# **EXECUTIVE SUMMARY**

# Mining of Minor Minerals on Agriculture Land at

BULLA Khasra No. - [19//17(8-0) 18(8-0) 23(8-0) 24(8-0) 1(7-0)10(8-0) 11 (8-0) 20(8-0)][22//4(8-0) 7/1(1-2) 7/2/1/1(5-16)7/2/2(0-9)3(8-0)] [20//6 (1-0) 16/1(2-15)][9//21(4-13) 22(6-19) 18/2(3-10) 23(7-7) & BERI QADRABAD Khasra No.- [50//25/(7-11),][ 51//21(1-19),] [53//5 (8-0)6(7-0)15(5-0)16(1-2),][52//1(1-0)] Hadbast No 163 & 162, Village- Beri Qadrabad & Bulla Tehsil-Zira.District-Ferozepur, Punjab.

> Area: 7.30 ha (Clusterarea) Production: 71,219 TPA

# **DRAFT REPORT**

# **Project Proponent**

Shri Harkesh Singh M/s Prime Vision Industries Pvt. Ltd. Add.-312, Third Floor, Vishal Chamber P-1, Sector 18, Noida, Uttar Pradesh-Pin Code – 201301.

**Environment Consultant:** 



CONSULTANT

P&M Solution C-88, Sector 65, <u>Noida</u> -201301 – U.P A QCI –NABET Accredited Organization



#### **EXECUTIVE SUMMARY**

#### **INTRODUCTION**

The project is proposed to mine sand in an area of 7.30 hectares for cluster of mines. The Mining sites are situated at Mining of Minor Mineral on Agriculture Land cluster area 7.30 ha. Located at Village- Beri Qadrabad & Bulla, Tehsil- Zira, District- Ferozepur, State – Punjab. As per MoEF&CC, New Delhi Gazette dated 14<sup>th</sup> September 2006 and its subsequent amendment thereof, the proposed mining project is categorized as **Category 'B1'** project. The clusters of mines are proposed by Shri Harkesh Singh M/s Prime Vision Industries Private Limited.

S No	Block	Area	Location	Production
		(Ha)		
			Village – BeriQadrabad	11279.4 TPA
1	Beri	1.60	Tehsil – Zira ,District –	
	Qadrabad	1.00	Ferozepur, State – Punjab.	
			Village– Bulla, Tehsil-	59939.26 TPA
2	Bulla	5 70	Zira, District-Ferozepur,	
		5.70	State-Punjab.	
Cluster Area		7.30		71,219 TPA

#### Detail of the applicants:-

Shri Harkesh Singh

M/s Prime Vision Industries Pvt. Ltd.

#312, Third Floor, Vishal Chamber P-1,

Sector 18, Noida, Uttar Pradesh-

Pin Code – 201301.

The Blocks falling in cluster have an area of 7.30 ha and ToR was issued by SEIAAPB vide letter no.SEIAA/2020/2003 Dated 08.09.2020.

S.no	Block No	Vide Letter No	TOR date
1	Beri Qadrabad &	SEIAA/2020/2003	08.09.2020
	Bulla		

The estimated project cost for the proposed project is given below:

S.no	Village	Total Cost	CER Cost
1	Beri Qadrabad	Rs9,77,585	Rs19551.7
2	Bulla	Rs51,90,740	Rs103814.8
	Total	Rs. 61,68,325	Rs123366.5

# **LOCATION**

The mine lease area is located in Village – BeriQadrabad& Bulla, Tehsil – Zira, District – Ferozepur, is on Khasra no  $[19//17(8-0) \ 18(8-0) \ 23(8-0) \ 24(8-0) \ 1(7-0)\ 10(8-0) \ 11 \ (8-0) \ 20(8-0)][22//4(8-0) \ 7/1(1-2) \ 7/2/1/1(5-16)\ 7/2/2(0-9)\ 3(8-0)] \ [20//6 \ (1-0) \ 16/1(2-15)][9//21(4-13) \ 22(6-19) \ 18/2(3-10) \ 23(7-7) \ \&$ Khasra No.-  $[50//25/(7-11),][\ 51//21(1-19),] \ [53//5 \ (8-0)\ 6(7-0)\ 15(5-0)\ 16(1-2),][52//1(1-0)] \ of Hadbast No \ 163 \ \& \ 162 \ covered in the Survey of India Topo Sheet No - 44I/16, \ 44M/4, \ 44N/1, \ 44J/6, \ 44J/7 \ and is bounded between the Latitude - \ 18^{\circ} \ 53' \ 05.80'' \ N to \ 18^{\circ} \ 53' \ 24.62'' \ N \ and \ Longitude - \ 84^{\circ} \ 08'\ 37.24'' \ E \ to \ 84^{\circ} \ 09' \ 27.05'' \ E.$ 

#### Site coordinates:

	S.N	Block No	]	Latitude/ Long	gitude
	1	Village : Bulla	Pillar No.	Latitude N	Longitude E
			А	31°0'57.76"	75°2'49.01"
			В	31°0'55.95"	75°2'48.97"
			С	31°0'55.95"	75°2'44.80"
			D	31°0'53.88"	75°2'44.31"
			Е	31°0'51.95"	75°2'44.06"
			F	31°0'49.67"	75°2'43.19"
			G	31°0'49.64"	75°2'43.94"
Coordinates			Н	31°0'47.67"	75°2'43.90"
			Ι	31°0'47.70"	75°2'42.60"
			J	31°0'47.19"	75°2'42.15"
			K	31°0'46.17"	75°2'43.56"
			L	31°0'46.11"	75°2'46.03"
			М	31°0'53.97"	75°2'46.43"
			Ν	31°0'54.06"	75°2'51.40"
			0	31°0'56.02"	75°2'51.34"
			Р	31°0'56.03"	75°2'50.14"
			Q	31°0'57.79"	75°2'50.22"
			R	31°0'48.10"	75°2'53.60"

		S	31°0'48.10"	75°2'48.60"
		Т	31°0'42.20"	75°2'48.60"
		U	31°0'42.20"	75°2'51.10"
		V	31°0'40.30"	75°2'51.20"
		W	31°0'40.30"	75°2'53.56"
2	Village : Beri	Pillar	Lotitudo N	Longitude
	Qadrabad	No.	Lautude N	E
		А	31°0'55.96"	75°2'40 99"
				75 2 40.77
		В	31°0'48.87"	75°2'41.05"
		B C	31°0'48.87" 31°0'46.79"	75°2'41.05" 75°2'41.84"
		B C D	31°0'48.87" 31°0'46.79" 31°0'48.54"	75°2'41.05" 75°2'41.84" 75°2'42.70"
		B C D E	31°0'48.87" 31°0'46.79" 31°0'48.54" 31°0'53.95"	75°2'41.05"   75°2'41.84"   75°2'42.70"   75°2'44.58"

#### **Connectivity:**

- Nearest Railway Station : Jogewal Railway Station (About 9.23 km in NE direction)
- Nearest Airport: Amritsar Airport (About 80 km in NE direction).
- Nearest Highway: SH-19(About 2.90 km in NE direction), NH-15 (About 6.4 km in SW direction)

#### Salient feature of the project

Name of Mine	Mining of Minor Minerals on Agriculture Land
Village	Beri Qadrabad & Bulla
Tehsil	Zira
District & State	Ferozepur & Punjab
Mineral	Sand from Agriculture land
Cluster Area (ha)	7.30 На

#### **MINING**

1) It shall be opencast Semi-mechanized mine.

2) Excavator (0.90 Cum), Scrapper, Loader shall be deployed for Excavation and loading of sand into Tractor/truck/Dumper.

- 3) Drilling & blasting will not be required.
- 4) Only 300 working days have been considered for the mining purpose.

5) The mining will go up to a depth of 3.0 m from the surface in the respective year and There after excavated area shall be levelling with the top soil to make it fertile and will be

used in agricultural purpose.

6) 3m area has been left for Buffer Zone although the sand will be transported from the pit head to the consumer but if needed in case of short demand in that case, the mineral will be stocked outside the mine lease in the mineral stocking yard for which permission will be granted by the district administration.

7) Adequate number of supervisors including duly qualified Foreman and Mining Mate shall be appointed in each working shift to assist the manager.

8) Mineral will be transported through Trucks/Dumper/Tractor.

9) No sand mining shall be done within 500m meter distance from any irrigation dams (check dams), French wells, erosion structure and bridge on national Highway. The sand is won from agriculture fields adopting mining and simultaneous reclamation method. The applicant (contractor) purchases/ (pays compensation for the land), from the farmers for short periods with the condition that the soil available as top layer of about 0.50 meters will be used for reclamation after sand is mined as per terms of contract.

10) No ore dressing/handling/processing plant shall be attached with the mine.

11) A mechanical engineer, foreman or other competent person will be appointed to look after any defect in any machinery; the said machinery shall not be used until the defect has been remedied.

12) Any machinery found to be in an unsafe operation condition shall be tagged at the operator's position 'out of service do not use'.

#### **Production Detail**

Village Name	Proposed Production(TPA)
Beri Qadrabad	11279.4 TPA
Bulla	59939.26 TPA
Total	71,219 TPA

#### SITE FACILITIES AND UTILITIES

Water Supply

Water Requirement for Cluster situation (Beri Qadrabad & Bulla)

S.No	Block No	Total Water Demand
		(KLD)
1	Beri Qadrabad	6.93 KLD ~ 7KLD
2	Bulla	6.97 KLD ~ 7 KLD

Total	13.9 KLD ~ 14 KLD

#### **Temporary Rest Shelter**

A temporary rest shelter will be provided for the workers near to the site for rest. In addition, First aid box will be made available at the site for emergency workers. Sanitation facility i.e. septic tank or community toilet facility will be provided for the workers. Mask and gloves will be distributed to theworkers.

## **BASELINE ENVIRONMENTAL STATUS**

Environmental data has been collected in relation to proposed mining for Air, Noise, Water, Soil, Flora& Fauna. The baseline environment study was carried out over an area with radial distance of 10 km around the mining lease area during winter season from October 2020 to December, 2020.

Attribute	Baseline status
Ambient Air Quality	Ambient Air Quality Monitoring reveals that the minimum & maximum
	Concentrations of PM <sub>10</sub> for all the 8 AQ monitoring stations were found
	to be $59\mu g/m^3$ at AQ8 and maximum $92.27\mu g/m^3$ at AQ4, respectively.
	The result of PM2.5 reveals that the minimum concentration of
	21.85 $\mu$ g/m3 at AQ3 while maximum concentration of 50.72 $\mu$ g/m <sup>3</sup> was
	found atAQ4.
	The gaseous pollutants SO2 and NOx were within the prescribed CPCB
	limit of 80 $\mu$ g/m <sup>3</sup> . For residential and rural areas at all stations. The
	minimum & maximum concentrations of SO2 were found to be
	$5.69\mu$ g/m <sup>3</sup> at AQ2&16.62 $\mu$ g/m <sup>3</sup> at AQ7 respectively. The minimum &
	maximum concentrations of NOx were found to be $7.77 \mu g/m^3$ at
	AQ8&26.48 µg/m3at AQ1respectively.
Noise Levels	Noise monitoring was carried out at 8 locations. The results of the
	monitoring program indicated that both the daytime and night time levels
	of noise werewellwithin the prescribedlimits of NAAQS, at all the six
	locations monitored.

#### **Table Baseline Environmental Status**

Water Quality	7 Groundwater samples were analyzed and concluded that:
	The ground water from all sources remains suitable for drinking purposes as all the constituents are within the limits prescribed by drinking water standards promulgated by Indian Standards IS: 10500.
Soil Quality	Samples collected from identified locations indicate the soil is sandy type and the pH value ranging from 7.28to 7.87, which shows that the soil is alkaline in nature. Potassium is found to be from 235.20mg/kg to 283.20mg/kg. The water holding capacity is found in between 32.00 % to 45.10%.
Ecology and Biodiversity	There are no ecologically sensitive areas present in the study area.

## ANTICIPATED ENVIRONMENTALIMPACTS

#### **Impact on Air Environment**

The proposed mining activities loading and movement of other transport vehicles used in mining will generate dust (SPM/RSPM). Proper water sprinkling shall be carried out at the mine site. The mineral will be transported by road through covered tarpaulin trucks/tippers to reduce the fugitive emission caused by thewind.

#### **Impact on Water Environment**

**Impact on surface water bodies**- The main drainage of the area is through seasonal water courses situated nearby lease area. There will be no change & no diversion will be required. There is no toxic element in and around the applied area.. Hence contamination of any nature is not expected for surface water source.

#### Impact on ground water table-

The lease area is flat and working proposed much above ground water table. The water will be clear devoid of and toxic contamination. The total solids may be on higher side due to suspended as well as dissolved solids.

No dewatering is proposed in view of working proposed much above ground water table and hilly terrain of the ML area.

#### **Impact on Land Environment**

The proposed activity shall take place in the gata (s) there will be no change in land use as after completion of mining top soil 10800 Tonne shall be spread it on completed gatas to restore the fertility of land in Village Beri Qadrabad.

The proposed activity shall take place in the gata(s) there will be no change in land use as after completion of mining top soil 39757.5 Tonne shall be spread it on completed gatas to restore the fertility of land in Village Bulla.

#### **Impact on Noise Environment**

The proposed mining activity is semi-mechanized in nature. No drilling & blasting is envisaged for the mining activity. Hence, the only impact is anticipated is due to movement of vehicles deployed for transportation of minerals. The vehicles will be maintained in good running condition so that noise will be reduced to minimum possible level.

#### **Impact on Biological Environment**

Mining which leads to the removal of channel substrate, re-suspension of streambed sediment and stockpiling on the streambed, will have ecological impacts. These impacts may have an effect on the direct loss of stream reserve habitat, disturbances of species attached to streambed deposits, reduced light penetration, reduced primary production, and reduced feeding opportunities. Sand mining generates additional traffic, which negatively impairs the environment.

#### **Impact on Socio Economic Environment**

The impact of mining activity in the area is positive on the socio-economic environment of the region. Sand mining will be providing employment to local people whenever there is requirement of manpower.

S.No.	<b>Description of Parameters</b>	Schedule of Monitoring
1	Air Quality	24 hourly samples twice a week for one month in each season except monsoon
2	Water Quality (Surface &Groundwater)	Once a season for 4 seasons in a year

## POST PROJECT ENVIRONMENTAL MONITORING

3	Soil Quality	Once in a year in project area
4	Noise Level	Twice a year for first two years & then once a
		year
5	Socio-economic Condition	Once in 3 years
6	Plantation Monitoring	Once in a season

#### **ADDITIONAL STUDIES**

#### **Public Hearing**

This is draft EIA report, Public hearing yet to conduct.

#### **Risk Assessment**

The complete mining operation will be carried out under the management control and direction of a qualified mine manager holding. The DGMS have been regularly issuing standing orders, model standing orders and circulars to be followed by the mine management in case of disaster, if any. Moreover, mining staff will be sent to refresher courses from time to time to keep them alert.

#### **Disaster Management Plan**

Emergency preparedness is an important aspect in the planning ofDisaster Management. Personnelwould be trained suitably and prepared mentally and physically in emergency response throughcarefully planned, simulated procedures. Similarly, the key personnel and essential personnel shall be trained in theoperations.

#### **PROJECT BENEFITS**

**Physical Benefits:** Road Transport, Market, Enhancement of green cover & Creation of community assets.

**Social Benefits:** Increase in Employment Potential, Contribution to the Exchequer, Increased Health related activities, Educational attainments & Strengthening of existing community facilities.

#### **Environmental Benefits:**

- Reducing submergence of adjoining agricultural lands due toflooding.
- ➤ A check on illegal mining activity.
- > The mining of sand will lead to increase in futility of land for agricultural purposes.

# CORPORATE SOCIAL RESPONSIBILITY

A percentage of the project cost will be allotted for the Corporate Social Responsibility for activities related to education, social causes, healthcare & environmental.

## **Budget for Corporate Environmental Responsibility (CER)**

#### for Village Beri

S. No	Activities	Fund in Rs/ year (Capital Cost in Rs)
1	Distribution of Sanitizer, gloves and Mask to the nearby village and panchayat.	19551.7
	TOTAL	<b>Rs</b> 19551.7

# Budget for Corporate Environmental Responsibility (CER) for Village Bulla

S. No	Activities	fund in Rs/ year (Capital Cost in Rs)
1	Health awareness and medical camps for local community in nearby village and panchyat.	73,814.8
2	Distribution of Sanitizer, gloves and Mask to the nearby village and panchyat.	30000
	TOTAL	<b>Rs</b> 103814.8

**CER** Cost for the cluster situation= Rs123366.5

# ENVIRONMENTAL MANAGEMENT PLAN (EMP)

- Extraction will be done from the bed leaving safety zone frombank.
- The maximum working depth will remain above ground water table of thearea.
- Provide health facilities to the workers & surrounding people in the impact area to reduce the healthimpacts.
- Ensuring wildlife protection & arranging awareness campaigns for thesame.
- Effective mitigation measures will be adopted to minimize disturbance during

transportation & handling of minerals

- Establishment of reclamation program with plantation of local/native & fast growing species
- Establishment of restoration plan during the closure of mine at the onset of monsoon season.
- Establishment of effective Disaster Management Plan to take timely precautionary measures to avoid effects of impendingdisasters.Establishment of effective Monitoring Program monitored by Environment Management Cell.

# **BUDGET ALLOCATION FOR EMP IMPLEMENTATION**

Sl. No	Description	Capital Cost (lakh)	Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil	1.0
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil pollution iv) Noise Pollution		1.0
3	Plantation and salary for one gardener (part time basis).	0.16	0.6 (gardener)
4	Haul road Maintenance Cost	2.5	1.6 (Labor charge)
	TOTAL	2.66	4.2

#### Budget of EMP for Village Beri Qadrabad

Note: \*16 plants \* 1000 Rs (for each plants including hedges and fences) = 16000

- Salary of Labour for haul road maintenance 2 labor\*300=600 per day
- 600\* 270= 162000 or 160000/-
- \* 2.5 lakh per kilometer (250000 \*1 km haul road = 2,50,000/-

SI. No	Description	Capital Cost (lakh)	Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil	1.0

## **Budget of EMP Budget for Village Bulla**

2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Soil pollution iv) Noise Pollution		1.0
3	Plantation and salary for one gardener (part time basis).	0.60	0.6 (gardener)
4	Haul road Maintenance Cost	2.5	1.6 (Labor charge)
TOTAL		3.10	4.2

Note: \*60 plants \* 1000 Rs (for each plants including hedges and fences)= 60000

- Salary of Labour for haul road maintenance 2 labor\*300=600 per day
- 600\* 270= 162000 or 160000/-
- 2.5 lakh per kilometer (250000 \*1 km haul road = 2,50,000/-

# **Budget of EMP Budget for cluster**

	Capital Cost (lakh)	<b>Recurring Cost (lakh)</b>
Village Beri Qadrabad	2.66	4.2
Village Bulla	3.10	4.2
Total	5.76	8.4

#### **CONCLUSION**

Based on the EIA study it is observed that there will be an increase in the dust pollution, which will be controlled by sprinkling of water and plantation. There will be an insignificant impact on ambient environment and ecology due to the mining activities moreover the mining operation will lead to direct and indirect employment generation in the area. Green belt development around the area will also be taken up as an effective pollution mitigative technique, as well as to control the pollutants released from the premises of the Mine. Monitoring program will be followed till the mining operations continue. Hence, it can be summarized that the development of the mine will have a positive impact on the socio-economic environment of the area and lead to sustainable development of theregion.

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