

**SUMMARY OF THE MINERAL LIMESTONE BLOCK HPB-21**  
**PART A – GENERAL INFORMATION ABOUT MINERALBLOCK**

	Features	Details				
<b>1.</b>	<b>Location</b>	<b>N/v Khetolaw, Sarasani, Somna Tehsil Nagaur &amp; Deh, District- Nagaur</b>				
	Mineral Block	<b>HPB-21 Limestone Block N/v Khetolaw, Sarasani, Somna Tehsil Nagaur &amp; Deh, District- Nagaur</b>				
	Corners point (Latitude & Longitude)	<b>POINTS</b>	<b>LATITUDE</b>	<b>LONGITUDE</b>		
		L1	27°14'5.3506"	73°54'29.6374"		
		I1	27°14'11.8498"	73°54'29.574"		
		X1	27°14'36.9746"	73°54'42.9049"		
		O1	27°15'16.8258"	73°55'4.0500"		
		N1	27°15'7.0770"	73°55'4.1443"		
		M1	27°15'7.3568"	73°55'40.5041"		
		B'	27°14'5.9086"	73°55'42.0786"		
	Villages	<b>Harima, Sarasani &amp; Somna</b>				
	Tehsil / Taluka	<b>Nagaur &amp; Deh</b>				
	District	<b>Nagaur</b>				
	State	Rajasthan				
<b>2.</b>	<b>Area (hectares/square kilometres)</b>	307.1141 Hectare				
	Mineralised Area	307.1141 Hectare				
	Non-mineralised Area	NIL				
<b>3.</b>	<b>Exploration</b>					
	Status (G2/G3/G4 etc.)	G-2				
	Exploration Agency	Department of mines & Geology, Rajasthan				
	Total Number of Boreholes with meterage	A total of 13 holes drilled in the study area & influence of 13 drill hole was considered for estimating the resources on the basis of polygon method of 13 drill holes falls within the block. Depth of the borehole varies from 6 to 53 m. Total meterage of drilling in the 13 boreholes is 590.8 m.				
	Borehole Spacing (Density)	The boreholes were drilled closely spaced at 400 X 400 m regular grid pattern except some of the bore holes which were shifted due to crops in the agriculture field. The limestone deposit of the area is of regular habit, thus it falls under G-2 (332) category, as per Part III of The Minerals (Evidence of Mineral Contents) Rules, 2015.				
<b>4.</b>	<b>Quantity of Minerals (Grade-wise)</b>					
	Mineral	<b>Limestone</b>				
		<b>Grade of Limestone</b>	<b>Net Geological Resources (In Million tons)</b>	<b>Wt. Average CaO%</b>	<b>Wt. Average MgO%</b>	<b>Wt. Average SiO<sub>2</sub>%</b>

		<b>Limestone (CaO &gt;34%, MgO &lt;5.00% SiO2 &lt;16% wt.average %)</b> 108.96      47.08      3.4      4.1
		<b>Total</b> <b>108.96 M.T.</b>
	Total Geological Resources	A total geological resource of <b>HPB-21 block is 108.96 mT with an average grade of CaO 47.08 %, SiO2 4.1%, and MgO 3.4%</b> has been estimated in the block based on cumulative thickness of limestone intersected in each borehole and chemical analysis received.
<b>5.</b>	<b>Mineralised Zones</b>	
	Number of Mineral Zones	1 to 7
	Trend (Dip and Strike)	The nature of limestone deposit is of sedimentary stratiform is trending almost N-S with rolling dip.
	Total Thickness	Cumulative thickness of mineralized zone is 1.5 to 24.96 mts.
<b>6.</b>	<b>Accessibility</b>	
	Nearest Rail Head	Nagaur (18 kms)
	Road	The block is located 1 km South of Harima village. The area lies at around 18 kms NE of Nagaur town on Nagaur-Ladnun N.H 65. The area lies at around 18 kms NE of Nagaur town on Nagaur-Ladnun N.H 65. The investigated area is well connected by tar road.
	Airport	Nagaur (18 kms)
<b>7.</b>	<b>Hydrography</b>	
	Local Surface Drainage Pattern (Channels)	No perennial river originates or flows from this part of investigated area.
	Rivers/Streams	Seasonal nallas, ponds etc. are available in the area, which fulfils the water requirement along with recent developed tube wells and dug wells.
<b>8.</b>	<b>Climate</b>	
	Mean Annual Rainfall	Min. 270 max. 410.0 Avg. 393
	Temperatures (December)	1 <sup>0</sup> C min.
	Temperatures (June)	50 <sup>0</sup> C max. recorded
<b>9.</b>	<b>Topography</b>	
	Toposheet No.	45E/15 and 45E/16
	Morphology of the area	The area is almost plain with small mounds and knolls. The area shows a plain topography with scanty and scattered outcrops of limestone which are partially concealed under windblown sand and at some places with agriculture farm soil. Most of the limestone exposures are on ground level except some low to moderate high linear isolated mounds.

**PART B – PARTICULARS OF STATUTORY LICENSES, PERMITS,  
PERMISSIONS, CONCESSIONS, APPROVALS AND CONSENTS  
RELATED TO MINING OPERATIONS**

<b>S.N.</b>	<b>Particulars</b>	<b>Details/Status</b>
1	Forest Clearance	To be obtained by the successful Bidder
2	Wildlife clearance (sanctuary, reserve or special zone clearances)	
3	Environment clearance	
4	Mining Plan Approval	
5	Consent to establish	
6	Explosive license	
7	Permission for mining opening	
8	Permission of installation/trial operation of equipment	
9	Ground water clearance (Centre/State)	
10	Railway siding approval	
11	Approval for diesel storage	
12	Power line from State Discom	
13	Clearances relating to work under an existing transmission line or shifting of the transmission line	
14	GramaSabha consent	
15	Any other clearances to start mining operation	

**PART C – PARTICULARS OF LAND**

	<b>LAND TYPE</b>	<b>Area (in. Hectares)</b>
1.	Total Concession Area	306.6941
2.	Forest Land with status	NIL
3.	Government Land with status	25.2014
4.	Charagah Land with status	68.7944
5.	Private Land with status	212.6983
6.	Revenue survey details of the Area	Available

**Note:**

- ❖ The variation in the total block area (307.1141 hectare) and area calculated by superimposition of block on revenue record (306.6941 hectare) is due to partial Khasras falling in the block and also due to differences of area in digitized settlement sheet and revenue record.
- ❖ The cadastral Khasra detail of the block verified by concerned Patwari & Tehsildar is enclosed with the report.
- ❖ Total area has been calculated based on area falling within the coordinates but when superimposed on revenue map, slightly it may differ being both on different projections, one is spherical and other is linear.