

1. Preliminary Exploration for (G3 stage) limestone in Indroi-Mandor Block , Gir Somnath District, Gujarat
[Implementing Agency- CGM Gujarat]

	Features	Details			
	Block ID	CGM/NMET/Limestone/09/2024-25			
	Exploration Agency	Commissioner of Geology & Mining, Gujarat			
	Previous Exploration Agency	Commissioner of Geology & Mining, Gujarat			
	Previous Stage Geological Report	<p>D.D Patel & B. A Amin carried out detailed exploration in 1984-1985 for chemical grade limestone by drilling around villages of Savni, Bherala, Manor, Isaiah, Indroi and Navadra of Veraval Taluka, Junagadh district in the field season 1984-85</p> <p>Total 123 bore holes were drilled & as a result of drilling 25.35 million tons of chemical grade limestone reserves are proved out of total reserves of 82.57 million tones.</p> <p>J.V. Bhatt and B.S. Nardhamuni, 1971-72 recommended that good grade limestone is light and fine-grained and with solution holes, in wet drilling it has given poor recovery so in future if drilling is resorted to for detail assessment it is advisable to go for dry drilling. All the chemical grade limestone pockets should be marked for the industrial use.</p>			
	Commodity	Limestone			
	Mineral Belt	Miliolite Formation /Fossiliferous Limestone			
	Completion Period with entire Time schedule and cost	<p>08 months (Review : After 4 months)</p> <p>73.84 lakhs</p>			
	Objectives	To assess & identify qualitative and quantitative mineral resource of Limestone mineral at G3 stage in the proposed block area.			
	Whether the work will be carried out by the proposed agency or through outsourcing and details thereof. Components to be outsourced and name of the outsource agency	The entire work will be carried out through Gujarat Mineral Research & Development society (GMRDS) working under Industries & Mines Department Government of Gujarat.			
	Name/ Number of Geoscientists	Geologist: 1 (Field) + 1(HQ)			
	Expected Field days (Geology) Geological Party Days	<p>90 days: Field Geologist</p> <p>60 days: HQ Geologist</p> <p>30 days: Surveyor</p>			
1.	Location				
	Latitude and Longitude	Block corner points	Latitude	Longitude	
		1	20°56'39.8 8"N	70°29'45.9 7"E	
		2	20°56'54.3	70°28'27.3	

			8"N	0"E	
		3	20°59'19.5 7"N	70°29'36.0 7"E	
		4	20°59'55.0 3"N	70°30'39.3 4"E	
	Villages	Indroi, Mandor, Pandva, Gabha, Bolas			
	Tehsil/ Taluk	Veraval			
	District	Gir Somnath			
	State	Gujarat			
2.	Area (hectares/ square kilometers)				
	Block Area	1019 Hectares			
	Forest Area	Nil			
	Government Land Area	NA			
	Private Land Area	NA			
3.	Accessibility				
	Nearest Rail Head	Veraval railway station – 14.00 km			
	Road	NH 51 – 6.00 km			
	Airport	Diu airport – 53.00 km			
4.	Hydrography				
	Local Surface Drainage Pattern (Channels) / Rivers/ Streams	Sub-parallel Pattern, Small nallas presents in the area.			
5.	Climate				
	Mean Annual Rainfall	824 mm			
	Temperatures (December) (Minimum) Temperatures (June) (Maximum)	Minimum – 16° C Maximum – 43° C			
6.	Topography				
	Toposheet Number	41L/05 41L/9			
	Morphology of the Area	The proposed area is generally covered by dry barren and agricultural fields. The topography of the proposed region is looking gently slope toward North - south-west direction. The elevation of the area ranges from 42mts to 69 mts above mean sea level.			
7	Availability of baseline geosciences data				
	Geological Map (1:50K/ 25K)	Plate-1			
	Geochemical Map	Not available			
	Geophysical Map	Not available			
8.	Justification for taking up G-3 or G-2 Stage mineral Exploration	A part of the nearby area was previously explored by CGM through drilling in 1984-85 & 1986-87 which prove positive result of limestone, so this area can be studied to evaluate the extent and quality of limestone reserves in the proposed area.			

		<p>Lithology of the target area have milliolic limestone deposit, these deposits have very less overburden and occurred in form of low ridges and low mounds. So, it can be easily minable deposit.</p> <p>CGM have collected 07 grab samples during the recent geological travers survey of CGM geologist, the analysis results of these samples indicated Cao% from 47.67 % to 54.88%.</p> <p>Exploration increases the level of confidence on quantity and quality of reserve/ resource which will attract the investors. Hence based on the lithology and previous exploration report, the block is suggested for G3 level of exploration for limestone.</p>
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