2. Preliminary Exploration for (G 3 Stage) Limestone in Harnasa-Umbri 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 & Min	ing, Gujarat	
	Previous Stage Geological Report	The area of 200 sq.kms. Between Kodinar and Veraval was mapped by Rao U.D.G. (1965-66), on a scale of 1:10,000. He found that limestone had variable thickness and have intervening layers of marl, murram etc. These limestones are not deposited under similar conditions but there had been many transgressions and regressions of the sea during the period of formation of these deposits. R.N. Goswami (Field Season – 1969-70) has done the drilling work near the proposed region. A total of 650.87 meters of actual drilling was done for these 30 numbers of boreholes. The limestone occurs in borehole suggesting a high-grade limestone is deposited in the region.			
	Commodity	Limestone			
	Mineral Belt	Miliolite Formation			
	Completion Period with entire Time schedule and cost	08 months (Review : After 4 months) 77.91 lakhs			
	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	90 days: Field Geologist			
	Party Days	60 days: HQ Geologist 30 days: Surveyor			
1.	Location				
	Latitude and Longitude	Block corner points 1	Latitude 20°52'14.3	Longitude 70°29'17.2	

			6"N	8"E	
		2	20°53'7.52"	70°29'16.6	
			N	5"E	
		3	20°53'10.9 9"N	70°32'3.49" E	
		4	20°52'6.00" N	70°32'18.4 2"E	
	Villages	Harnasa, Umbri, sundarpara			
	Tehsil/ Taluk	Sutrapada Gir Somnath			
	District				
	State	Gujarat			
2.	Area (hectares/ square kilometers)				
	Block Area	915 Hectares			
	Forest Area	Nil			
	Government Land Area	NA			
	Private Land Area	NA			
3.	Accessibility				
	Nearest Rail Head	Veraval railway station – 12.00 km		cm .	
	Road	NH 51 – 2.00 k	m		
	Airport	Diu airport – 43	3.00 km		
4.	Hydrography				
	Local Surface Drainage Pattern (Channels) /	Sub-parallel Pattern,			
		Small nallas presents in the area.			
F	Rivers/ Streams				
5.	Climate	004			
	Mean Annual Rainfall	824 mm Minimum – 16°	•		
	Temperatures (December) (Minimum)	Wilnimum – 16°	C		
	Temperatures (June) (Maximum)				
•		Maximum – 43° C			
6.	Topography	441 /0 441 /05			
	Toposheet Number	41L/9 41L/05			
	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 eastwest direction. The elevation of the area ranges from 27mts to 38 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			s previously explored 71-1972 which prove	

mineral Exploration	positive result of limestone, so this area can be studied					
•	to evaluate the extent and quality of limestone					
	reserves in the proposed area					

- CGM have collected 06 grab samples during the recent geological travers survey of CGM geologist, the analysis results of these samples indicated Cao% from 52.41 % to 55.42 %.
- Lithology of the target area have milliolitic 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
- The proposed block is surrounded by the existing working Limestone leases, so this area can be studied as an extension of the already existing mineable deposits.
- Thus, the block is suggested for G3 level of exploration.