

Reconnaissance Survey (G4 Stage) for Iron ore exploration in Yaparlapadu & Dhone Area, Kurnool & Nandyal Districts, Andhra Pradesh State.

Summary of the Block

	Features	Details
	Block ID	CMT/NMET/G4-017/2025
	Exploration Agency	CRITICAL MINERAL TRACKERS
	Commodity	Iron ore (Fe)
	Mineral Belt	Cuddapah Basin
	Completion Period with entire Time schedule to complete the project	Ten Months
	Objectives	G4 - Investigation of Iron ore
	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	Most of the work will be carried out by the Critical Mineral Trackers, however chemical analysis and drilling will be outsourced to NABL accredited agencies
	Name/ Number of Geoscientists	2 Senior Geologists 2 Junior Geologists
	Expected Field days (Geology) Geological Party Days	180 days 90 days
1.	Location (Decimal Degree)	
	Latitude	A)15.6646, B)15.5875, C)15.4150, D)15.4324, E)15.5710, F)15.6325.
	Longitude	A)78.0052, B)78.1264, C)78.0181, D)78.9906, E)78.0768, F)78.9906

	Villages	Pullagummi, Bukkapuram, Kalugotla, Krishnapuram, Mallavan Palle, Venkatagiri.
	Mandal	Kallur, Dhone
	District	Kurnool & Nandyal
	State	Andhra Pradesh
2.	Area (hectares/ square kilometres)	
	Block Area	133 Sq. Km
	Forest Area	Partly under forest cover
	Government Land Area	Not Known
	Private Land Area	Not Known
3.	Accessibility	
	Nearest Rail Head	Dhone
	Road	Dhone
	Airport	Uyyalawada Narashimha Reddy Airport, Kurnool
4.	Hydrography	
	Local Surface Drainage Pattern (Channels)	Parallel to Sub-Parallel
	Rivers/ Streams	Tungabhadra River
5.	Climate	
	Mean Annual Rainfall	840 mm Average
	Temperatures (December) (Minimum) (June) (Maximum)	12°C 46°C
6.	Topography	
	Toposheet Number	In parts of SOI toposheets: 57E/14,15 & 571/02,03
	Morphology of the Area	Undulatory topography
7	Availability of baseline geoscience data	
	Geological Map (1:50K/ 25K)	Available
	Geochemical Map	Available
	Geophysical Map (Aeromagnetic, ground geophysical, Regional as well as local scale GP maps)	Not Available

8	Justification for taking up Reconnaissance Survey / Regional Exploration	<p>As per the literature referred, the study area has high grade deposits of specularite and hematite along a major fault zone and sympathetic fractures, in rocks of Cuddapah Supergroup and Kurnool Group in and around Veldurthi-Ramallakota area with a grade ranging from 50 to 60% Fe.</p> <p>Field visit in the proposed block indicated that several iron ore working mines are in the surrounding areas and most of the iron ore occurrences are along the Gani Kalva Fault zone and its sympathetic fractures. The proposed block is also in the similar geological setting.</p> <p>Based on the information gathered from the earlier works of GSI and existing iron ore mines in the surrounding area, the geologists of Critical Mineral Trackers have undertaken few reconnoitry traverses and collected random samples from the block. Chemical analysis of those samples have given encouraging results with Fe values to a maximum of 57.42%. During the field visits before submitting the proposal, around 20 samples of iron ore have been collected from the block covering both Dhone, Yaparapadu and in between areas. The analytical results are very encouraging and the values of Fe₂O₃ are upto maximum of 80.88% in the Yaparlapadu and Fe values upto a maximum of 55.25% in Dhone area. One sample has analysed 98.86% of Fe₂O₃. This prompted us to take up this area for G4 investigation.</p>
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