

Jasai-Para block

[Implementing Agency - FCI Aravali Gypsum and Minerals India Ltd.]

	Features	Details
	Block ID	Jasai-Para block
	Exploration Agency	FCI Aravali Gypsum and Minerals India Ltd.
	Previous Exploration Agency	N/A
	Previous Stage Geological Report	N/A
	Commodity	REE mineralization
	Mineral Belt	Malani Igneous Suite
	Completion Period with entire Time schedule and cost	10 months
	Objectives	<p>The objectives of the current program are:</p> <ol style="list-style-type: none">1. To prepare a Geological map at a 1:12,500 scale to delineate the REE-bearing host rock (mainly carbonatite flow), its structural features, and lateral extension.2. To collect bedrock and pit/trench samples for REE content through chemical analysis and evaluate the block for further course of action.3. To delineate the dykes and veins of alkaline rocks through pitting and trenching. <p>To evaluate the block for the possibility of upgrading it to G-3 and facilitate the Central Government in auctioning the block.</p>

	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 work will be carried out by the proposed agency.															
	Name/ Number of Geoscientists	3 (2 Field Geoscientists and 1 HQ Geoscientist)															
	Expected Field days (Geology) Geological Party Days	150															
1.	Location	The proposed block area partly falls under Survey of India Toposheet numbers 40O/02, in and around the villages of Jasai, Para, and Sanwlor, in Tehsil-Barmer, District-Barmer, Rajasthan.															
	Latitude and Longitude	Coordinates of Corner Points of Jasai-Para Block <table border="1"> <thead> <tr> <th>Points</th><th>Latitude</th><th>Longitude</th></tr> </thead> <tbody> <tr> <td>A</td><td>25°42'50.49"N</td><td>71°10'48.00"E</td></tr> <tr> <td>B</td><td>25°32'55.60"N</td><td>71°10'39.55"E</td></tr> <tr> <td>C</td><td>25°32'55.51"N</td><td>71°14'48.48"E</td></tr> <tr> <td>D</td><td>25°42'50.77"N</td><td>71°14'58.63"E</td></tr> </tbody> </table>	Points	Latitude	Longitude	A	25°42'50.49"N	71°10'48.00"E	B	25°32'55.60"N	71°10'39.55"E	C	25°32'55.51"N	71°14'48.48"E	D	25°42'50.77"N	71°14'58.63"E
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	Villages	Jasai, Para, Sanwlor															
	Tehsil/ Taluk	Barmer															
	District	Barmer															
	State	Rajasthan															
2.	Area (hectares/ square kilometers)																
	Block Area	128 sq.km															
	Forest Area	32.5 sq. km forest area															
	Government Land Area	Data not available															
	Private Land Area	Data not available															
3.	Accessibility																
	Nearest Rail Head	Jasai Railway station is 2.4 km far from the Jasai village via Jasai Bypass Rd.															

	Road	The Jasai area is located 20.8 km west of Barmer via Jasai Bypass Rd and NH25. Motorable metaled roads are available in the area.
	Airport	Jaisalmer (Rajasthan) which is 184.9 km from this block via NH 68.
4.	Hydrography	
	Local Surface Drainage Pattern (Channels) / Rivers/ Streams	<p>The general slope of the block is southernly. Few Nullahs/surface runoff flowing in the southern direction. The watercourses are ephemeral in nature.</p> <p>Regionally, this area is drained by the Luni River, which flows from Ajmer and passes through Jodhpur, Samdari, Balotra, Barmer, Jalor, and eventually disappears at the Rann of Kutch in Gujarat. The Luni River is also ephemeral, flowing only in response to heavy precipitation. During drought years, there is no runoff.</p>
5.	Climate	
	Mean Annual Rainfall	The mean annual rainfall is 307.7 mm.
	Temperatures (December) (Minimum)	Minimum temperatures upto 2 ⁰ C (Jan)
	Temperatures (June) (Maximum)	Maximum temperatures upto 48 ⁰ C (May-June)
6.	Topography	
	Toposheet Number	40O/02
	Morphology of the Area	The topography is undulatory, hills are present within the block. The altitude varies from 185 m to 565 m. The block consists of an alluvial cover with exposures of Rhyolitic and granitic rocks.
7	Availability of baseline geosciences data	
	Geological Map (1:50K/ 25K)	Available
	Geochemical Map	Available
	Geophysical Map	Not available

8.	<p>Justification for taking up G-3 or G-2 Stage</p> <p>mineral Exploration</p>	<p>i) Aranha et al. (2021) compiled the geological, structural, magnetic, ground gravity, bouger gravity, SRTM, and structural map to generate REE prospective zone. They reported the Danta-Langera-Mahabar area is highly prospective for REE mineralization as carbonatite veins/dykes might have been present in this area.</p> <p>ii) During FS 2018-19, GSI conducted geochemical mapping in Barmer district, Rajasthan, as part of the National Geochemical Mapping Program (NGCM). Alkaline rocks, including carbonatites from the Sarnu-Dandali complex, were identified as having potential REE mineralization and MECL found the Sarnu area perspective for REE mineralization. The present block is situated approx. 51 km west of the Sarnu block and shows similar types of dyke intrusion within the granitic/rhyolitic flow.</p> <p>iii) Based on the above research work, FAGMIL proposed the Jasai-Para block to carry out detailed geological mapping and delineate the REE mineralized zone in this area.</p>
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