

7. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra

Implementing Agency: Geo Marine Solutions Private Limited

	Features	Details
	Block ID	GEMS_Patgaon_Baux_MH_02
	Current Exploration Agency	Geo Marine Solutions Pvt. Ltd., Mangalore
	Previous Exploration Agency	GSI
	G4 stage Geological Report	Report on reconnaissance survey for bauxite and aluminous laterite in Phanasgoan area, Sindhudurg district, Maharashtra (Stage-G4): ITEM No. M2ASMIF - MEP/NC/CR/SU-MH-PUN/2023/45605; FIELD SEASON: 2023-24
	Commodity	Bauxite, Vanadium, Gallium and associated minerals
	Mineral Belt	Bauxite Vanadium and Gallium formed by lateritization of deccan trap Basalt
	Completion Period with entire Time schedule to complete the project	Mobilization: Two months from issue of work order/LOA. Field work : 8 months Analysis : 6 months (overlapping with Drilling) Report : 4 months
	Objectives	To understand the surficial distribution and downward continuity of Vanadium and Gallium - bearing Bauxite by drilling at 400m x 400m grid over an area of 7.0 sq.km, where there is a thick laterite/ bauxite up to 15.0-20.0m below ground level.
	Whether the work will be carried out by the proposed agency or through	The NABET accredited exploration agency (Geo Marine Solutions Pvt Ltd., Mangalore) will be carrying out all the components of the proposed
	outsourcing and details thereof.	exploration. The chemical analysis will be done at NABL accredited lab.
	Name/Number of Geoscientists	2 Geologists plus 1 Surveyor plus 1 driller
	Expected Field Months (Geology)	8 months including mapping and drilling
1.	Location	Patgaon Block
	Latitude	16°27'19.83"N
	Longitude	73°32'52.75"E

	Village	Patgaon
	Tehsil/Taluk	-
	District	Sindhudurg dist.
	State	Maharashtra
2.	Area (hectares/square kilometers)	
	Block Area	7.0 Sq.Km
	Forest Area	NIL
	Government Land Area	NIL
3.	Accessibility	
	Nearest Rail Head	Kankavali Railway Station
	Road	Mumbai-Goa Highway (NH-66)
	Airport	Sindhudurg Airport
4.	Hydrology	
	Local Surface Drainage Pattern (Channels)	Patgaon block is situated in the South of Vaghotan river.
	Rivers/Streams	Vaghotan river.
5.	Climate	
	Mean Annual Rainfall	3250 mm
	Temperatures (December)(Minimum) Temperatures (June)(Maximum)	The area experiences semi tropical climate. The weather remains warm and humid in most part of the year. The minimum and maximum temperatures are 12°C and 40°C respectively
6.	Topography	
	Toposheet Number	Toposheet No. 47H/11
	Morphology of the area	Regionally, the landuse is controlled by the geomorphology of the area. Some part is under agricultural usage and human settlement while remaining part (mostly plateau) is either barren or covered with plantation and shrubs.
7.	Availability of baseline geoscience data	
	Geological Map (1:50K/25K)	The proposal is based on the published literature mentioned in the reference. Geological inputs pertaining to the area falling in 47H/11 are available and referred while preparing the write up.
	Geochemical Map	Geochemical inputs in soil regolith pertaining to the area falling in 47 H/11 are available and referred while preparing the write up.
	Geophysical Map (Aero-geophysical, Ground geophysical, Regional as well as local scale GP maps)	N.A
8.	Justification for taking up G3 level Mineral Exploration	

	Based on the Report on reconnaissance survey for bauxite and aluminous laterite in Phanasgoan area, Sindhudurg district, Maharashtra (Stage-G4): ITEM No. M2ASMIF - MEP/NC/CR/SU-MH-PUN/2023/45605; FIELD SEASON: 2023-24.
--	--

	NOC issued by CGM, Maharashtra to Geo Marine Solutions Pvt Ltd, to undertake exploration in the block
--	---