

2. Preliminary Exploration for (G-3 Stage) Limestone in Bhari Limestone Prospecting Block

[Implementing Agency- DGM Maharashtra]

	Features	Details
	Block ID	DGM/ROC/BHL/G3/2025-26/01
	Current Exploration Agency	Directorate of Geology and Mining, Regional office, Chandrapur, Government of Maharashtra
	Previous Exploration Agency	Directorate of Geology and Mining, Regional office, Chandrapur, Government of Maharashtra
	G4 stage Geological Report	<ul style="list-style-type: none"> A Geological Report on General Exploration for Limestone Deposit in Chedvai Area (G2 Stage) Tahsil: Jiwati, District: Chandrapur Field Season 1976-85 (Toposheet No. 56 M/2 & 56 M/3) DGM Regional Office Reconnaitory survey during F.S. 2024-25
	Commodity	Limestone
	Mineral Belt	P-G Valley, Penganga Group Limestone
	Completion Period with entire time schedule to complete the project	15 months
	Objective	<ol style="list-style-type: none"> To delineate the surface outcrop of limestone, Deccan trap sandstone and shale. By geological mapping in 1:5000 scale with exploratory drilling. To drill the limestone body (10 boreholes) on definite grid pattern as per MEMC rules 2015 to decipher its depth persistent, subsurface continuity and to establish the different zones of good quality limestone. To estimate the insitu resources of different grade of limestone for G3 stage of exploration (333), and preparation of Geological Report (GR). Carry out mineral exploration works as per Minerals (Evidence of Mineral Contents) Rule-2015, MEMC amendment rule 2021, Mineral (Auction) Rules-2015 and MMDR Amendment act-2015. In turn to facilitate the Government of Maharashtra in auctioning of the block.
	Whether the work will be carried out by the proposed agency or through outsourcing and details there of	Entire work to be carried out by DGM Maharashtra
	Name/No. of	Smt. Vidya Kharbadkar (Jr. Geologist),

	Geoscientists	Shri. Omkar Gujar (Jr. Geologist)
	Expected Field days (Geologist, Surveyor)	<ul style="list-style-type: none"> Geologist party -180 field days + 60 HQ days Surveyor party -30 days
1	Location	
	Latitude	19°29'17.0088" N to 19°30'32.66" N
	Longitude	79°9'34.23" E to 79°11' 26.8404" E
	Villages	Bhari, Chilatiguda (Plate-I)
	Taluka	Jiwati
	District	Chandrapur
	State	Maharashtra
2	Area (sq km)	
	Block Area	4.27 sq. km
	Forest Area	3.15 sq.km.
	Govt Land Area	NA
	Private Land Area	1.12 sq.km
3	Accessibility	
	Nearest Rail Head	Gadchandur (38 km)
	Road	38 km National Highway 353 B, Tar Road
	Airport	Nagpur (212 km)
4	Hydrography	
	Local Surface Drainage Pattern (Channels)	The Bapur Vagu river forms the main drainage flowing towards south east in the study area into which many minor streams coalesce. The drainage pattern is mostly dendritic in nature.
	Rivers/Streams	Bapur Vagu
5	Climate	
	Mean Annual Rainfall	1200-1400 mm
	Temperatures (December) (Minimum) Temperatures(May) (Maximum)	9°C 48°C
6	Topography	
	Toposheet No.	Part of 56 M/2 & 56 M/3
	Morphology of the area	Physiographically, the Limestone area covered under exploration exhibits region of high elevation area with steep slope. The area has dissected plateau. The lowest contour in the area is 280 m whereas the highest contour running is 398 m.
7	Availability of baseline geoscience data	
	Geological Map (1:63630)	Available Plate-II By DGM
	Geochemical Map	NA
	Geophysical Map	NA

8	Justification for taking up G3 stage mineral exploration	<ul style="list-style-type: none">• In F.S. 1976 to 1985 General Exploration was carried out in the vicinity of Chedvai Limestone Deposits.• A total of 146 boreholes with a drilling meterage of 9592.20 meters were drilled in the Chedavi Limestone area, proving the presence of 164 MT of cement-grade limestone deposits in the block.• Reconnaissance mapping at a scale of 1:63,630 in the Chedavi Limestone block revealed the occurrence of limestone beds in and around Bhari Village.• In F.S. 1982 to 1984, two test boreholes (BR-01 & BR-02 with a depth of 100.50 meter & 82m respectively) were drilled in Bhari Village, confirming the presence of cement- grade and blendable-grade limestone bands in the area.• A total of 0.76 MT of cement-grade limestone (CGL) and 5.2 MT of blendable-grade limestone (BGL) resources (333 category) were estimated based on these two boreholes using the extended area and grid pattern method in Bhari Limestone deposit.• In F.S. 2024-25, a total of seven Bed rock samples were collected from the Bhari Limestone beds, further revealing the presence of cement-grade limestone in the area.• The chemical analysis result of the above sample is given in																																																
		<table><tr><th>S.No</th><th>Sample ID</th><th>CaO</th><th>MgO</th><th>SiO2</th><th>Grade</th></tr><tr><td>1</td><td>DGS-BH-01</td><td>42.19</td><td>1.49</td><td>14.66</td><td>CGL</td></tr><tr><td>2</td><td>DGS-BH-02</td><td>47.64</td><td>0.9</td><td>9.04</td><td>CGL</td></tr><tr><td>3</td><td>DGS-BH-03</td><td>44.21</td><td>0.91</td><td>12.49</td><td>CGL</td></tr><tr><td>4</td><td>DGS-BH-04</td><td>45.00</td><td>1.02</td><td>12.06</td><td>CGL</td></tr><tr><td>5</td><td>DGS-BH-05</td><td>48.32</td><td>0.75</td><td>7.67</td><td>BF</td></tr><tr><td>6</td><td>DGS-BH-06</td><td>44.88</td><td>1.00</td><td>11.45</td><td>CGL</td></tr><tr><td>7</td><td>DGS-BH-07</td><td>45.29</td><td>0.62</td><td>11.43</td><td>CGL</td></tr></table>	S.No	Sample ID	CaO	MgO	SiO2	Grade	1	DGS-BH-01	42.19	1.49	14.66	CGL	2	DGS-BH-02	47.64	0.9	9.04	CGL	3	DGS-BH-03	44.21	0.91	12.49	CGL	4	DGS-BH-04	45.00	1.02	12.06	CGL	5	DGS-BH-05	48.32	0.75	7.67	BF	6	DGS-BH-06	44.88	1.00	11.45	CGL	7	DGS-BH-07	45.29	0.62	11.43	CGL
		S.No	Sample ID	CaO	MgO	SiO2	Grade																																											
		1	DGS-BH-01	42.19	1.49	14.66	CGL																																											
		2	DGS-BH-02	47.64	0.9	9.04	CGL																																											
		3	DGS-BH-03	44.21	0.91	12.49	CGL																																											
		4	DGS-BH-04	45.00	1.02	12.06	CGL																																											
		5	DGS-BH-05	48.32	0.75	7.67	BF																																											
		6	DGS-BH-06	44.88	1.00	11.45	CGL																																											
		7	DGS-BH-07	45.29	0.62	11.43	CGL																																											
table below																																																		
<ul style="list-style-type: none">• Based on the above results and previous exploration data, the Bhari Limestone Deposit is proposed for G3 stage exploration as per the Minerals (Evidence of Mineral Contents) Rules-2015, Mineral (Auction) Rules-2015, and MMDR Amendment Act-2015, to facilitate the Government of Maharashtra in auctioning the block.																																																		