

RUPAPETH BLOCK FOR LIMESTONE EXPLORATION (G3) CHANDRAPUR DISTRICT, MS



Gemcoka Exploration Pvt. Ltd  
Plot No-34, Postal Colony, Bapat Nagar,  
Chandrapur 442401, Maharashtra



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FOR SUBMITTING PROPOSAL FOR UNDERTAKING PRELIMINARY EXPLORATION  
Nagpur, dated 30th March 2021

To  
The Director,  
Directorate of Geology and Mining,  
Plot No. 7, Kharbhawan,  
Cement Road, Shivaji Nagar,  
Nagpur-440010, Maharashtra.

Sir,

I am submitting the following details for granting of the State Govt. for submitting scheme of reconnaissance to NMET under Mode 'h' of the G.W. & Y. & Z. c.f. 9 b [ U ] Agencies in Mineral Exploration by Ministry of Mines vide MoM No. 15/2021. Dated 11/2 August 2021.

1) Name and address of the Applicant																																										
(a)	Name	GEMCO KATI EXPLORATION PVT.LIMITED																																								
(b)	Postal address	Plot No. 34, Bapat Nagar, Chandrapur, Maharashtra.																																								
(c)	Telephone No (Office)	0717-2287200																																								
(d)	Fax No (Office)	0717-2287200/230562																																								
(e)	Mobile No	+91 7044208900																																								
(f)	Telephone No (Residence)																																									
(g)	E-mail address	subrata.sarkar@gemcokati.com																																								
2) Detail of Accreditation as Private Exploration Agencies and Notification under Section 4 (1) of the MMDR Act.																																										
(a)	Date of accreditation granted by MOC	16th Aug 2019																																								
(b)	Date of expiry of accreditation	16th Aug 2021																																								
(c)	Date of Notification under the proviso (1) of the MMDR Act.	15th Dec 2019																																								
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(e)	Category of the Exploration agency (Category A or B) under Notification	Category B																																								
3) Location details of the area proposed																																										
(a)	State	Maharashtra																																								
(b)	District(s)	Chandrapur																																								
(c)	Nearby village(s)	Korpana																																								
(d)	Survey of India (SOI) Toposheet No (s)	56I/14																																								
(e)	Area in Sq. Km	7 Sq. Km																																								
(f)	Boundary-coordinates of the Proposed Block (Decimal Degree)	<p style="text-align: center;">Rupapatt block (G3)</p> <table border="1" style="width: 100%;"> <thead> <tr> <th colspan="3">LONGITUDE</th> <th colspan="3">LATITUDE</th> </tr> </thead> <tbody> <tr> <td>(A)</td> <td>78 54</td> <td>40.97</td> <td>19 43</td> <td>48.52</td> <td></td> </tr> <tr> <td>(B)</td> <td>78 55</td> <td>38.93</td> <td>19 43</td> <td>49.87</td> <td></td> </tr> <tr> <td>(C)</td> <td>78 56</td> <td>19.89</td> <td>19 42</td> <td>25.83</td> <td></td> </tr> <tr> <td>(D)</td> <td>78 54</td> <td>57.60</td> <td>19 42</td> <td>0 " 8</td> <td></td> </tr> <tr> <td>(E)</td> <td>78 54</td> <td>27.20</td> <td>19 42</td> <td>55.60</td> <td></td> </tr> </tbody> </table>					LONGITUDE			LATITUDE			(A)	78 54	40.97	19 43	48.52		(B)	78 55	38.93	19 43	49.87		(C)	78 56	19.89	19 42	25.83		(D)	78 54	57.60	19 42	0 " 8		(E)	78 54	27.20	19 42	55.60	
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4) Mineral Potential of the area																																										



(a)	Name of Mineral(s) identified/expected area/block	Limestone
(b)	Basis on which mineral potential of the area has been identified	D` Y U g Y ` f Y Z Y f ` Y b W` c g
(c)	List of documents/references relied upon of item (b) above	1-Block area on goggle map.
5) Documents to be enclosed with the application		
(i)	Location of the proposed block demarcated on Survey of India (SOI) Toposheet (	
(ii)	Documents mentioned in items 4 (C) above	

Place-Chandrapur

Date 30/03/2024

Signature of the applicant



Proposal for Preliminary Investigation of Cement grade limestone in Rupapet  
Block (G3) 7[sq.km], District, Chandrapur, Maharashtra State

COMMODITY LIMESTONE

BY

Gemcoka Exploration Pvt. Ltd  
Plot No-34, Postal Colony, Bapat Nagar,  
Chandrapur 442401, Maharashtra

Place: Chandrapur



## Summary of the Block for G3 stage exploration

	Features	Details
	Block ID	RUPAPETH BLOCK (G3) FOR LIMESTONE
	Current Exploratory Agency	GEMCO KATI EXPLORATION PVT. LTD.
	Previous Exploratory Agency	GEOLOGICAL SURVEY OF INDIA
	G4 stage Geological Report (Previous stage Geological Report)	Bedded deposit with cementing, proposed for directly to G3
	Commodity	LIMESTONE
	Mineral Belt	P-G Valley Penganga Group Limestone
	Completion Period with entire Time schedule to complete the project	10 Months
	Objectives	<p>1. To delineate the surface outcrop of limestone by detailed geological mapping on 1:4000 scale</p> <p>2. To drill the limestone boreholes (5 by 5) on the grid pattern 800m X 800m polygonal mesh per MEMO rule 2015 to decipher its depth, persistence and continuity to establish the different zones of high quality limestone.</p> <p>3. To estimate the in-situ resources of different grades of limestone for G3 Stage of exploration (B33) and preparation of Geological Report (GR).</p> <p>4. Carry out mineral exploration works as per Mineral (Evidence of Mineral Contents) Rule 2015, Mineral (Auction) Rule 2015 and MMDR Amendment 2015 and</p> <p>5. In turn to facilitate the Government for auctioning the block.</p>
	Whether the work will be carried out by the proposed agency or through sourcing and details thereof. Components to be outsourced and name of the outsource agency	<p>Work will be carried out by the proposed agency i.e. Gemco Kati Exploration Pvt. Ltd. Chandrapur</p> <p>Not applicable</p>
	Name/Number of Geoscientists	Two Geologists (2G) Surveyor (1S)
	Expected Field days (Geology, Geophysics, Surveyor)	Geologists 20 days Surveyor 45 days
1.	Location	
	Latitude	19° 20' 24" N - 19° 34' 49.87"
	Longitude	78° 42' 27.20" E - 78° 56' 19.89"
	Villages	Rupapeth & Khakri
	Tehsil/Taluk	Korpana
	District	Chandrapur
	State	Maharashtra
2.	Area (hectares/square kilometers)	
	Block Area	7 Sq.Km.



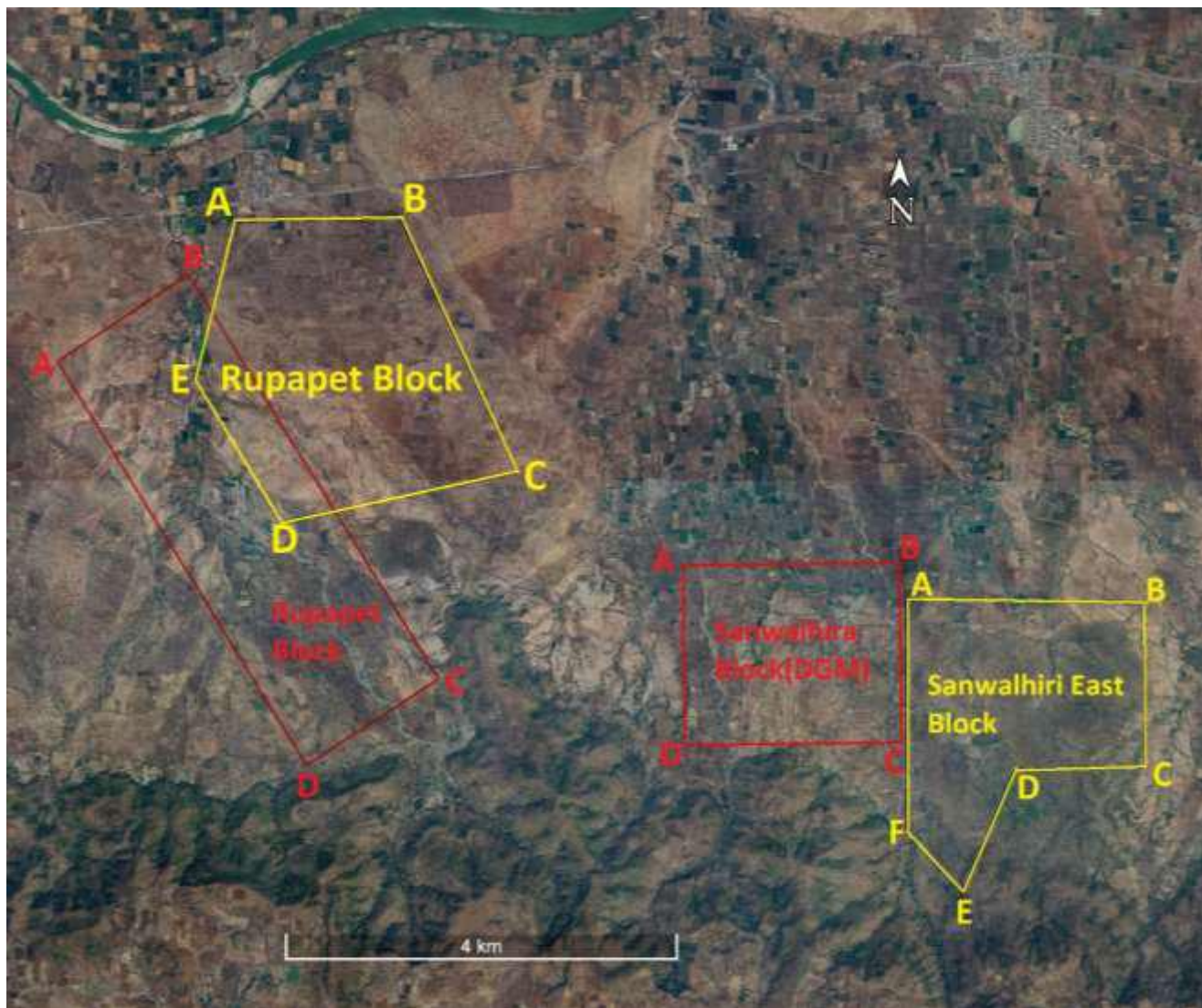


Forest Area	Central in the area is falling under Pardi Reserved Forest remaining parts of the area in southern, and northern sides are occupied by the agricultural land
Government Land Area	NA
Private Land Area	Occupied by both Forest and agricultural land
Accessibility	
Nearest Rail Head	Gadchand (30 km)
Road	6 km from Adilabad Orpana Highway 200 m to local Tar Road
Airport	Nagpur (200 km)
Hydrography	
Local Surface Drainage Pattern (Channels)	The Penganga River forms the main drainage in the study area into which many minor streams coalesce. There is no major drainage channel passing through the area
Rivers/Streams	Penganga
Climate	
Mean Annual Rainfall	1420 mm
Temperatures (December) (Minimum)	2.8°C
Temperatures (May) (Maximum)	49°C
Topography	Almost the entire area is represented by volcanic topography with small, isolated patches covered by agricultural area.
Toposheet Number	56I/14
Morphology of the Area	Physiographically, the area under exploration is a low-lying plateau with low relief. The slope of the area is towards north. The lowest contour there is 237 m near Khakhar whereas the highest contour is 251 m in the south side of the block area
Availability of baseline geoscientific data	
Geological Map (1:50,000)	1:50,000 Scale Geological Map is available in digital domain and was downloaded from GSI Portal (Bhukosh)
Geochemical Map	N/a
Geophysical Map (Aerogeophysical, Ground geophysical, Regional scale GPMs)	N/a
Justification for taking up pre-stage exploration	(A) The Geologists of the Exploration Wing of Exploration Pvt Ltd visited the area on 04.08.2023 and 18.08.2023 respectively. During the visit, few grab samples were collected from the blocks and analyzed (+) 46.01% to 50.46% CaO. Later, in the instance of 73C deliberation held on 27.08.2023, A U f W \ D & S & ( Z \ h \ Y \ U f 2023) and the block boundary shapes were decided to avoid catchment area, as per suggestions of members.  (B) The area in the east is a potential cement/limestone area currently under exploration by the Officers of DMS under NMET funding.

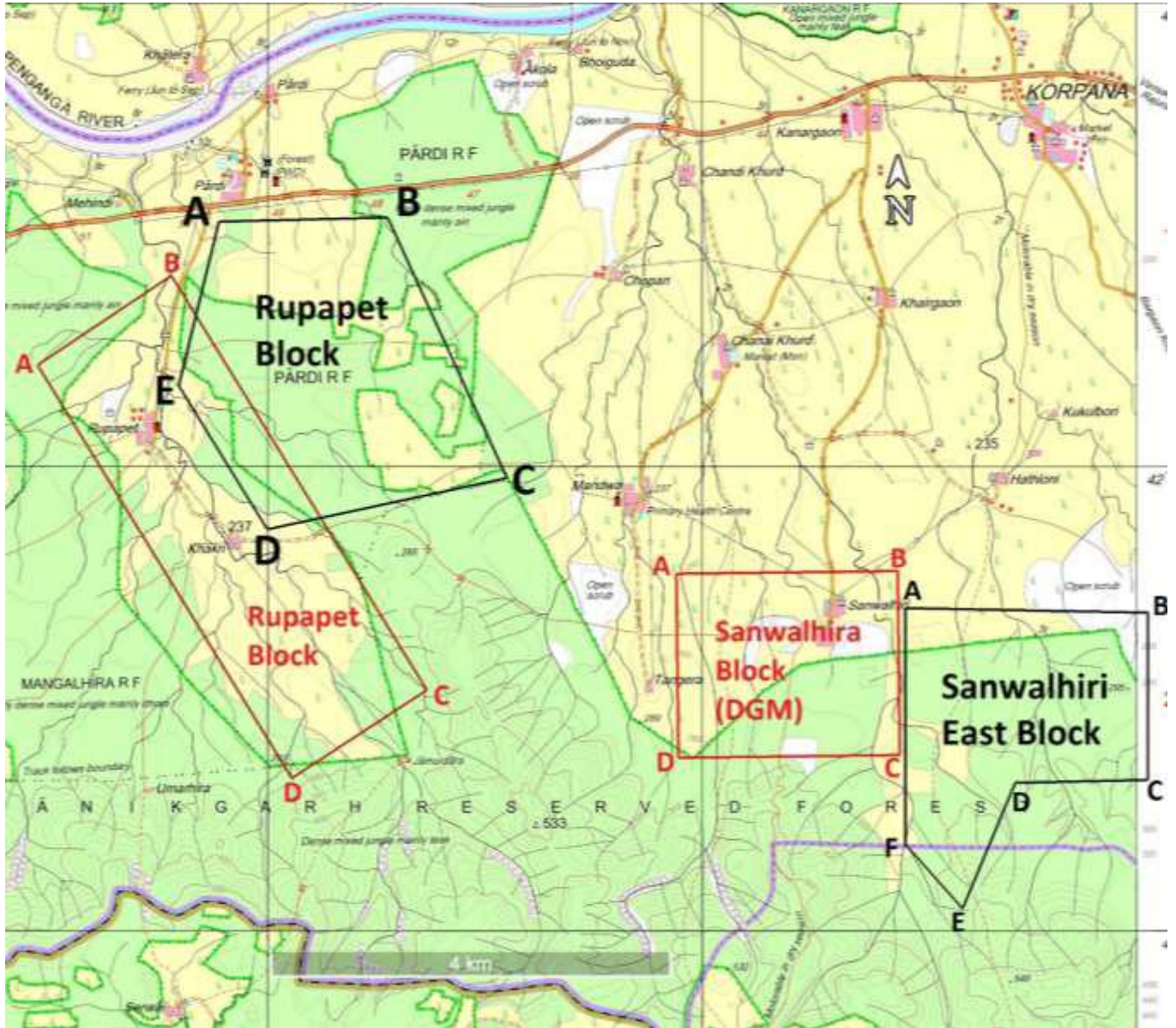
		<p>block name is Savhira.</p> <p>(C) It is learnt that the values of limestone in DGMMS is ranging from 4% to 50% CaO in adjacent to Savhira Block</p> <p>(D) Few Cement Factories and dolomite is situated in the vicinity of this block are the potentiality of the area.</p> <p>(E) Under the prevailing situation, this block to be explored under G3 norm of UNFC to bedded deposit under bulk commercial mining block within 10 months.</p>
	9 Documents to be enclosed with the application	<p>1. Block area on topographic map.</p> <p>2. Location of the proposed block on Survey of India (SOI) &amp; Toposheet (541/14</p> <p>3. Block area on Geological Map.</p>



1-Revised boundary of Rupapet Block on golemap. [Toposheet 56I/14]

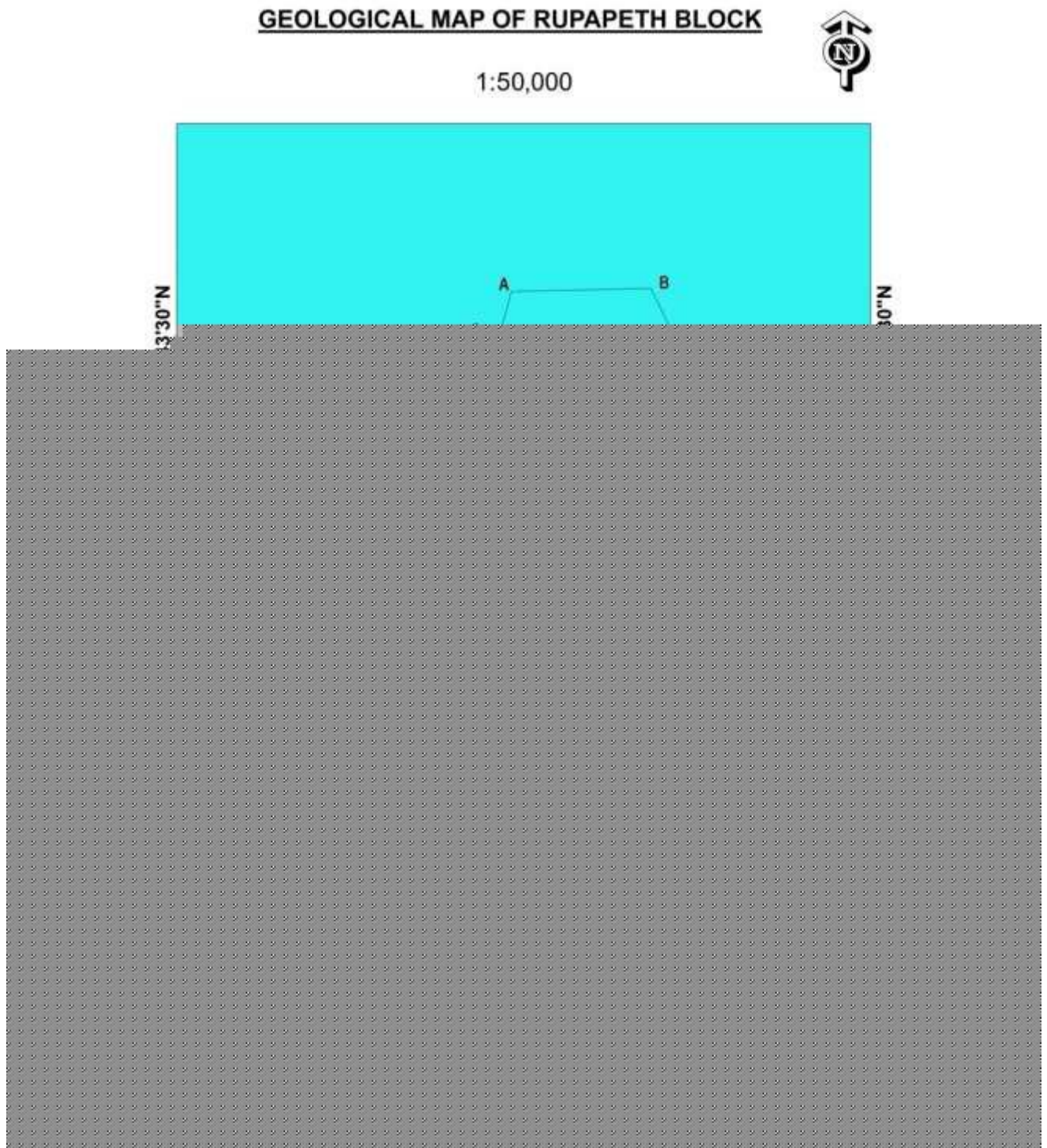


2. Location of the revised boundary of Rupapet block demarcated on Survey of India (SOI) Toposheet (S/54).

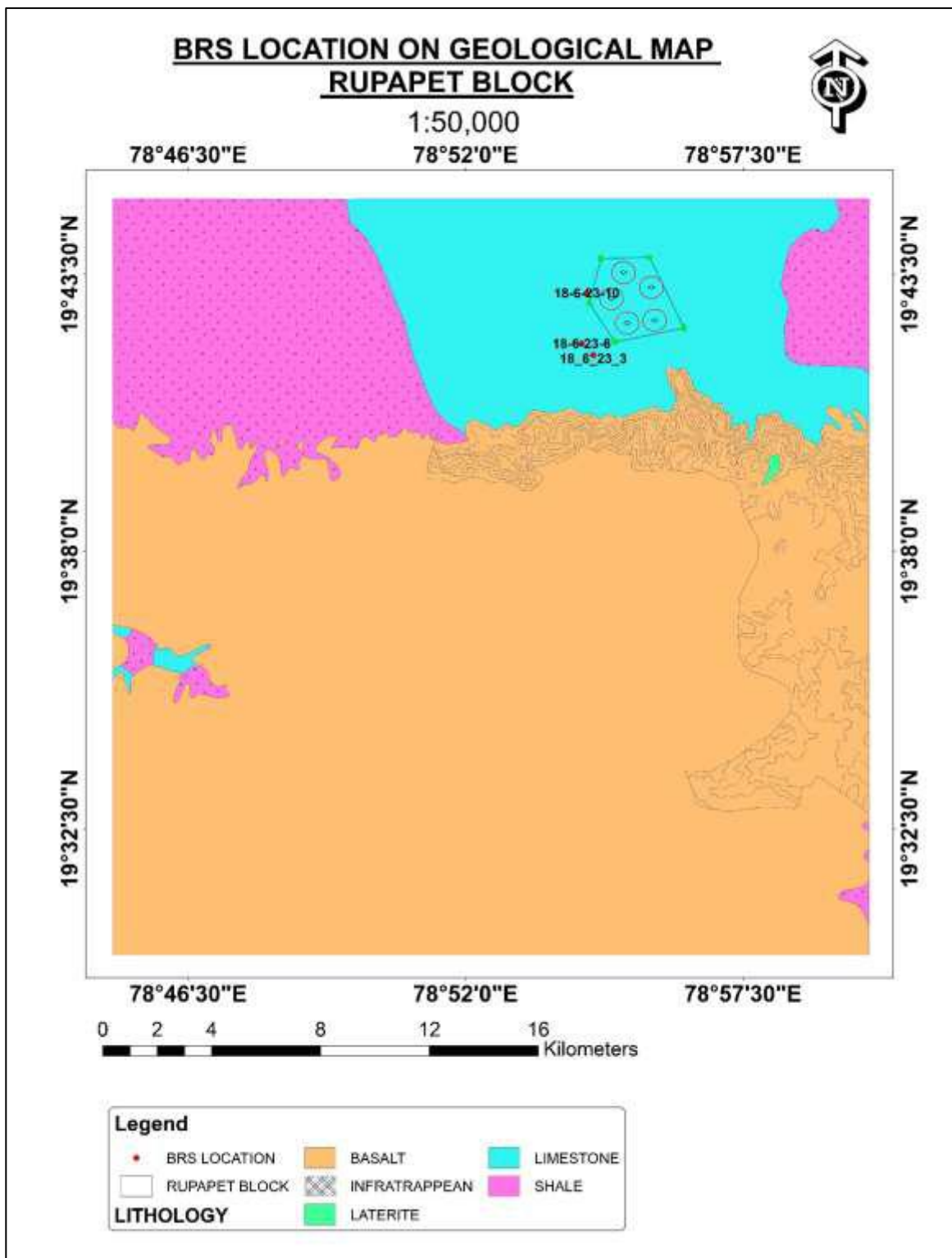




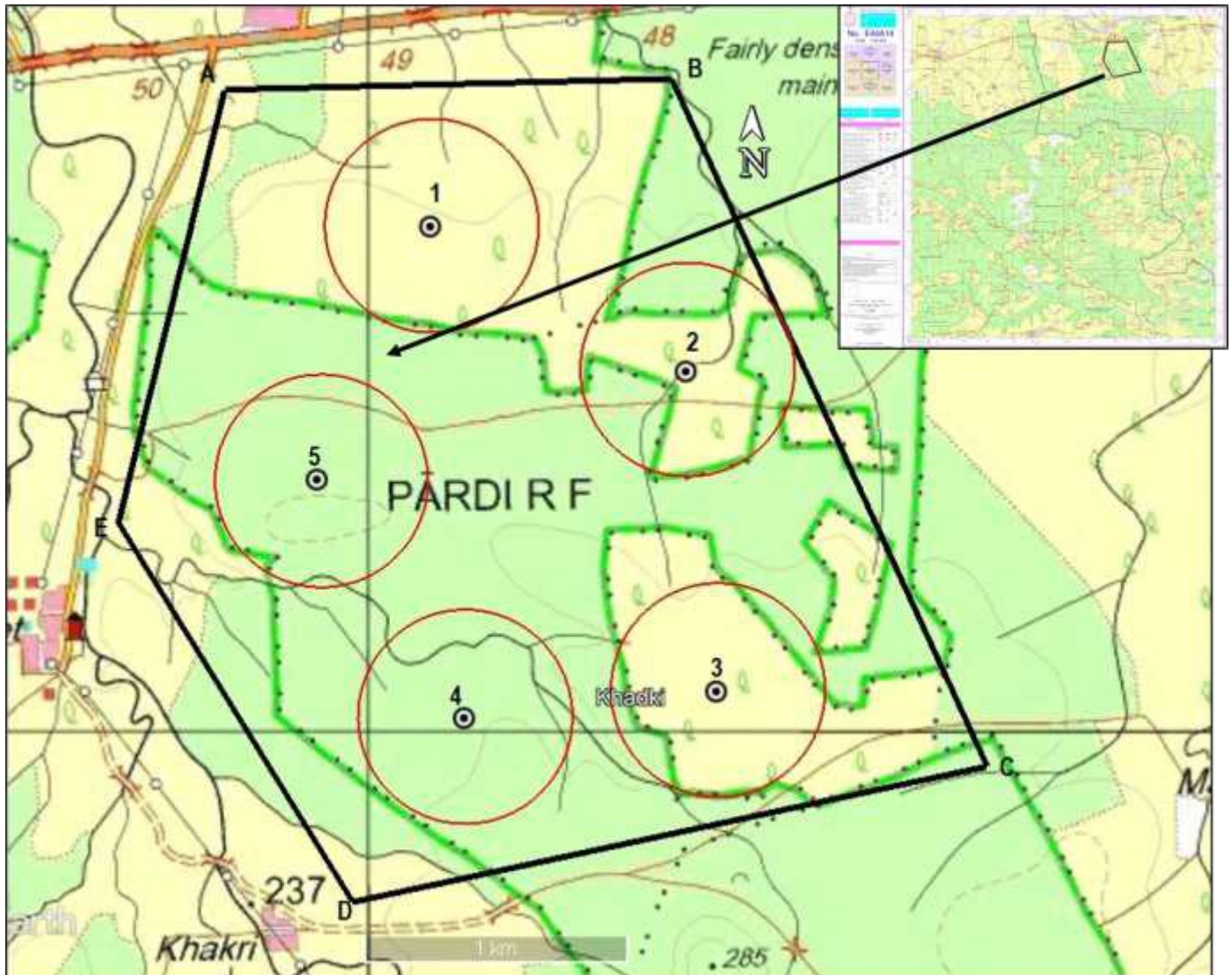
### 3. Revised boundary of Rupapeth Block on Geological Map



## 5. Block area on Geological Map



## 6. Bore Hole Location .Map





## Field Photographs







Cost Estimate for Preliminary Exploration (G-3) for Limestone in Rupapeth Block(G3), Chandrapur, District: Maharashtra, Area 7 sq. km, BH:5 , Borehole depth range- 60 m; Schedule timeline- 10 months; [ Review: After 6 Months]							No.of
	Item of Work *	Unit *	Rates as per NMET		Estimated Cost of		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>						
	Geological mapping, (1:4,000 scale) & Trenching , drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.3	11000	150	1650000	
ii	b. Labours Charges; Base rate	day	5.7	504	300	151200	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	c. Charges for Geologist per day (HQ)	day	1.3	9000	75	675000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5100	40	204000	
	e. Labours (4 Nos)	day	5.7	504	160	80640	
	<b>Sub Total- A</b>					<b>27,60,840</b>	
<b>B</b>	<b>Ground Geophysical Survey</b>						
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km					
3	Geophysicist party days (Field)	per day					
4	c. Labours Charges	day					
5	Geophysicist party days (HQ)	per day					
	<b>Sub Total- B</b>					-	
<b>C</b>	<b>Survey work</b>						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	10	192000	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	45	373500	
c	Labours Charges for survey work;	day	5.7	504	180	90720	
	<b>Sub-Total C</b>					<b>6,56,220</b>	
<b>D</b>	<b>Trenching/Pitting</b>						
	a) Excavation of Trenches	per cu.m	2.1.1	3,330	50	166500	
<b>E</b>	<b>DRILLING (after review)</b>						
1	Drilling up to 300m (Hard Rock)	m	2.2.1.1b	6,775	300	2032500	
2	Borehole deviation Survey by Multishot Camera	m					
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	-	0	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000	
5	Borehole plugging by cement	per borehole	2.2.7b	150	-	0	
6	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	150	5400	To and Fro
7	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	1,50,000	
8	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
9	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
10	Road Making (Flat Terrain)	Km	2.2.10a	22,020	2	44,040	
11	Drill Core Preservation	per m	5.3	1,590	250	3,97,500	
	<b>Sub Total E</b>					<b>31,39,440</b>	
<b>F</b>	<b>Borehole Geophysical Logging</b>	5 Bhs of 60m each					
<b>G</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
i)	<b>Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)</b>						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE by Fire Assay	Nos					
ii)	<b>Surface Check samples (10% External)</b>						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					

[illegible]