

**Proposal for Preliminary Exploration (G3 Stage) of Limestone, Ponar,  
Adilabad District, Telangana under NMET**



**Commodity: Limestone**

**By**

**Maheshwari**  
Global Technologies Ecological Mining

**Maheshwari Mining Private Limited**

**Place: Kolkata**

**Date: 12/12/2024**

## Summary of the Block G3 Stage Exploration

	Features	Details
	Block ID	Ponar
	Current Exploration Agency	Maheshwari Mining Private Limited
	Previous Exploration Agency	Geological Survey of India
	G4 stage Geological Report (Previous stage Geological Report)	
	Commodity	Limestone
	Mineral Belt	The Penganga Group of sedimentary rocks
	Completion Period with entire Time schedule to complete the project	365 days/12 months
	Objectives	<p>Objectives of the Preliminary Exploration (G3) over an area of 9.10 sq km as follows:</p> <ol style="list-style-type: none"> <li>1. Geological mapping on 1:4000 scale and demarcating Limestone occurrence with the structural features i.e. strike, dip, lineation/foliation, etc., for medium to high grade Limestone deposits.</li> <li>2. Based on <b>the outcome of the geological mapping</b>, bedded stratiform regular deposit drilling with 800 m and closer spacing will be done, 12 nos. of vertical boreholes with total 600m depth. Each borehole is planned with a maximum depth of 50m.</li> <li>3. Chemical Analysis of core samples and surface samples.</li> <li>4. Gradewise determination of dimension of Limestone deposits and estimation of tonnage &amp; grade in G3 stage as per amended version 2021) of Minerals (Evidence of Mineral Contents) Rules (2015)</li> </ol>
	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 proposed agency
	Name/ Number of Geoscientists	<p>In field: Two Geologists.</p> <p>At Headquarters: Two Geologists</p>

	Expected Field days (Geology) Geological Party Days	Item execution duration 10 Months and actual field days of field geologist 90 days and 45 days for HQ.		
<b>1</b>	<b>Location</b>	<b>POINT_ID</b>	<b>EASTING</b>	<b>NORTHING</b>
		<b>P</b>	272243	2183020
		<b>Q</b>	274464	2183220
		<b>R</b>	274544	2182970
		<b>S</b>	274494	2182110
		<b>T</b>	275564	2178660
		<b>U</b>	273572	2178620
	Villages	Ponar, Marutiguda, Chandpalli		
	Tehsil/ Taluk/Mandal	Bela (Mandal)		
	District	Adilabad		
	State	Telangana		
<b>2</b>	<b>Area (hectares/ square kilometres)</b>			
	Block Area	9.1 sqkm		
	Forest Area	Xx		
	Government Land Area	Xx		
	Private Land Area	Xx		
<b>3</b>	<b>Accessibility</b>			
	Nearest Rail Head	Adilabad railway station (32km)		
	Road	Adilabad- Korpana (NH-353B)		
	Airport	Hyderabad:Rajiv Gandhi International Airport(326 Km)		
<b>4</b>	<b>Hydrography</b>			
	Local Surface Drainage Pattern (Channels)	Radial pattern		
	Rivers/ Streams	Penganga		
<b>5</b>	<b>Climate</b>			
	Mean Annual Rainfall	Average annual rainfall is around 100cm mostly during Monsoon		
	Temperatures (December)(Minimum)  Temperatures (June)(Maximum)	Average temperature 15 <sup>0</sup> C in December  While Average temperature 38 <sup>0</sup> C during May to June		
<b>6</b>	<b>Topography</b>			
	Toposheet Number	56I/14		
	Morphology of the Area	The area under report forms the lowland in the valley of the		

		<p>Penganga River, to the south of which lie, the Satmala Hills (<math>\Delta</math> 2065 and <math>\Delta</math> 1794). The hill mass of <math>\Delta</math>1031 in the west and the hillock <math>\Delta</math> 1067 in the east may be mentioned for providing relief in an otherwise low rolling country of sedimentary rocks. In the south-east and north-west, contrast in relief is accentuated because of the occurrence of Deccan Trap. The topography appears to be at the youthful stage as exemplified by the state of dissection of hillmass of <math>\Delta</math>1031</p>																																	
<b>7</b>	<b>Availability of baseline geoscience data</b>																																		
	Geological Map (1:50K/ 25K)	<b>Available</b>																																	
	Geochemical Map	<b>Not Available</b>																																	
	Geophysical Map (Aeromagnetic, ground geophysical, Regional as well as local scale GP maps)	<b>Not Available</b>																																	
<b>8.</b>	<b>Justification for taking up Reconnaissance Survey / Regional Exploration</b>	<p>After desktop study on Limestone in Ponar, Adilabad District, Telangana following points have been considered to propose the block for Preliminary Exploration for Limestone in G3 stage:</p> <p>On the bank of Penganga River near Mangurda village the limestone beds trend NW-SE with a dip of 20 degree to 25 degree towards northeast, which is part of Mangurda formation. The limestone of Mangurda formation also occur to the other side of Penganga river in Maharashtra in Bahilampur area. The DGM Maharashtra developed a block in Bahilampur area with avg grade of limestone is CaO: 46.53, MgO: 3.3, SiO<sub>2</sub>:7.2, Fe<sub>2</sub>O<sub>3</sub>: 2.7</p> <p><b>MMPL has taken traverse in the area and collected 10 BRS sample having CaO value as follows:</b></p> <table border="1"> <thead> <tr> <th>S.No.</th><th>Sample_Id</th><th>CaO</th></tr> </thead> <tbody> <tr><td>1</td><td>MPL-1</td><td>52.64</td></tr> <tr><td>2</td><td>MPL-2</td><td>45.27</td></tr> <tr><td>3</td><td>MPL-3</td><td>51.83</td></tr> <tr><td>4</td><td>MPL-4</td><td>51.59</td></tr> <tr><td>5</td><td>MPL-5</td><td>55.43</td></tr> <tr><td>6</td><td>MPL-7</td><td>31.04</td></tr> <tr><td>7</td><td>MPL-8</td><td>25.61</td></tr> <tr><td>8</td><td>MPL-9</td><td>26.49</td></tr> <tr><td>9</td><td>MPL-10</td><td>44.4</td></tr> <tr><td>10</td><td>MPL-11</td><td>23.15</td></tr> </tbody> </table>	S.No.	Sample_Id	CaO	1	MPL-1	52.64	2	MPL-2	45.27	3	MPL-3	51.83	4	MPL-4	51.59	5	MPL-5	55.43	6	MPL-7	31.04	7	MPL-8	25.61	8	MPL-9	26.49	9	MPL-10	44.4	10	MPL-11	23.15
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## **Detailed description on the following titles to be made in the proposal.**

### **1. Block Summary**

#### **Physiography**

The area is the lowland in the valley of the Penganga River, to the south of which lie, the Satmala Hills ( $\Delta$  2065 and  $\Delta$  1794). The hill mass of  $\Delta$ 1031 in the west and the hillock  $\Delta$  1067 in the east may be mentioned for providing relief in an otherwise low rolling country of sedimentary rocks. In the south-east and north-west, contrast in relief is accentuated because of the occurrence of Deccan Trap. The topography appears to be at the youthful stage as exemplified by the state of dissection of hillmass of  $\Delta$ 1031. This limestone terrain represents a broad antiformed structure and the drainage is radial.

#### **Background Geology (Regional Geology, Geology of the Block).**

##### **PENGANGA GROUP**

The rocks of the Penganga group are unmetamorphosed sedimentary beds rest nonconformably on the crystalline rocks. Commencing 2 km. to the north of Adilabad, the Penganga strata extend NW-SE as laid bare by the headward receding limit of Deccan Trap volcanic flows in the valley of the Penganga River. No major outlier of the Penganga rocks is so far reported south of Adilabad. Conjectural correlation by S.A.Karim (1924) of the beds on the lower reaches of Kaddam River, some 60 km. to the SSE of Adilabad, with the Penganga is untenable as the former resemble the Pakhal beds of Ramgundam of which these are mere north-westward extension (Ramilngaswamy and Prasannan, 1975; present author, November, 1977).

##### **Shale**

Shales are reddish brown to purple in colour, soft and indurated to fissile in texture. They are laminated to thinly bedded and at places exhibit ball up and nodular structures. The individual beds vary in thickness from 1 to 5 cm. At places bleach spots are also seen in shales as deoxidation spheres. Shales are intercalated with thin bands of limestone, varying in thickness from a few cm to 0.5 m. These bands are grey to greenish grey and pink to fawn in colour. At places veins of pink to white calcite have filled up the shales along the joint planes.

##### **Limestone and dolomitic limestone**

Limestones are thin to thick bedded in nature and vary from light grey to dark grey, white to pinkish white and buff in colour, fine grained, compact and contain partings of calcareous shale along the bedding planes. Major part of the area is covered by the dominant thinly to thickly bedded variety of limestone which is seen all along the Penganga river on either sides in toposheet No. 56 I/13 and I/14. Fine grained, hard, compact and pinkish white coloured dolomitic limestone is seen in the southernmost part of the area mapped. Jain (1976-77) mapped the limestones around Kayar and Suknagaon as dolomitic limestones

##### **Mangurda Limestone Formation**

In the north-eastern most corner of the area under report, on the right bank of the Penganga River at

Mangurda, limestones occur. These were shown on the map by Hughes (1877) and Fedden. These limestones contain at the base an intraformational conglomerate followed by a succession of light grey and pale pink coloured limestone interbedded with a dark grey dolomite. In the bed of the river and on the bank at Mangurda, the beds trend NW-SE and dip 20° -25° towards north-east. The western limit of the outcrop in the bed of the river is contorted and therefore its contact with the Bela Shale must be faulted.

The Mangurda Limestone presumably extends down the Penganga upto the interstate boundary with Maharashtra which crosses the river midway between Mungurda and Parsola, to its east.

### Regional Stratigraphic Setup

Age	Group	Subgroup	Formation	Composite vertical lithofacies description	Thickness
1	2	3	4	5	6
Recent	-	-	-	Alluvium, calcrete, calc-tufa	12 m
Quaternary	-	-	Sat Nala sandstone	Pebbly, cross-bedded sandstone	6 m
Eocene	Deccan Trap	-	-	Volcanic flows of basalt with Inter-Trap Sandstone (fossiliferous)	1 m+
				Infra-Trap Sandstone	6 m
				Unconformity	
Upper Precambrian			Mangurda Limestone	Grey limestone with interbedded dark grey dolostone	300 m
			Bela Shale	Red and green laminated shale	250 m
				Grey flaggy limestone	
				Grey massive limestone, traversed by quartz veins	
				Light grey limestone with interbedded chert-jasper(+ manganese) horizons and intra-formational flat pebble boulder conglomerates	
				Red, green, grey limestone/granite- limestone mixite	150 m (Max)
				Pale red flaggy limestone	
				Glauconitic and feldspathic sandstone	
				Saorgaon laminated limestone	
				Saorgaon red shale/mudstone	

### Scope for proposed exploration

- a. The objective of this project is to estimate the resource of Limestone in the area and demarcation of Limestone extension.
- b. Borehole planning on the basis of previous data and present work; chemical analysis of trenching and pitting in the potential areas to delineate the lithological thickness of Limestone deposits and to determine the associated stratigraphic sequences in the area.

### 2. Previous Work

The previous work done by GSI in 1975. the Geological extension of Penganga Group of sedimentary rocks occurs to the immediate north and east of Adilabad, the taluk and district headquarters. Adilabad is situated on National Highway No.7, about 275 km to the north of Hyderabad, the capital city of Telangana. That portion of the ENE flowing Penganga River between Gomutri in the north-west and Mangurda in the north-east forms the northern boundary of the area mapped. The stretch of the river also forms the interstate boundary. The Penganga Group extends across the river into the territory of Maharashtra to its north and thus the northern limit of the area mapped is warranted by administrative restrictions and not by geological considerations.

Cement Corporation of India investigated the area on the left bank of Mathadi vagu to the north of Bhimsari and established in 1968 the availability of cement grade limestone.

W.T. Blanford is on record to have mapped the present area in 1866 and a map on 1:253,440 scales probably by W.T. Blanford is extant in the Geological Survey of India (Heron, 1949). T.W.H. Hughes (1877) together with F. Fedden produced a map for the area extending eastwards of the north-eastern margin of the area under report.

Cement Corporation of India investigated the area on the left bank of Mathadi vagu to the north of Bhimsari and established in 1968 the availability of cement grade limestone. Cement Corporation of India Ltd (Warrier and Gupta, 1968) investigated by drilling (983.64 m in 32 boreholes; IBM, 1972). The limestone in an area to the north of Bhimsari and proved a sizeable reserve to sustain a cement factory proposed to be built in the vicinity. Their drill-hole sections hold considerable detail for stratigraphic interpretation.

### 3. Block description

POINT_ID	EASTING	NORTHING
P	272243	2183020
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#### **4. Planned Methodology**

In accordance to the objectives set for preliminary exploration (G3 level of exploration) for Limestone Ponar, Adilabad District, geological mapping in 1:4000 scale, core drilling, core sampling, chemical studies, petrological and mineralogical studies are proposed in the block. The exploration will be carried out as per Minerals (Evidence of Mineral contents) Amended Rules-2021. Accordingly, the details of different activities to be carried out are presented in subsequent paragraphs.

##### **4.1. Topographic Surveying**

Topographic survey will be carried in the area (9.10 Sq. Km) and all the surface features will be marked in the 1:4000 scale. The block boundary will be surveyed by DGPS / total station in WGS-84 Datum and demarcation of the boundary pillars to enable the block auctionable. The reduced level and coordinate of the boreholes would be surveyed by DGPS/ total station.

##### **4.2. Geological Mapping**

Geological mapping on 1:4000 scale in the area (9.10 Sq. Km) will be carried out by taking geological traverses. The contacts of different formations, surficial lithology, structural features, etc. will be noted in detail. The geological map on 1:4000 scale will be generated based on the details gathered during the field visit.

##### **4.3. Core Drilling**

Based on **the outcome of the geological mapping**, after review for bedded stratiform regular deposit drilling with 800m spacing, 12 nos. of vertical boreholes with 600 m total depth of core drilling is being proposed over the area 3.26 sq. km to intersect the mineralized zone. The maximum depth will be 50 m for each bore hole.

##### **4.4. Core Logging**

The drill cores would be logged systematically viz. details of lithounits, colour, structural feature, texture, mineralization, beside the recovery, rock quality designation would be recorded.

##### **4.5. Core Sampling**

a.) The drill core will be split into two equal halves and one part would be preserved in the core box. The other half will be powdered to -120 mesh size and the same would be divided into four parts (250gm each) through coning and quartering. One part of 250 gm sample will be sent to chemical laboratory for analysis, second part to be preserved in the camp as duplicate sample, third part to be utilized for preparing composite sample for individual ore band and the fourth part would kept as either check sample or sample to be used for any other specific purpose.

The length of each sample will be kept 0.50 m-1.0m depending upon the width of particular types of limestone band and its physical character. The primary core samples will be analyzed for Total CaO, MgO, SiO<sub>2</sub>, MnO, K<sub>2</sub>O, Fe<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>, Na<sub>2</sub>O, TiO<sub>2</sub>, SO<sub>3</sub>, P<sub>2</sub>O<sub>5</sub>, Cr<sub>2</sub>O<sub>3</sub>, ZnO, V<sub>2</sub>O<sub>5</sub> & LOI by XRF methods.



#### 4.6. Petrographic & Mineralographic Studies

Thin and polished section studies of the outcrop samples and the core samples will be studied for detailed petrographic and mineralographic characteristics. These samples will be drawn from ore zones and associated rocks. A provision of 10 nos. specimens for petrographic and 10 nos. specimens for mineralographic studies has been kept for the proposed area.

#### 4.9. Bulk Density Determination

In addition, bulk density determination of 5 nos. of samples will be carried out for the proposed block.

#### 5. Nature Quantum and Target

Sl No.	Item of work	Unit	Quantity
<b>A</b>	<b>Detailed Geological Mapping</b>		
1	on 1:4000 Scale	Sq. Km	9.1
<b>B</b>	<b>Survey Work by surveyor days</b>		
1	Demarcation of proposed boundary, Fixation of Borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	Per point of observation	18
2	Topographic Survey and surface contouring 1:4000 scale	Sq. Km	9.1
<b>C</b>	<b>Drilling</b>		
1	Core drilling	m	600
2	Borehole Pillaring (12"x12"x30")	nos	12
<b>D</b>	<b>Chemical Analysis</b>		
i)	Core Samples + Check Samples) Chemical analysis by XRF radicals (Al <sub>2</sub> O <sub>3</sub> %, Fe%, Fe <sub>2</sub> O <sub>3</sub> %, SiO <sub>2</sub> %, P%, S%, In-solubles & LOI) + other oxides and traces	nos	660
<b>E</b>	<b>Physical Analysis</b>	<b>nos</b>	
1	Preparation of standard thin section of rock	nos	10
2	Complete Petrographic Studies	nos	10
3	Preparation of polished thin section of rock.	nos	5
<b>G</b>	<b>Bulk Density Determination</b>	<b>nos</b>	<b>5</b>
<b>H</b>	<b>Report Preparation (as per MEMC Amended Rule 2021</b>	<b>nos</b>	<b>1</b>

1. Manpower deployment

2. Break-up of expenditure

Estimated cost for Preliminary Exploration (G3 Stage) of Limestone, Ponar, Adilabad District, Telangana							
Total area: 9.10 sq km, Period of Completion: 12 months BH: 12nos 600m , review: after 5							
			Rates as per NMET		Estimated Cost of the		
			SoC 2020-21		Proposal		
S.	Item of Work *	Unit *	SoC-	Rates as per SoC (a)	Qty. (b)	Total Amount (Rs)	Remarks
			Item No.			(a*b)	
			*				
A	Geological Mapping Other Geological Work & Surveying						
	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	1.2. b	11,000	180	1980000	1:4,000 scale mapping of 9.10 sq km, BRS sampling and drilling of 12 Nos. Boreholes
ii	b. Labours Charges; Base rate (for 2 labours per Geologist	day	5.7	526	360	189360	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	1.2. a	9,000	60	540000	
	Sub Total- A					2709360	
B	Survey work						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.6.2	19,200	18	345600	Bore hole: 12 Cardinal points 6
b	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval, fixation of borehole and determination of co- ordinates & Reduced Level (RL) of the boreholes with total station etc.		1.6.1a	8,300	60	498000	For Topographical survey
c	Labours Charges for survey work;	day	5.7	526	180	94680	4 labours per day
	Sub-Total B					9,38,280	

<b>C</b>	<b>Trenching/Pitting</b>						
	<b>a) Trenchs</b>	<b>per cu.m</b>	<b>2.1.2</b>	<b>3,300</b>	<b>0</b>	<b>0</b>	
	<b>Sub Total C</b>					<b>0</b>	
<b>D</b>	<b>DRILLING (after review)- In -house</b>						
<b>1</b>	<b>Drilling up to (Soft Rock) 800x800 grid</b>	<b>m</b>	<b>2.2.1.4 a</b>	<b>7,168</b>	<b>600</b>	<b>4300800</b>	
<b>3</b>	<b>Land / Crop Compansation (in case the BH falls in agricultural Land)</b>	<b>per BH</b>	<b>5.6</b>	<b>20,000</b>	<b>12</b>	<b>240000</b>	<b>As per actuals</b>
<b>4</b>	<b>Construction of concrete Pillar (12"x12"x30")</b>	<b>per boreho le</b>	<b>2.2.7a</b>	<b>2,000</b>	<b>12</b>	<b>24000</b>	
<b>5</b>	<b>Transportation of Drill Rig &amp; Truck associated per drill (2 rig)</b>	<b>Km</b>	<b>2.2.8</b>	<b>36</b>	<b>3,340</b>	<b>120240</b>	<b>Raniganj to Ponar to and fro (1670 one way)</b>
<b>6</b>	<b>Monthly Accomodation Charges for drilling Camp (up to Rigs)</b>	<b>month</b>	<b>2.2.9</b>	<b>50,000</b>	<b>1</b>	<b>50000</b>	
<b>7</b>	<b>Drilling Camp Setting Cost</b>	<b>Nos</b>	<b>2.2.9a</b>	<b>250000</b>	<b>1</b>	<b>250000</b>	
<b>8</b>	<b>Drilling Camp Winding up Cost</b>	<b>Nos</b>	<b>2.2.9a</b>	<b>250000</b>	<b>1</b>	<b>250000</b>	
<b>9</b>	<b>Road Making (Flat Terrain)</b>	<b>Km</b>	<b>2.2.10a</b>	<b>22,020</b>	<b>1</b>	<b>22020</b>	<b>As per actuals if or when required</b>
<b>10</b>	<b>Drill Core Preservation</b>	<b>per m</b>	<b>5.3</b>	<b>1,590</b>	<b>600</b>	<b>954000</b>	
<b>11a</b>	<b>Charges for one Sampler per day</b>	<b>ne sampler per day</b>	<b>1.5.2</b>	<b>5,100</b>	<b>60</b>	<b>306000</b>	

11b	Labours (4 Nos)	day	5.7	526	240	126240	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub Total D					6643300	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)						
	a. Analysis of major oxides by XRF	Nos	4.1.15a	4,200	50	210000	
ii)	Surface Check samples (10% External)					0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	5	21000	
iii)	Trench & Check Samples from Trench					0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	0	0	
	Trench samples					0	
iv)	Trench Check samples (10% External)					0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	0	0	

v)	BH Core samples						
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	600	2520000	
vi)	BH Core samples (10%External)						
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	60	252000	
2	<u>Physical &amp; Petrological Studies</u>					0	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42320	
iii	Preparation of polish section	Nos	4.3.2	1549	5	7745	
iv	study of polished section	Nos	4.3.4	4,232	5	21160	
v	Digital Photographs	Nos	4.3.7	280	10	2800	
vii	Bulk density analysis	Nos	4.8.1	1,605	5	8025	
	SEM Studies	per hour					
viii	EPMA studies	per hour	4.4.1	8,540	0	0	
	Total E					3108580	
F	Total A to E					1,33,99,520	
G	Geological Report Preparation	5 Hard copies with a soft copy	5.2	ii		673976	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

H	Peer review Charges		As per EC decision	30,000	1	30,000	
I	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs which ever is less		267990.4	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
J	Total Estimated Cost without GST					1,43,71,486	
K	Provision for GST (18% of J)					2586867.55	GST will be reimburse as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST					1,69,58,354	
				Rs. In Lakhs	169.583539		
					5		
Note							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of						

	India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.

Time Schedule/ Action Plan for Preliminary Exploration (G3 Stage) of Limestone, Ponar, Ponar District, Telangana.													
	Months												
Item of work	1	2	3	4	5	REVIEW	6	7	8	9	10	11	12
Camp Setup													
Large Scale Mapping (1:4000													
Bed Rock Sampling													
Chemical analysis of surface samples													
systematic drilling at 800x800 Grid													
Core sampling and its preparation													
Chemical analysis of Core Samples													
Processing of Analytical data													
Preparation of geological report													

#### Reference:

GSI report: GEOLOGY OF THE PENGANGA GROUP ADILABAD TALUK, ADILABAD DISTRICT, ANDHRA PRADESH (PROGRESS REPORT FOR THE FIELD SEASON 1973-74)

#### List of Plates

Plate 1: Proposed Ponar boundary over Geological map with BRS sample result.

Plate 2: proposed Borehole point map

Plate 3: Proposed block boundary over Survey of India topographic map 56I/14 on 1:50,000.



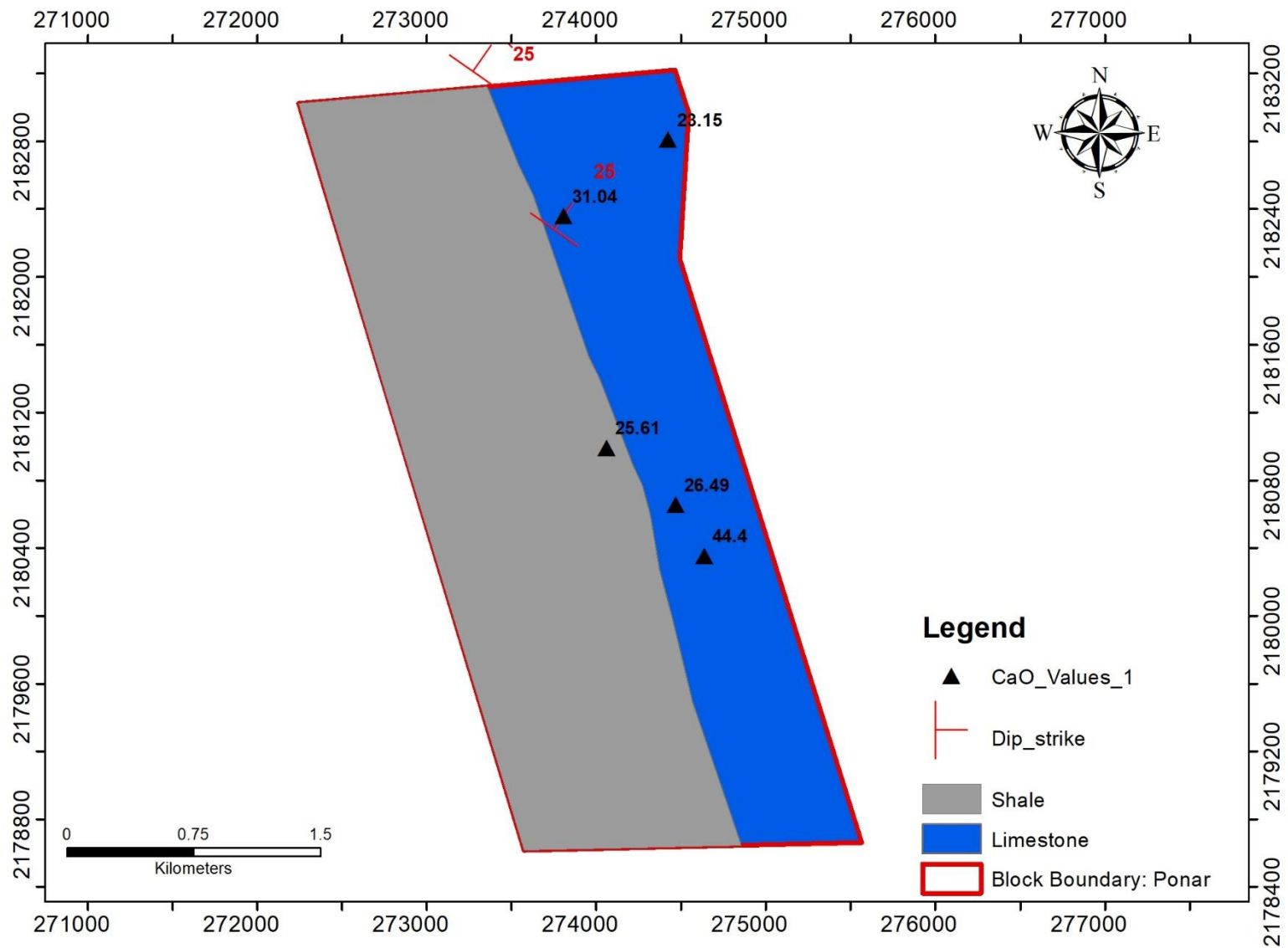


Plate 1 Proposed Ponar boundary over Geological map with BRS sample result.

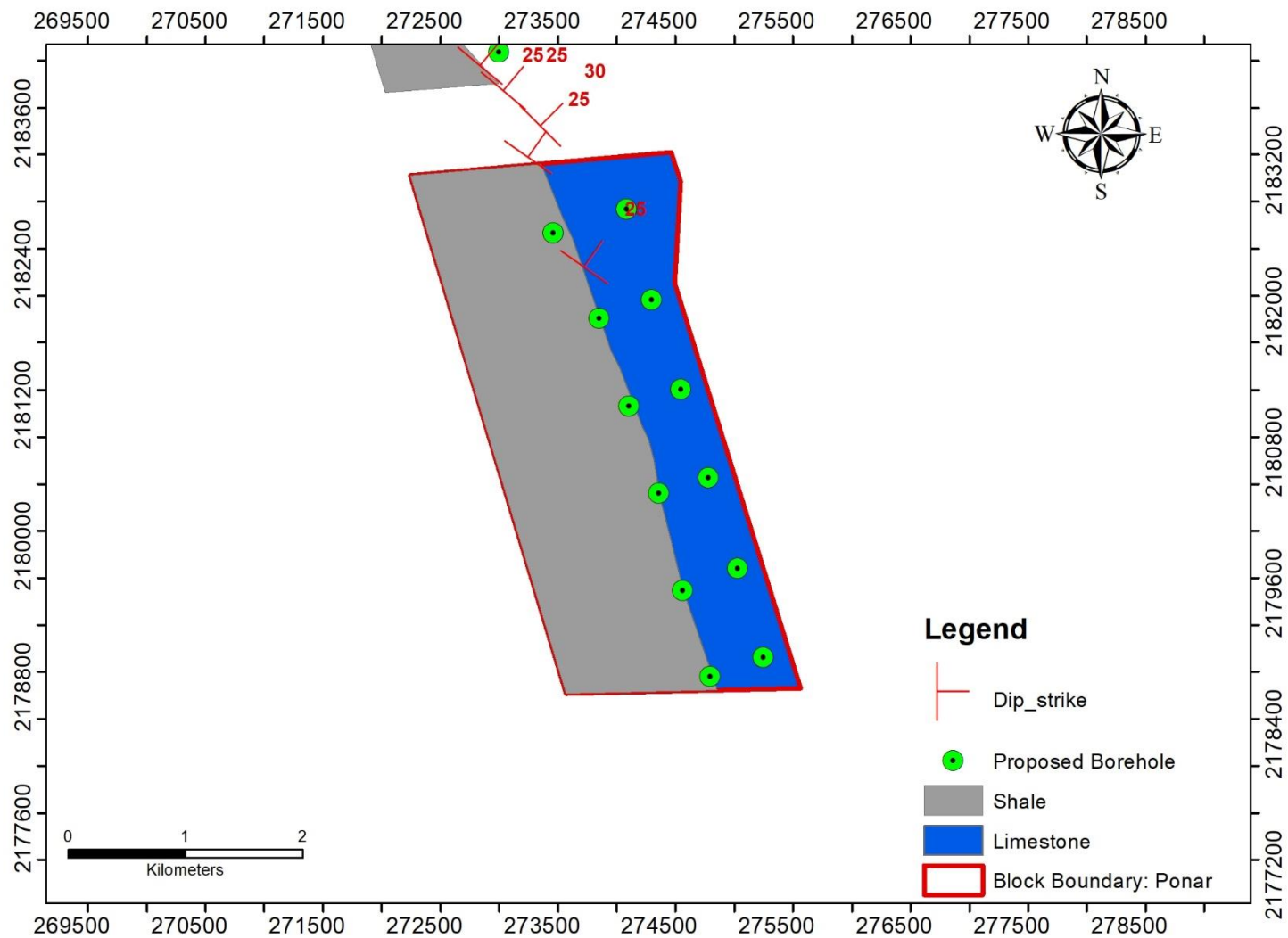


Plate 2 proposed Borehole point map

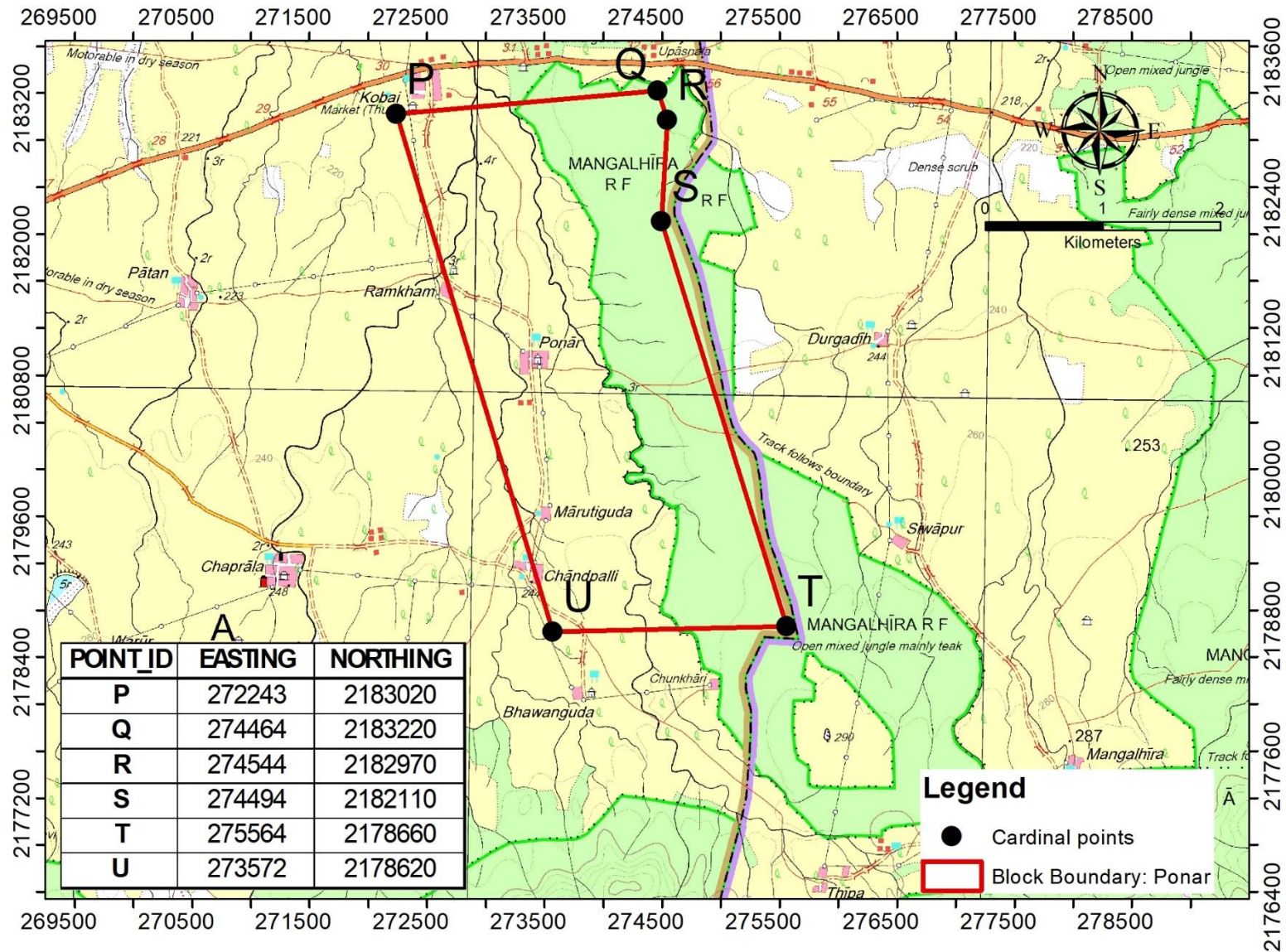


Plate 3 Proposed block boundary over Survey of India topographic map 56I/14 on 1:50,000.