

**Proposal for Preliminary Exploration (G3 Stage) of Limestone in
Dithur, Dima Hasao District, Assam under NMEDT**

Commodity: Limestone

By

MMPL Private Limited

Place: Kolkata

Date: June-2026

Maheshwari
Technologies. Ecological Mining.

1 Summary of the Block G3 Stage Exploration

Features	Details
Block ID	Preliminary Exploration (G3 Stage) of Limestone in Dithur, Dima Hasao District, Assam under NMEDT
Current Exploration Agency	MMPL Private Limited
Previous Exploration Agency	Geological Survey of India, MMPL Private Limited
G3 stage Geological Report (Previous stage Geological Report)	1. Final Report on Preliminary Exploration for Limestone in North Boro Hundong Block, Dima Hasao district, Assam (Field Season 2019-20) By Vijit Thakur, Geologist & Saurabh Jayaswal, Geologist. 2. Final Report on Preliminary exploration for Limestone in South Boro Hundong Block, Dima Hasao District, Assam (G3) (Field Season, 2019-20) By Rajkumar Tapon Kumar, Senior Geologist & Ved Prakash, Geologist. 3. Geological Report on Preliminary Exploration (G3 Stage) For Limestone in Northwest of Boro Lakhindong, Dima Hasao District, Assam.
Commodity	Limestone
Mineral Belt	Sylhet Limestone Member of Shella formation of Tertiaries of Assam
Completion Period with entire time schedule to complete the project	12 months
Objectives	Objectives of the Preliminary Exploration (G3) in Sikiliangso limestone Block over an area of 4.26 sq. km. as follows: 1. Detailed Geological mapping on 1:4000 scale of limestone bearing zones along with other lithologies and study of its nature of mineralization. 2. Based on the outcome of the geological mapping and surface sampling, 10 vertical boreholes at 800 m spacing will be planned. 3. Chemical Analysis of Surface & Core samples. 4. Assesment of Resource, Grade and mineral content in G3 level as per Minerals (Evidence of Mineral Contents) Rule 2015.
Whether the work will be carried out by the proposed agency or through out-sourcing and details thereof. Components to be outsourced and name of the out-sourced agency	The work will be carried out by proposed agency
Name/Number of Geoscientists	In field: Two Geologists. At Headquarters: Two Geologists
Expected Field days (Geology) Geological Party Days	Item execution duration 12 Months and actual field days of field geologist 120 days for two Geologist and 60 days for HQ.

2	Location	Point_id	Latitude	Longitude X
		C	25° 28' 8.52" N	092° 41' 39.43" E
		D	25° 26' 56.52" N	092° 40' 32.17" E
		E	25° 27' 26.21" N	092° 40' 1.15" E
		F	25° 28' 6.56" N	092° 40' 39.86" E

	Villages	Boro Lakhindong
	Tehsil/Taluk	Umrangso Sub Division
	District	Dima Hasao
	State	Assam
2.	Area (hectares/square kilometres)	
	Block Area	2.81 sq km
	Forest Area	NA
	Government Land Area	NA
	Private Land Area	NA
3.	Accessibility	
	Nearest Rail Head	Lanka Railway station
	Road	NH-627, SH-20
	Airport	Lokapriya Gopinath Bardoloi International Airport (LGBIA) Airport, Guwahati, Assam
4.	Hydrography	
	Local Surface Drainage Pattern (Channels)	Dendritic pattern
	Rivers/Streams	Main river of this area is Kopili River which is flowing along the southwestern corner of the block.
5.	Climate	
	Mean Annual Rainfall	The average annual rainfall ranges 220 to 300 cm.
	Temperatures (December)(Minimum) Temperatures (June)(Maximum)	Dry weather prevails during November to March.
6.	Topography	
	Toposheet Number	83C/11
	Morphology of the Area	Numerous low mounds scattered all around. Extensive dissolution of limestone has led to the development of karst topography in the area. Sinkholes, caves, gully like features are common in the limestone.

7	Availability of base line geoscience data	
	Geological Map (1:50k)	Available
	Geochemical Map (1:50k)	Available
	Geophysical Map (Aeromagnetic, ground geophysical, Regional as well as local scale GP maps)	Available (Regional Scale)
8.	Justification for taking up	Justification for taking up the investigation in G3 stage:

	Preliminary Exploration (G3)	1. The vast tract of Assam and Meghalaya is occupied with a package of Cretaceous-Tertiary sedimentary sequence. The proposed block area is occupied by Upper Sylhet Limestone Member of Shella Formation. This formation belongs to Jaintia Group of Palaeocene-Eocene of Assam. Upper Sylhet Limestone is underlain by Upper Sylhet Sandstone and overlain by Kopili Formation. Upper Sylhet Sandstone member is composed of medium grained grey sandstone with coal streaks, dark shale and specks of pyrite. Upper Sylhet Limestone is constituted of light grey to dark grey highly fossiliferous compact limestone and Kopili Formation is composed of grayish shale, marl and reddish brown sandstone with phosphatic nodules in the lower part. 2. To the West of this block North Boro Hundong Block is located which is explored by Thakur and Jayaswal (2019-20) and a resource of 474.8 million tonnes limestone established. Resource of limestone was estimated with the help of eight boreholes, in which the thickness of intercepted limestone varies from 36.36m to 95.54m. Out of total estimated resource of 474.8 million tonnes 178.53 million tonnes categorized under portland cement[CaO:44-52% and MgO:3.5%(max)], and 195.4 million tonnes under Blendable/Beneficiable cement [(CaO:38-44% and MgO:4%(max))] and rest quantum is under 'Unclassified'. 3. To the West of this block South Boro Hundong Block is located which is explored by Rajkumar Tapon Kumar, Senior Geologist & Ved Prakash, Geologist (2019-20) and 592.63 million tonnes of limestone resource (categorized under 333 of UNFC classification) is estimated. Grade wise resources estimated as per the chemical analytical results is 241.25 million tonnes of Cement (Portland), 196.68 million tonnes of Cement (Blendable/Beneficiable), and 154.70 million tonnes of Unclassified or Others category. 4. A total 498.96 million tonnes of limestone resource (categorized under 333 of UNFC classification) is estimated from Northwest of Boro Lakhindong Block explored by MMPL Pvt. Ltd. Further, Grade wise resources are estimated. 195.29 million tonnes of Cement (Portland) grade, 144.40 million tonnes of Cement
--	-------------------------------------	--

		(Blendable / Beneficial) grade, 155.68 million tonnes of SMS (OH) grade and 3.58 million tonnes of Unclassified or Others category. These lithological units are horizontal to sub-horizontal in attitude with strike varying from NNE-SSW to NE-SW dipping at 2-3°southeasternly. 5. Representative limestone samples collected from the northeastern, central, and southwestern parts of the proposed block have returned encouraging analytical results. Sample DHLST/L8 recorded 52.26% CaO, 0.81% MgO, and 1.36% SiO₂, Sample DHLST/L7 recorded 45.83% CaO, 1.28% MgO, and 3.25% SiO₂, while Sample DHLST/L9 recorded 41.12% CaO, 0.91% MgO, and 5.44% SiO₂. These results indicate the presence of carbonate-rich lithologies with favourable chemical characteristics and relatively low impurity levels. The occurrence of fossiliferous limestone at multiple locations across the block, coupled with the favourable regional geological and structural setting, suggests the continuity and persistence of limestone-bearing horizons. The positive analytical results obtained from geographically distributed sample locations further strengthen the evidence for widespread limestone mineralization within the area. Therefore, considering the favourable regional structure, observed limestone occurrences, and encouraging geochemical analytical results, the proposed block is justified for detailed exploration to establish the thickness, lateral continuity, grade variation, and resource potential of the limestone deposit.
--	--	--

Table 1: Analytical results of bedrock samples of the proposed block

Sample ID	Al ₂ O ₃	CaO	Fe (T)	Fe ₂ O ₃	K ₂ O	MgO	MnO	P ₂ O ₅	SO ₃	SiO ₂	LOI
DHLST/L7	2.10	45.83	4.82	6.89	0.14	1.28	0.59	0.16	0.63	3.25	38.88
DHLST/L8	0.95	52.26	0.72	1.03	0.05	0.81	<0.05	<0.05	0.10	1.36	43.20
DHLST/L9	2.04	41.12	9.57	13.68	0.09	0.91	0.49	0.19	0.57	5.44	35.10

Detailed description on the following titles to be made in the proposal.

1. Block Summary

Physiography: The geological set up of the area controls the physiography of the area. Numerous low mounds scattered all around and a few small hillocks are there. Extensive dissolution of limestone has led to the development of karst topography in the area. Sinkholes, caves, gully like features are common in the limestone.

Climate: The region has a tropical monsoon climate, characterized by high humidity and distinct seasonal changes. The average annual rainfall ranges 220 to 300 cm, making it a region with substantial precipitation. The rainy season lasts from mid-May to September, bringing heavy downpours and contributing to the lush vegetation in the area. October and November are relatively cooler, offering a brief respite from the intense rains. However, during the winter months, from December to February, the climate becomes significantly colder, with temperatures ranging from 2°C to 10°C, making it quite chilly. During the summer times, the temperature ranges from 24° to 30°C (Source from <https://mausam.imd.gov.in/>).

2. Background Geology (Regional Geology, Geology of the Block):

The area under investigation is part of Meghalaya Plateau, which is considered to be an uplifted horst like feature bounded by the East-West Dawki and Brahmaputra Fault. The plateau consists of rocks of Assam-Meghalaya Gneissic Complex, metasedimentary rocks of Shillong Group, mafic igneous rocks, Pan-African Granite plutons, Sylhet Traps, alkaline-carbonatite-ultramafic complex (Barpung-Tarapung, Samchampi, Jashora and Sam Teran in Assam and Sung Valley and Mawpyut in Meghalaya) and Cretaceous-Tertiary sediments.

Regional stratigraphic succession of the area is as follows:

AGE	GROUP	FORMATION/ROCK TYPE
Holocene	Newer Alluvium	Sand, Silt and Clay
Pleistocene	Older Alluvium	Sand, Clay, Pebble, Gravel & Boulder deposits
Pliocene - Pleistocene	Dupitila	Dupitila - Siltstones, clays, conglomerates
Mio - Pliocene	Garo Group	Chengapara/ Barengapara/ Boldamgiri/ Angortoli - Siltstones, clay and minor calcareous bands
Miocene		Baghmara Formation/Dalu - Siltstones, conglomerates & minor sandstones
Eocene - Oligocene		Simsang Formation/ Chokpotgiri Formation (Khasi Hills) - Siltstones & mudstone
Palaeocene - Eocene	Jaintia Group	Kopili Formation- Shale minor sandstones Shella Formation - Sandstone & minor coal LangparFormation - Calcareous sandstones
Late Cretaceous -Early Tertiary	Sung (Khasi Hills) Alkaline complex	Pyroxenite, ijolite, syenite & carbonatite

Late Cretaceous	Khasi Group	Mahadek Formation- sandstone Bottom Conglomerate - conglomerate Jadukata Formation - sandstone
Jurassic - Cretaceous	Sylhet Trap	Basic Volcanics
Late Carboniferous - Permian	Lower Gondwana (Garo Hills)	Karharbari Sandstone and minor coal Talchir Formation
Neoproterozoic -	Kyrdem, Nongpoh,	Pink and grey porphyritic granitoids with mafic (boninite plutonic equivalents),
Early Paleozoic	Mylliem granite, South Khasi Batholith, Seindhuli	Diorite, granodiorite or mangerite/ gabbroic anorthositic early differentiates.
Mesoproterozoic (?) (1450 & 1462 Ma)	Basic Intrusives	Norite, noritic gabbro and diorite
Meso- Proterozoic (<2500 M.a.)	Shillong Group	Quartzite, phyllite, with minor metarhyolite, tuffs and conglomerates
Paleo to MesoProterozoic (1150 to 1714 + 44 Ma)	Meghalaya - Assam Gneissic Complex	Pink granite & augen gneisses, charnockitic gneiss and charnockites
Paleo to Meso Proterozoic (?)	Umsning Schist Belt	Quartz mica schist, micaceous quartzite, black biotite quartzite and carbonaceous phyllite/graphitic schist, quartz hornblende biotite schist with sillimanite, sillimanite rock, etc.
Archaean - Early Proterozoic (?)	Older Gneisses (2230+13 to 2637+55 Ma)	Grey dioritic gneiss & tonalitic granulite
	Older Basic Intrusives	Basic granulite occasionally associated with magnetite & cordierite- spinel-sphene granulite; anthophyllite-sapphirine & tremolite-actinolite with hornblende rocks
	Riangdo or Sonapahar High-Grade Metasedimentaries	Sillimanite-corundum rocks, sapphirinespinel bearing rocks, sillimanite quartzite, garnet sillimanite quartzo feldspathic rock, sillimanite ferruginous schist (Khondalite?), BMQ, calc granulite & chert (occurring as caught up patches and enclaves in gneisses).
- Basement unknown -		

In the study area: Present block exposes the sedimentary rocks comprising Shella and Kopili Formations of Jaintia Group of Eocene age. The Upper Sylhet Limestone member of Shella Formation is exposed in most part of the block. The remaining area is covered by shale, sandstone and marl of Kopili Formation mainly to the eastern part of the block. The contact between the two is gradational.

Lower Sylhet Sandstone and Upper Sylhet Sandstone are not exposed on surface but encountered in boreholes (Thakur and Jaiswal, 2021). Upper Sylhet Limestone comprises thickly bedded, light to dark grey, fossiliferous and compact limestone. Extensive dissolution of limestone has led to the development of karst topography in the area.

Lithostratigraphic succession of the proposed area is as follows:

Age	Group	Formation	Member	Lithology
Palaeocene-Eocene	Jaintia Group	Kopili Fmn.		Greyish shale, marl, reddish brown sandstone. Lower part has phosphatic nodules
		Shella Fmn.	Upper Sylhet Limestone	Light grey to dark Grey highly fossiliferous compact limestone
			Upper Sylhet Sandstone	Medium grained greysandstone with coal streaks, dark shale and specks of pyrite

3 Mineralisations

The limestone is of marine origin, bioclastic, and was deposited as cemented shell fragments and biologically derived precipitates in a euxinic environment on a stable shelf. The Sylhet Limestone, which is exposed in the Mikir, Garo, Khasi and Jaintia Hills, was deposited in a shallow, open marine, warm water environment (Bhandari et al., 1973). The mineralization exhibits a bedded sedimentary nature, formed by the accumulation of loose shells from dead marine organisms. Over time, these shells were transformed into bioclastic limestone through the addition of a chemically precipitated carbonate cement that binds the shell fragments together.

4 Mineral potentiality based on geology, geophysics, ground geochemistry etc

In North Boro Hundong block, considerable resource potential of cement grade limestone has been established with the available data. Total net resource of all grades of limestone is 474.78 million tonnes (under 333 of UNFC classification) with 195.40 million tonnes under Cement (Blendable/Beneficial), 178.53 million tonnes under Cement (Portland) and 100.85 million tonnes under Unclassified category.

In the G3 stage of investigation in the South Boro Hundong Block, total net resource of all grade limestone calculated from all the 09 boreholes of the block as per UNFC classification class 333 is estimated to be 592.63 million tonnes with 196.68 million tonnes under Cement (Blendable/Beneficial), 241.25 million tonnes under Cement (Portland) and 154.70 million tonnes under unclassified or others category.

In the G3 stage of investigation in the Northwest of Boro Lakhindong Block, total net resource of all grade limestone calculated from all the 05 boreholes of the block as per UNFC classification class 333 is estimated to be 498.97 million tonnes with 144.40million tonnes under Cement (Blendable/Beneficial), 195.29 million tonnes under Cement (Portland), 155.68 million tonnes of SMS (OH) grade and 3.58 million tonnes under unclassified or others category.

5 Scope for proposed exploration:

- 5.1 To map the mineralized zone with the help of fieldwork.
- 5.2 Borehole planning will be done on the basis of available lithotype and present surface work; chemical analysis of surface and core samples to delineate the lithological thickness of mineralized zone.
- 5.3 The objective of this project is to estimate the resource of limestone with the help of subsurface results in the area & demarcation of its zone.

6 Previous Work:

Available information on the work carried out in adjoining area has already been discussed under previous point.

7 Block Description

Point_Id	Latitude	Longitude
C	25° 28' 8.52" N	092° 41' 39.43" E
D	25° 26' 56.52" N	092° 40' 32.17" E
E	25° 27' 26.21" N	092° 40' 1.15" E
F	25° 28' 6.56" N	092° 40' 39.86" E

7.1 Planned Methodology

In accordance with the objectives set for preliminary exploration (G3 level of exploration) in Sikilangso Block, Dima Hasao District, Assam geological mapping in 1:4000 scale, surface sampling, 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) Rules-Amended in 2021. Accordingly, the details of different activities to be carried out are presented in subsequent paragraphs.

7.2 Topographic Surveying

Topography survey will be carried in the area (4.26sq. km) and all the surface features will be marked in the 1:4000 scale plans. 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.

7.3 Geological Mapping

Geological mapping on 1:4000 scale in the area (4.26sq. km) will be carried out by taking geological traverses. The contacts of different lithologies, 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.

7.4 Borehole plan:

Vertical boreholes are to be planned in 800 m spacing.

7.5 Core Drilling

Based on the outcome of the geological mapping, 10 Nos of vertical boreholes will be proposed. The total 1000 m core drilling is being proposed over the area 4.26 Sq Km sq to identify the mineralized area.

7.6 Core Logging

The drill cores would be logged systematically viz. details of litho-units, colour, structural feature, texture, mineralization, rock quality designation and type of ore would be recorded.

7.7 Core Sampling

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 200 mesh size and the same would be divided into four parts (250 g each) through coning and quartering. One part of 250 g 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 be kept as either check sample or sample to be used for any other specific purpose.

The length of each core sample will be kept 0.50 m-1.0 m depending upon the width of particular types of ore and its physical character. The primary core samples will be analyzed for Major oxides and traces including LOI by XRF methods.

Some samples would be analyzed by ICPMS to ascertain the presence of any critical mineral in anomalous concentration.

7.8 Petrographic & Mineralographic Studies

Thin and polished sections will be prepared from outcrop samples and the core samples and those will be studied for detailed petrographic and mineralographic characteristics. These samples will be drawn from ore zones and associated rocks. A provision of 5 nos. specimens for petrographic studies is kept for the proposed area.

Bulk Density Determination

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

8 Nature Quantum and Target for G3 stage

Quantum of work for Preliminary Exploration (G3 Stage)			
Sl No.	Item of work	Unit	Quantity
A	Detailed Geological Mapping		
1	on 1:4000 Scale	sq. km	2.81
B	Survey Work by surveyor days		
1	Topographic Survey and surface contouring 1:2000 scale	sq. km	2.81
2	Demarcation of proposed boundary, Fixation of Borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	Per point of observation	4+7=11
D	Surface sampling		
1	Bedrock Sampling+Pitting	Nos	50+10=60
2	Pitting	Cubic meter	10
E	Drilling		
1	Core drilling	m	840 (7 vertical boreholes-avg depth-120m.)
2	Borehole Pillaring (12"x12"x30")	nos	10
E	Chemical Analysis		
i)	Surface samples + Core Samples + 10% Check Samples) Chemical analysis by XRF radicals (Borehole sample-700 Bedrock-50 Pitting Sample-10 Check samples-76 total samples-836	nos	836
F	Physical Analysis	nos	
1	Preparation of standard thin section of rock	nos	5
2	Complete Petrographic Studies	nos	5
3	Preparation of polished thin section of rock.	Nos	5
G	Bulk Density Determination	nos	5
H	3D ore body modelling using compatible software		
I	Report Preparation (as per MEMC Amendment Rule 2021/UNFC)	nos	1

References

- Final Report on Preliminary Exploration for Limestone in North Boro Hundong Block, Dima Hasao district, Assam (Field Season 2019-20) By Vijit Thakur, Geologist & Saurabh Jayaswal, Geologist.
- Final Report on Preliminary exploration for Limestone in South Boro Hundong Block, Dima Hasao District, Assam (G3) (Field Season, 2019-20) By Rajkumar Tapon Kumar, Senior Geologist & Ved Prakash, Geologist.
- Geological Report on Preliminary Exploration (G3 Stage) For Limestone in Northwest of Boro Lakhindong, Dima Hasao District, Assam.
- Geological Survey of India (2023). Preliminary Exploration for Limestone in Sikilangso Block, Dima Hasao District, Assam (Stage G-3), Toposheet No. 83C/11, Item No. M2ASMIF-MEP/NC/NER/ASM/2022/41198, Report for Field Season 2022–23. Geological Survey of India, North Eastern Region, Ministry of Mines, Government of India.

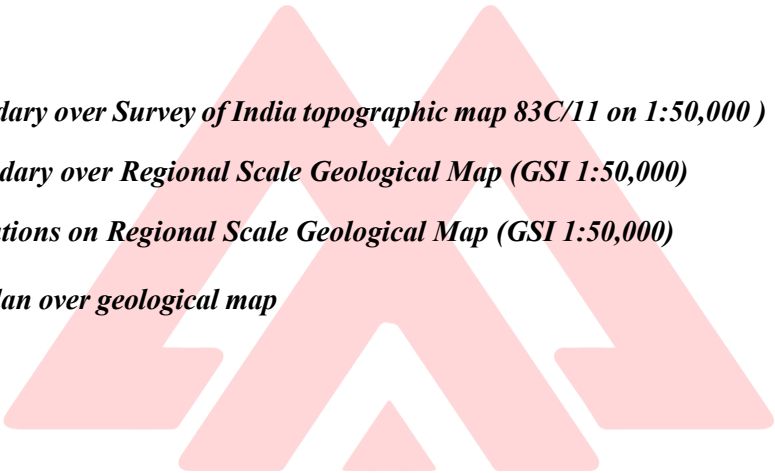
List of Plates

Plate 1 Proposed block boundary over Survey of India topographic map 83C/11 on 1:50,000)

Plate 2 Proposed block boundary over Regional Scale Geological Map (GSI 1:50,000)

Plate 3 Bed rock sample locations on Regional Scale Geological Map (GSI 1:50,000)

Plate 4 Proposed Borehole Plan over geological map



Maheshwari
Global Technologies. Ecological Mining.

TOPOSHEET MAP OF DITHUR LIMESTONE BLOCK ASSAM

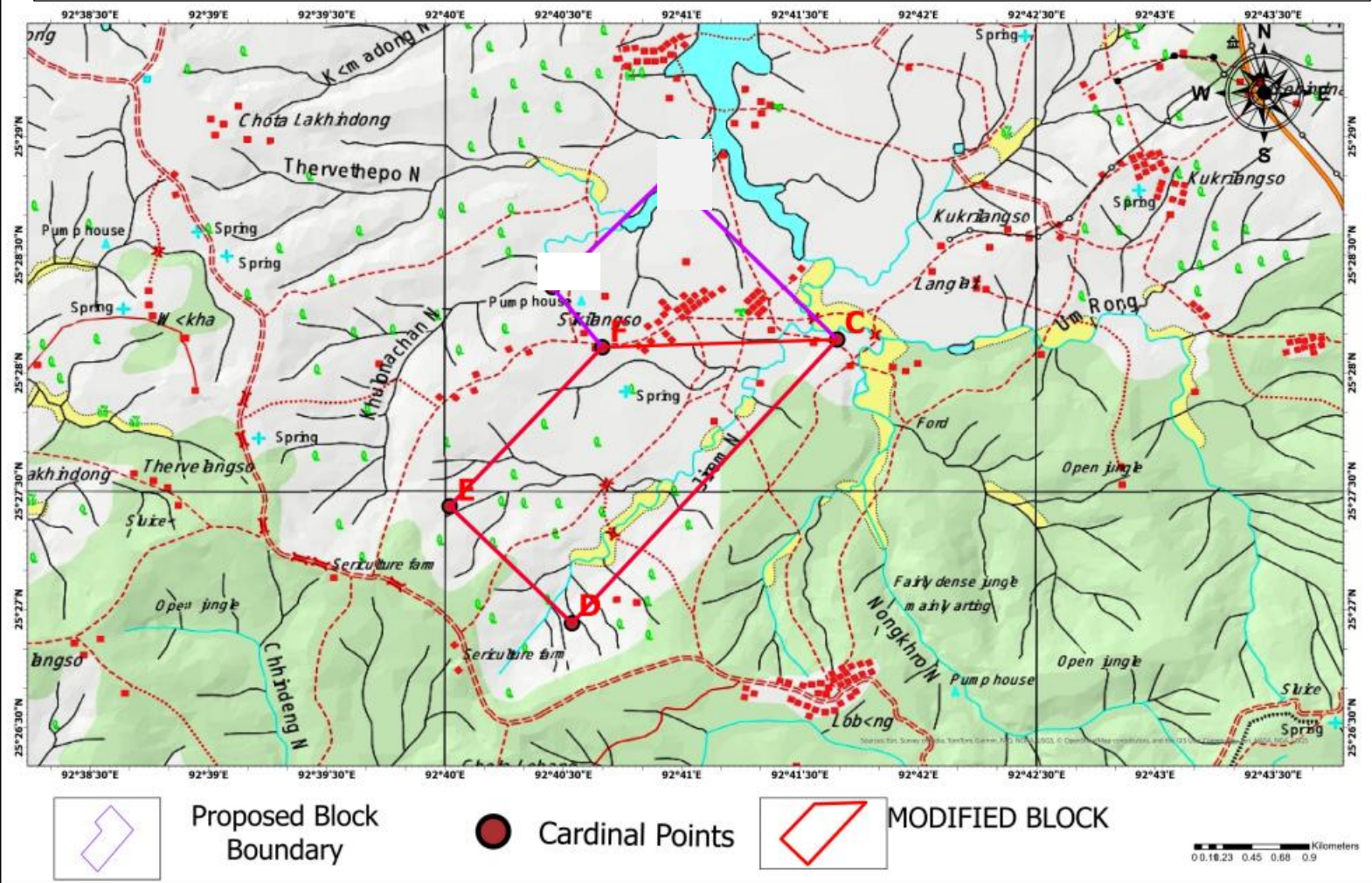


Plate 1 Proposed block boundary over Survey of India topographic map 83C/11 on 1:50,000

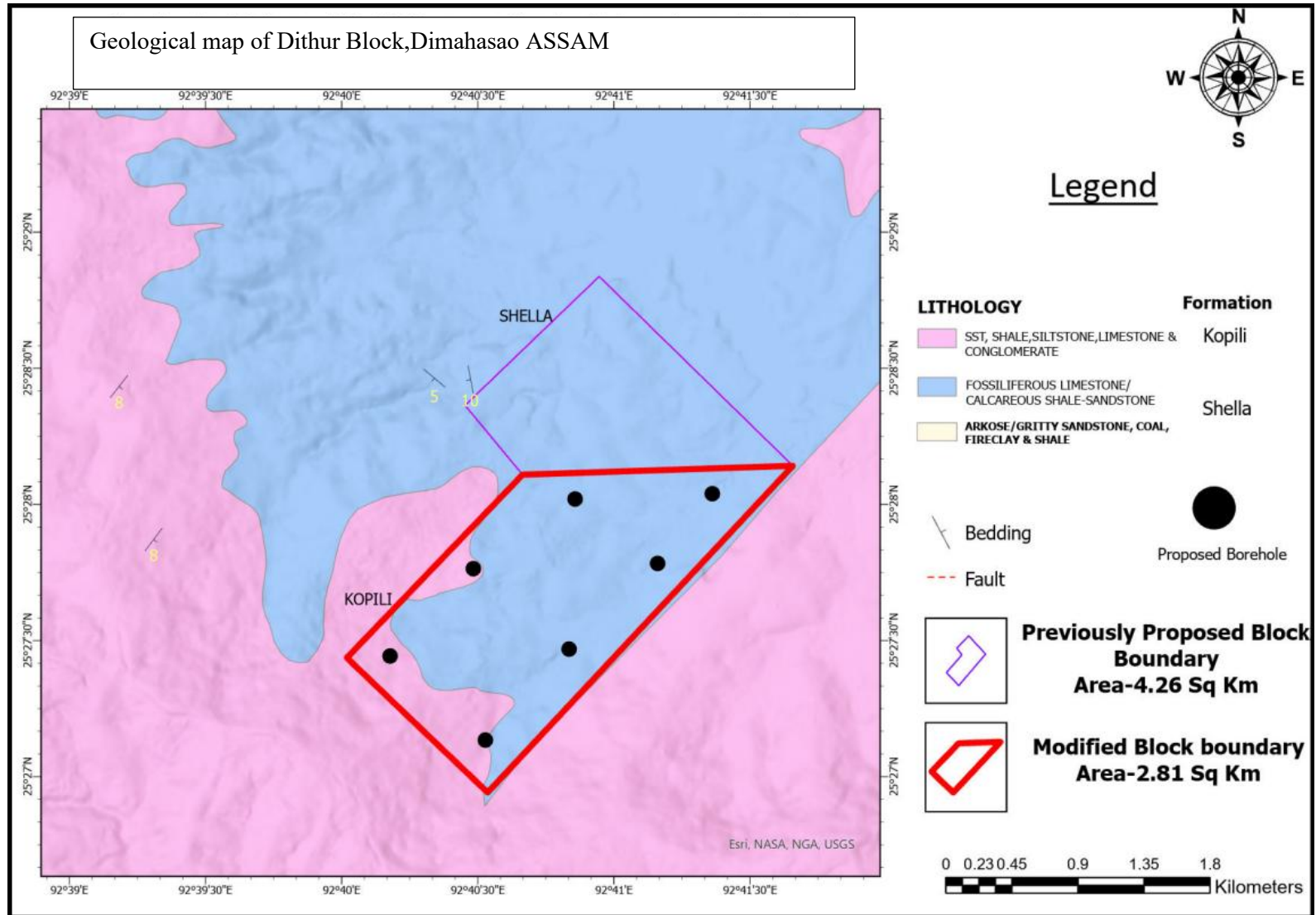


Plate 2 Proposed block boundary over Geological Map (GSI 1:50,000)

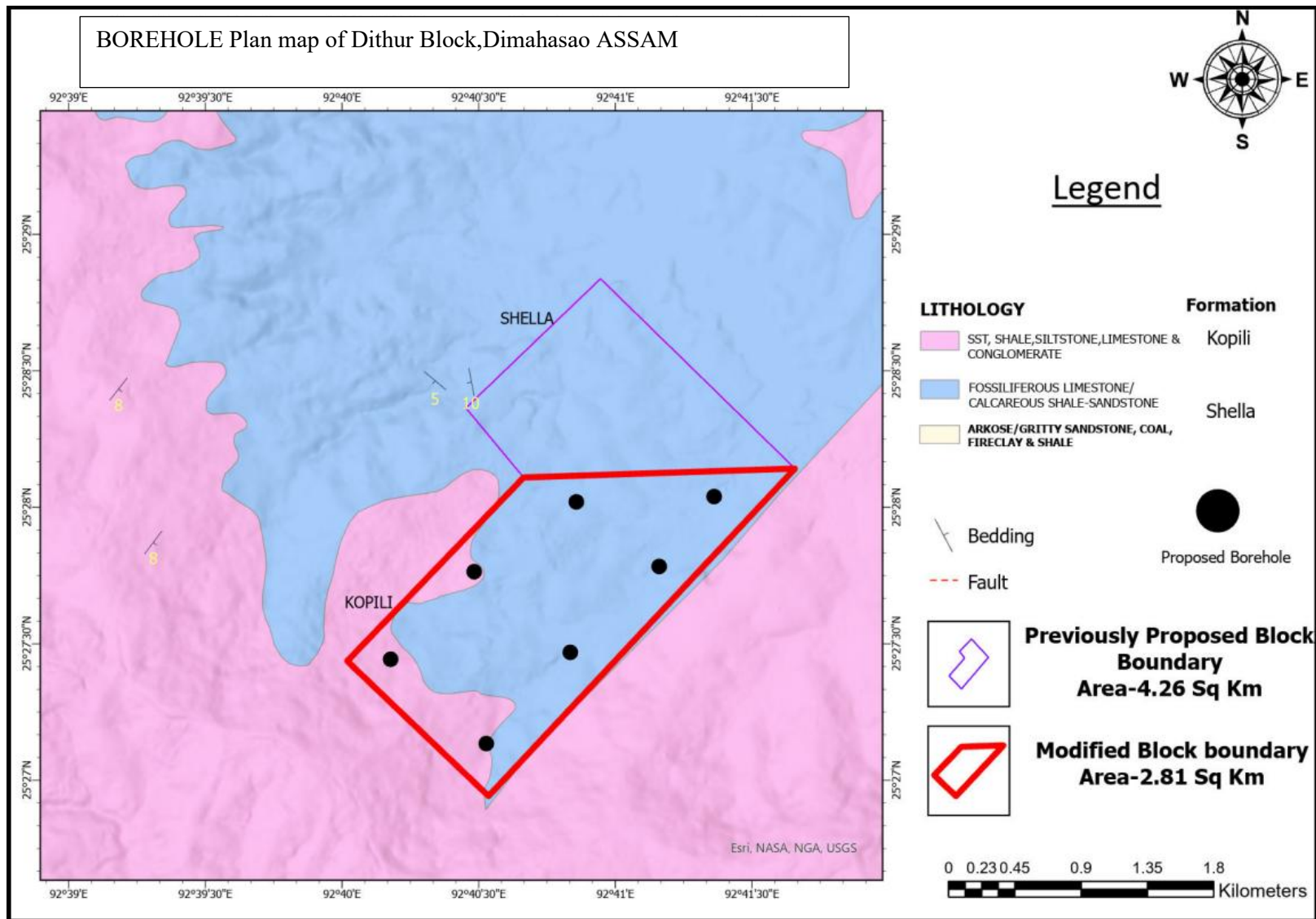


Figure 1-proposed borehole location plan

Cost Estimate - Title PRELIMINARY EXPLORATION (G3 STAGE) OF LIMESTONE IN Dithur BLOCK, DIMAHASAO DISTRICT, ASSAM

Area 2.81 sq. km, No. of BH: 7, Borehole depth - 750 m; Schedule & timeline- 10 months Review: After 4 Months

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal			Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Total Amount multiplying 1.5X (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying							
	Detailed Geological mapping, (1:4000 scale) & Trenching, drilling work	Per Sq Km	1.1	18,300	2.81	51,423	77,135	
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1 a	14,500	100	14,50,000	21,75,000	
ii	b. Labours Charges; Base rate	day	5.8	556	200	1,11,200	1,66,800	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	1.2.1 a	10,500	40	4,20,000	4,20,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	84	6,59,400	9,89,100	
	e. Labours (4 Nos)	day	5.8	556	336	1,86,816	2,80,224	
	Sub Total- A					28,78,839	41,08,259	
B	Survey work							

a	DGPS Survey for BH fixation & RL determination and lease boundary demarcation	Per Point of observation	1.3.2	24,000	11	2,64,000	3,96,000	4 Cardinal points +7 BH points
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.	one surveyor per day	1.3.1	10,500	40	4,20,000	6,30,000	
c	Labours Charges for survey work;	day	5.8	556	160	88,960	1,33,440	
	Sub-Total B					7,72,960	11,59,440	
D	DRILLING IN HOUSE (after review)							
1	Systematic Drilling up to 300m (soft Rock)	m	2.2.1.1e	5,500	750	41,25,000	61,87,500	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	7	2,10,000	3,15,000	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	10	22,000	33,000	
5	Miscellaneous Charges (Drill camp setting / transporation etc.)	Lumpsum	2.2.9		-	8,25,000	12,37,500	For drilling cost upto 50 lakhs, 1.50 lakhs
	drill core preservation	m	5.3	1,590	700	11,13,000	16,69,500	
	Sub-Total D					51,82,000	94,42,500	
E	LABORATORY STUDIES							
1	Chemical Analysis							

[illegible]

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.
*	SoC Item No, Unit and Rate for each item of work must be as mentioned in the SoC.