PROPOSAL FOR PRELIMINARY EXPLORATION (G-3 STAGE) FOR LIMESTONE IN PEDAVEEDU EAST BLOCK, DISTRICT - SURYAPET, STATE – TELANGANA

COMMODITY: LIMESTONE

BY

MINEREAL EXPLORATION CORPORATION LIMITED

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SEMINARY HILLS

PLACE: NAGPUR

DATE: 19th June 2025

Summary of the Block for Preliminary exploration (G-3 Stage)

GENERAL INFORMATION ABOUT THE BLOCK

	Features	**Details**
	Block ID	Pedaveedu East block
	Exploration Agency	Mineral Exploration and Consultancy Limited (MECL)
	Commodity	Limestone
	Mineral Belt	-
	Completion Period with entire Time schedule to complete the project	7 months
	Objectives	i. To carry out detailed Topographical Survey and Geological mapping on 1:4000 scale over an extent of 4.17 sq. km. ii. To delineate the strike and depth continuity of the limestone by drilling vertical boreholes in 800 m X 800 m grid. iii. To carry out exploration as per Minerals (Evidence of Mineral Contents) Rule-2015 & Mineral (Auction) Rules-2015 (Amended upto 2021). iv. The proposed exploration programme will be helpful in demarcating zone of various grades of limestone in the block as per UNFC norms and estimation of limestone resources which in turn will facilitate the State Govt. for auctioning of the Block.
	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	Work will be carried out by the proposed agency. Drilling will be outsourced.
	Name/ Number of Geoscientists	two nos. of Geoscientist (1 Field + 1 HQ)
	Expected Field days (Geology) Geological Party Days	Geologist Party Days: 70 Days for filed and 30 HQ Party days (One geologist)
1.	**Location**	

Coordinates of the corner points of Pedaveedu East Block Boundary (4.17 Sq. Km), District: Suryapet, Telangana

Corner Point	Datum: WGS 1984 Coordinate in D M S system		
	Longitudes	Latitude	Area
A	079° 51' 31.46" E	16° 44' 5.24" N	4.17 Sq. Km
B	079° 51' 20.96" E	16° 42' 59.68" N	
C	079° 51' 31.07" E	16° 42' 54.85" N	

D	079° 51' 41.24" E	16° 42' 49.99" N	
E	079° 51' 46.63" E	16° 42' 48.83" N	
F	079° 51' 53.51" E	16° 42' 54.8" N	
G	079° 51' 57.96" E	16° 43' 4.99" N	
H	079° 51' 59.0" E	16° 43' 9.3" N	
I	079° 51' 42.9" E	16° 43' 12.7" N	
J	079° 51' 50.86" E	16° 43' 22.65" N	
K	079° 52' 0.26" E	16° 43' 34.68" N	
L	079° 52' 4.4" E	16° 43' 39.91" N	
M	079° 52' 5.71" E	16° 43' 38.8" N	
N	079° 52' 8.5" E	16° 43' 40.9" N	
O	079° 52' 13.48" E	16° 43' 33.97" N	
P	079° 52' 14.32" E	16° 43' 32.81" N	
Q	079° 52' 46.87" E	16° 44' 21.65" N	
R	079° 51' 56.23" E	16° 44' 40.93" N	
S	079° 51' 44.3" E	16° 44' 25.98" N	
T	079° 51' 39.83" E	16° 44' 20.94" N	
U	079° 51' 38.9" E	16° 44' 2.96" N	

	Villages	Peddaveedu, Gundlapally, Dondapadu
	Tehsil/ Taluk	Peddaveedu East block lie in Matampally mandal
	District	Suryapet
	State	Telangana
2.	**Area (hectares/ square kilometers)**	
	Block Area	4.17 sq km
	Forest Area	Data Not Available
	Government Land Area	Data Not Available
	Private Land Area	Data Not Available
3.	**Accessibility**	
	Nearest Rail Head	Miryalaguda Railway station is 60km from the proposed block.
	Road	Block is of about 40 km away from National Highway No. 9 connecting Vijayawada- Hyderabad.
	Airport	Vijayawada airport is the main City which is at a distance of 135 km
4.	**Hydrography**	
	Local Surface Drainage Pattern (Channels)	seasonal nalas flowing north to south and joining the river Krishna which is located at about 3 kms to the south.
	Rivers/ Streams	Krishna river which is perennial.
5.	**Climate**	
	Mean Annual Rainfall	The average annual rainfall is around 800 mm rainy season from June to November

	Temperatures (December) (Minimum) Temperatures (June) (Maximum)	Minimum temperatures 13°C (winter), Maximum temperatures up to 48°C (summer)
6.	**Topography**	
	Toposheet Number	56P/14
	Morphology of the Area	exhibits gently undulating plain marked by relatively low lying areas
7	**Availability of baseline geosciences data**	
	Geological Map (1:50K/ 25K)	NGDR
	Geochemical Map	NGDR data
	Geophysical Map	NGDR
8.	**Justification for taking up Reconnaissance Survey / Regional Exploration**	Prospecting Licences (PLs) granted before the MMDR Amendment Act, 2015 included exploration stage reports (G4, G3, etc.). However, the 2021 amendments to the Act rendered these PL reports ineligible, requiring mineral blocks to go through auction. As a result, 19 such PL reports need re-evaluation under the **Minerals (Evidence of Mineral Contents) Rules, 2015**. To scrutinize them, the State Government formed a Scrutiny Committee (G.O.Ms.No.8, dated 12.03.2025). A meeting with GSI, MECL, and IBM on 04.06.2025 concluded that further field exploration was necessary to validate the with further exploration. 1. Proposed area is part of Prospecting license areas applicant of Sagar Cement ltd 2. The area hosts existing mining leases for limestone, in the vicinity of the Prospecting License (PL) blocks, the respective agencies have undertaken G-4 level exploration, confirming the presence of limestone and estimating a resource of 8 million tonnes over 12 hectares. 3. Following the Scrutiny Committee meeting on 04.06.2025 and subsequent discussions with the Director of Geology and Mining, Telangana, it was resolved to upgrade the block over substantial areas to facilitate auction.

PROPOSAL FOR PRELIMINARY EXPLORATION (G-3 STAGE) FOR LIMESTONE IN PEDAVEEDU EAST BLOCK, DISTRICT - SURYAPET, STATE – TELANGANA

1.0.0 INTRODUCTION:

1.1.1 Prospecting Licences (PL) were granted prior to MMDR Amendment Act,2015 and the PL holders submitted PL Reports mentioning different stages of exploration (G4, G3 etc). In 2021 amendments were issued to MMDR Act with a stipulation that all such PL reports stand ineligible and to conduct auction. Therefore, 19 PL Reports required to be evaluated to confirm mineral contents (G4, G3 etc stages of exploration) as per the stipulations under Minerals (Evidence of Mineral Contents) Rules, 2015. State Govt. constituted Scrutiny Committee vide G.O.Ms.No.8, Dt:12.03.2025 for scrutiny of PL Reports as per the Minerals (Evidence of Minerals) Content Rules, 2015. Dept. along with GSI, MECL & IBM discussed the status of PL Reports on 04.06.2025 wherein it was opined to revisit the areas for further exploration

1.1.2 In view of the above, MECL has prepared the exploration proposal involving G-3 level exploration Pedavvedu East Block.

1.2.0 LOCATION AND ACCESSIBILITY

1.2.1 The proposed Pedaveedu East block lie in Matampally mandal, Toposheet No 56P14, in Suryapet dist, Telangana.

1.2.2 All the villages in the area are well connected to each other and to the highway located at a distance of about 40 km away from National Highway No. 9 connecting Vijayawada-Hyderabad, The nearest Railway Station is Miryalaguda about 60 km NNW. The nearest airport is Vijaywada Airport at 135km from the block.

1.3.0 PHYSIOGRAPHY, DRAINAGE, CLIMATE AND VEGETATION:

1.3.1 Physiographical, the proposed block forms a part of plain area north of Krishna River. The highest elevation of the ground is around 200 m above MSL and ground slope is towards south.

1.3.2 The Suryapet district is mainly drained by Krishna River and its tributary Vemuleru River. A few nalas originate in the block and meet Krishna River in the south.

1.3.3 The area experiences tropical wet and dry climate. During dry spells, maximum temperature often exceeds 45° C in May and June. In winter the temperature comes down to 9-11° C in December and January. The average annual rainfall in the area is 821mm.

2.0.0 REGIONAL GEOLOGY

2.1.0 The proposed area is a part of Palnad Sub-Basin and is located in the northeastern part of the Cudappah Basin. The major portion of the basin isoccupied by Kurnool Group of rocks

of Neoproterozoic age. William King (1872) documented the earliest geological account of Planad basin. Ramalingaswamy, G. (1976-77) has mapped area in parts of Toposheet No.56P/10. Krupanidhi (1966-67), Nagaeswara Rao and Varaprasada Rao(1967-68), Chakradhar et al, (1980-83), RavindraBabu et al, (1989),Ramakrishnaiah et al, (2012-13), JagadishwarBabu. K and Tirumurugan. M. (2013) and Sugathan & RimpalKar (2013) have carried out investigation for limestone in parts of Palnad sub-basin.

2.1.1 The Cuddapah Basin extends from Nagari in the south to Amaravati in the north east over a length of about 440 km. with width ranging from 80 to 145 km. encompassing an area of about 44000 sq. km. Rocks belonging to Kumool Group are younger than rocks of Cuddapah Group and are well preserved in the Cuddapah Basin. Cuddapahs and associated younger Kumools occupy a unique position in Indian Stratigraphy because of economic interest and hence have been the subject of studies for more than seven decades. Kurnool Group of rocks are found confined to two small areas in Cuddapah viz., the area between Cuddapah and Kumool and the area west of Amaravati. The latter is also referred to as the Palnads.

2.1.2 The Detailed Stratigraphy after GSI is as per the table given below:

	SERIES	STAGE
CUDDAPAH SYSTEM	Kurnool Series	Nandyal shale Koilkuntla Limestone Paniam Quartzite Auk Shale Narji Limestone Banganapalle Quartzite
		Unconformity
	Kistna Series	Srisailam quartzite Kolamnala shale Irlakonda quartzite
		Unconformity
	Nallamalai Series	Cumbum Formation Bairenkonda Quartzite
		Unconformity
	Cheyair Series	Gandikota quartzite Pullampet shales (Tadpatri) Nagri/ Pulivendala quartzite
		Unconformity
	Papaghni Series	Vempalle limestone and shale Gulcheru quartzite
		Unconformity
Archean schist and gneisses.		

Table no 1
Regional Stratigraphy of the Cuddapah basin

3.1.0 REGIONAL STRUCTURE

3.1.1 The general strike of the formation is NNE-SSW dipping gently (20 to 50) towards ESE and the younging direction is from west to east. The variation in dip direction and amount

may be attributed to warps and minor folds. Open asymmetrical synform and antiform folds are preserved in the western part of the study area which are having trend $N70^0W–S70^0E$ (axial plane) and plunging towards SE. Minor folds are formed in calcite and quartz vein within the massive grey limestone, the axial plane is trending in E-W direction.

3.2.0 GEOLOGY OF THE BLOCK

3.3.0 The limestone in the area forms a part of Proterozoic Palnadu Basin equivalents to Narji Limestone formation of Kurnool Group. These carbonate rocks of Narji Limestone are sub divided in to several distinct Lithological units.

3.4.0 Stratigraphy of the proposed block is given below

Table No 2

Stratigraphy of the Suryapet cluster of blocks (After GSI)

Group / Super Group	Lithology
	Soil
Narji Limestone	Grey Limestone Green Limestone Purple/Flaggy limestone Shale
	Banaganapalle Quartzite
Unconformity	
Kistna Series	

3.5.0 The Grey Limestone is light to dark grey in color and Variegated Limestone is light greyish white to greenish grey in colour and thin bedded. In the course of drilling green and purple limestones have been encountered. The massive grey unit is devoid of any particular primary So (colour compositional) bedding. It is massive with a thickness of 20 to 50 m and breaks along sharp edged conchoidal fractures exhibiting a serrated profile.

4.0.0 MINERAL POTENTIALITY BASED ON GEOLOGY, GEOPHYSICS, GROUND GEOCHEMISTRY ETC.

4.0.1 The area hosts existing mining leases for limestone, in the vicinity of the Prospecting License (PL) blocks, the respective agencies have undertaken G-4 level exploration, confirming the presence of limestone and estimating a resource of 8 million tonnes over 12 hectares.

5.0.0 PREVIOUS WORK AND JUSTIFICATION

5.1.1 The block forms part of Palnad Sub-basin and is located in the north-eastern portion of the Cudappah Basin. The earliest geological account of Palnad Sub-basin was documented by William King (1872).

5.1.2 Mukherji and Syed Kazim(1947) of erstwhile Hyderabad Geological Survey carried out geological mapping of Palnad Basin covering parts of Nalgonda district.

5.1.3 Systematic geological mapping and mineral invstigation in this part of Palnad Sub-basin was carried out by Ziauddin and Sharma(1959-61) Ramalingaswamy, G. (1976-77) has mapped area in parts of Toposheet No. 56P/10. Krupanidhi (1966-67), Nagaeswara Rao and Varaprasada Rao (1967-68), Chakradhar et al, (1980-83), RavindraBabu et al, (1989), Ramakrishnaiah et al, (2012-13), JagadishwarBabu Babu. K and. Tirumurugan. M. (2013) and Sugathan & RimpalKar (2013) have carried out investigation for limestone in parts of Palnad sub-basin.

5.1.4 MECL FY 2017-2018. Has carried out G-3 level exploration in the vicinity of this area for exploration blocks namely Sultanpur, Saidulnama and Pasupalabodu where it was established the continuity of limestone and resources were established, out of these three blocks Saidulanama and Sultanpur block are auctioned in the year 2024. Thickness of limestone intercepted are thickness of 10.5 to 36.0m

5.1.5 Sagar cements have collected surface samples from outcrop and analysis of CaO ranges from 42 to 28%. M/s Sagar Cements Limited during prospecting, drilled BHs in cluster to developed G1 resource in 12 Ha area. 4 Bhs drilled in rest of PL area to check the continuity of Limestone. The details of the boreholes are as follows

Sl. No.	B.H.No.	Depth (In M)	LOI	SiO2	Fe2O3	Al2O3	Cao	Mgo	Litholog
1	PBH - 1	0.5 - 5	40.25	7.23	0.56	0.80	48.64	1.98	Dark Grey Limestone
2		5 - 10	40.45	6.69	0.51	0.91	49.31	1.66	Dark Grey Limestone
3		15 - 20	39.26	8.16	0.52	1.31	48.81	1.08	Green Limestone with Calcite
4	PBH - 2	5 -.10	10.03	7.50	0.58	0.86	48.83	1.73	Dark Grey Limestone
5		17 - 20	38.71	9.08	0.55	1.47	48.85	0.69	Green Limestone
6		1.0 - 2.0	36.98	13.83	0.37	1.06	46.70	0.57	Light Grey Limestone
7	PBH - 3	0.0 - 5	34.38	18.65	0.52	1.17	43.78	0.60	Light Grey Limestone
8		20 - 25	39.00	7.83	0.61	0.99	48.78	2.10	Dark Grey Limestone
9		25 - 30	38.18	10.00	0.79	1.66	47.21	1.40	Green Limestone
10	PBH - 4	0.0 - 1	35.89	16.57	0.31	0.94	45.09	0.58	Light Grey Limestone
11		10 - 15	40.08	7.65	0.58	0.87	48.58	1.73	Dark Grey Limestone
12		15 - 20	38.32	9.84	0.75	1.67	47.56	1.10	Green Limestone with Calcite
13	PBH - 5	0.0 - 1.0	22.75	41.57	7.38	11.03	12.88	2.12	Black Cotton Soil
14		1.0 - 5.0	33.75	20.78	0.40	1.25	41.97	0.64	Light Grey Limestone
15		10 - 15	37.80	12.35	0.37	1.01	47.16	0.81	Dark Grey Limestone
16		20 - 25	37.29	11.55	0.88	2.25	46.36	0.71	Green Limestone
17	PBH - 6	5.0 - 10	35.06	18.16	0.37	1.13	44.15	0.55	Light Grey Limestone
18		10 - 15	34.83	18.50	0.37	1.26	43.77	0.59	Grey Limestone mixed with clay
19		15 - 20	36.02	15.65	0.38	1.38	45.21	0.68	Grey Limestone with clay
20		25 - 29	36.34	12.81	1.05	2.48	45.08	1.20	Green limestone
21	PBH - 7	1.0 - 5.0	35.18	17.73	0.38	1.22	44.18	0.58	Light Grey Limestone
22		10 - 15	40.33	7.11	0.62	0.90	48.24	2.28	Dark Grey Limestone
23		20 - 23	36.58	12.16	1.11	2.38	45.71	0.81	Green Limestone
24	PBH - 8	0.0 - 3.0	34.62	19.08	0.38	1.18	43.26	0.75	Light Grey Limestone
25		20 - 25	36.75	12.05	1.03	2.40	45.70	0.97	Green Limestone
26	PBH - 9	5.0 - 10	35.58	16.63	0.39	1.16	45.05	0.59	Varigated Limestone
27		20 - 25	40.22	7.44	0.66	0.82	47.73	2.55	Dark Grey Limestone
28		25 - 30	38.99	8.66	0.62	1.48	48.31	1.09	Dark Grey Limestone
29		30 - 35	36.83	11.81	1.00	2.34	46.23	0.75	Green Limestone
30		37 - 39	32.54	17.83	2.53	4.30	40.15	0.98	Green Flaggy Limestone
31	PBH - 10	0.0 - 2	35.22	17.87	0.40	1.11	44.24	0.56	Light Grey Limestone
32		10 - 15	40.36	7.04	0.64	0.85	48.12	2.50	Dark Grey Limestone
33		15 - 20	40.03	7.18	0.59	1.01	48.37	1.96	Dark Grey Limestone
34		25 - 30	38.74	8.74	0.60	1.56	47.76	0.88	Green Limestone
35	PBH - 11	1.0 - 5.0	34.08	19.75	0.46	1.19	42.76	0.60	Light Grey Limestone
36		15 - 20	39.71	7.63	0.52	1.20	48.87	1.40	Dark Grey Limestone
37		20 - 25	39.08	8.77	0.49	1.33	49.21	0.62	Dark Grey Limestone
38		30 - 35	35.49	13.74	1.56	3.06	44.20	0.77	Green Limestone
39	PBH 12	0.5 - 2.0	33.48	21.53	0.42	1.13	42.12	0.64	Light Grey Limestone
40		5.0 - 10	39.89	7.81	0.49	0.83	49.31	1.07	Dark Grey Limestone
41		1 - 12 (Clay	37.77	11.98	1.17	1.54	44.23	2.36	Dark Grey Limestone with caly

6.0.0 BLOCK DESCRIPTION

6.1.0 The proposed three blocks falls in Survey of India Toposheet No 56P14 and covers an area of 4.17.sq,km in around villages of, Matampally, Peddaveedu, Gundlapally of Suryapet dist, Telangana. The block location is given in **PLATE-I.** The Co-ordinates of the corner points of the block area's are given in **Table No.- 3,**

Table No 3

Coordinates of the corner points of Pedaveedu East Block Boundary (4.17 Sq. Km), District: Suryapet, Telangana			
Corner Point	Datum: WGS 1984 Coordinate in D M S system		
	Longitudes	Latitude	Area
A	079° 51' 31.46" E	16° 44' 5.24" N	4.17 Sq. Km
B	079° 51' 20.96" E	16° 42' 59.68" N	
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7.0.0 SCOPE FOR PROPOSED EXPLORATION.

The Preliminary exploration (G-3 stage exploration) program will be comprised of Detailed Geological mapping (1:4,000 scale), systematic drilling with coreing boreholes, with associated survey, chemical analysis, physical analysis and geological report preparation.

7.1.0 PLANNED METHODOLOGY

7.1.1 The exploration program is proposed in accordance to the objective set for Preliminary exploration (G-3) for this block. The Exploration shall be carried out as per Minerals

(Evidence of Mineral Contents) Amendment Rules, 2021. Accordingly, the following scheme of exploration is formulated in order to achieve the objectives. The details of different activities to be carried out are presented in subsequent paragraphs.

7.2.0 GEOLOGICAL MAPPING

7.2.1 Detailed Geological mapping will be done in the entire 4.17.sq,km on 1:4000 scale. Rock types, their contact, structural features will be mapped. Surface manifestations of the mineralisation available along with their surface disposition will be marked on map. On basis of geological mapping, the borehole location will be fixed after review in TCC, NMET.

7.3.0 SURVEYING:

7.3.1 Topographical survey will be carried out on 1:4000 scale, along with DGPS survey for block boundary and borehole locations.

7.4.0 **CORE DRILLING:**

7.4.1 In accordance to Amended MEMC rule, the limestone shall be explored by drilling 800 m X 800 m grid. Hence 7 Nos of vertical Boreholes with 50 m depth of each borehole, have been proposed in the block. Hence, cumulative 350 m of total drilling will be carried out during the G3 stage exploration in this block. **The committee opined that the BH location will be finalized only after completion of geological mapping.**

7.5.0 Drill Core Logging:

7.5.1 The drill core will be logged for rock types, structural features, textures. Rock quality designation (RQD) will also be undertaken.

7.6.0 Drill Core Sampling:

7.6.1 During geological logging of drill core, various Limestone zone will be marked. The length of each samples will be kept 1.00 m. It may be assumed that 40 Nos of samples may be generated from each of the boreholes. Total 280 Nos of primary samples will be generated in Pedaveedu East block along with 28 Nos of External check samples.

7.7.0 CHEMICAL ANALYSIS

7.7.1 All the samples will be analyzed for CaO, MgO, Al2O3, SiO2, Fe2O3, Na2O, SO3, P2O5, K2O by radicals XRF and LOI will be carried out on all the primary and external check samples by XRF.

7.8.0 Bulk Density

7.8.1 Two numbers of samples shall be subjected to determination of bulk density which will be used for resource estimation.

7.9.0 PETROLOGICAL & MINERAGRAPHIC STUDIES:

7.9.1 During the course of Geological mapping and core logging, a total 2 nos. of samples will be collected from all the three blocks and shall be studied under microscope.

7.10.0 PROPOSED QUANTUM OF WORK

Block wise Details of the particular, Quantum and the targets are tabulated in **Table Table No-4**

Table No-4

Envisaged Quantum of proposed work in Pedaveedu East Block

Sl. No.	Item of Work	Unit	Target
1	**Geological Mapping** (on 1:4000 Scale)	Sq km	4.17
2	**Topographic Survey** (on 1:4000 Scale)	Sq km	4.17
3	**Drilling (coring)**		
	a) Drilling in 3 Nos of BH with 50 m depth each	m	350
	b) logging	m	350
4	**Laboratory Studies**		
	i) Primary Samples for CaO, MgO, Al2O3, SiO2, Fe2O3, Na2O, SO3, P2O5, K2O by XRF and LOI	Nos	280
	ii) External Check Samples for CaO, MgO, Al2O3, SiO2, Fe2O3, Na2O, SO3, P2O5, K2O by XRF and LOI	Nos	28
5	**Bulk Density**	Nos	2
6	**Petrological Samples (Borehole Core Samples)**	Nos	2
7	**Report Preparation (5 Hard copies with a soft copy)**	Nos.	1

9.0.0 BREAK-UP OF EXPENDITURE

9.1.0 Tentative Cost has been estimated based on Schedule of Charges (SoC) of projects funded by National Mineral Exploration Trust (NMET) w.e.f. 01/04/2020. The total estimated cost is **Rs. 88.46 Lakhs for Pedaveedu East Block.** The summary of cost estimates for Preliminary Exploration (G-3 Level) is given in **Table No.-5. D**etails of cost estimates is given in **Annexures.** Tentative Time schedule/action plan for proposed G3 exploration is 7 Months

Table No-5

Summary of Cost Estimates for G3 Stage exploration in Pedaveedu East Block

SL. NO.	ITEM	ESTIMATED COST (Rs.)
1	Drilling	3,255,056
2	Geology & Survey	2,250,556
3	Laboratory	1,314,410
	Sub Total (1 to 4)	**6,820,022**
4	Exploration Report	341,001
5	Proposal Prepration	136,400
6	Peer Review Charges	30,000
	Grand Total	**7,327,424**
	GST 18%	1,318,936
	Total:	**8,646,360**
	Say Rs. in Lakhs	**86.46**

List of Plates

1. Plate-I: Location Map of Limestone blocks
2. Plate-II: Geological Map of proposed limestone block in Suryapet dist, Telangana.
3. Plate – III: Borehole Plan proposed limestone block in Suryapet dist, Telangana.