

**GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY**

From

Sri P.Venkateswara Reddy, M.Sc.,
Deputy Director of Mines & Geology(FAC),
Ananthapuramu

To

Rama Minerals,
Prop: Smt. B. Ramadevi,
Muthukota (V), Peddapappur (M),
Anantapuramu District.

Lr.No:692/MP-TDP/2022, Dt:20-05-2022

Sir,

Sub:- Mines and Quarries – Mining Plan for grant of Quarry lease application for Dolomite & Steatite over an extent of 2.03 Hects in Compartment No. 594 of Mutchukota R.F. Gooty Range of Julakalva (V), Singanamala (M), Anantapuram District in favour of Rama Minerals, Prop: Smt. B. Ramadevi prepared by Sri M. Rama Subba Reddy, RQP – Mining Plan - Approved – Regarding.

- Ref:-
- 1) G.O.Ms.No: 56, Ind. & Comm. (M.II) Dept., dated: 30.04.2016.
 - 2) Prods.No: 28594/P.RQP/2001, dt: 13.05.2016 of the Director of Mines and Geology, Hyderabad.
 - 3) Circular Memo No. 25019/P-Misc/2015 dated 08.09.2020 of the Director of Mines and Geology, Ibrahimpatnam
 - 4) Cir.Memo No. 4702/P/2021, dt:04.04.2022 of the Director of Mines and Geology, Ibrahimpatnam.
 - 5) Cir. Memo No. 3861432/P/2020, dated 16.07.2021 of the Director of Mines and Geology, Ibrahimpatnam.
 - 6) Letter Dated:19.05.2022, along with draft Mining Plan from the applicant.
 - 7) This office Lr. No. 692/MP-TDP/2022,dt:07.05.2022 addressed to the R.Q.P. / applicant.
 - 8) Letter dated: 19.05.2022, along with five sets of fair copies of Mining Plans from the applicant.

* * * * *

In exercise of the powers conferred as per amended Rule 7 A (I), (II), (III) and (IV) of APMMC Rules, 1966 read with Proceedings No: 28594/P.RQP/2001, dt: 13.05.2016, 25019/P-Misc/2015 dated 08.09.2020 and Cir.Memo No. 4702/P/2021, dt:04.04.2022 and Cir. Memo No. 3861432/P/2020, dated 16.07.2021 of the Director of Mines and Geology, GoAP, Hyderabad and G.O.Ms.No: 56, Ind. & Comm. (M.II) Dept., dated: 30.04.2016, *I hereby approve the Mining Plan (including Progressive Mine Closure Plan) in respect of Quarry lease application for Dolomite & Steatite over an extent of 2.03 Hects in Compartment No. 594 of Mutchukota R.F. Gooty Range of Julakalva (V), Singanamala (M), Anantapuram District in favour of Rama Minerals, Prop: Smt. B. Ramadevi prepared by Sri M. Rama Subba Reddy, RQP.*

This approval is subject to the following conditions.

1. This Mining Plan (including Progressive Mine Closure Plan) is approved without prejudice to any other laws applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority.
2. It is clarified that this approval of the Mining Plan (including Progressive Mine Closure Plan) does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 and any other laws including the Forest Conservation Act, 1980 and APMMC Rules, 1966.

Contd...2

3. The approval authority does not owe responsibility with regard to recovery factor of Dolomite & Steatite and assessment of reserves, any erroneous certification made by the R.Q.P. if any, since the evaluation is done on random basis.
4. The Mining Plan (including Progressive Mine Closure Plan) is approved subject to strictly adhering to the relevant Regulations of MMR, 1961 and obtaining prior permission from the Director General Mines Safety whenever and wherever it is required.
5. The applicant/ lessee shall safeguard the structures, public buildings, roads, railway line, electric line and water bodies exists if any as per regulations 109 & 127 of MMR, 1961.
6. The approval of the Mining Plan (including Progressive Mine Closure Plan) shall be subjected to vacation of prohibitory orders or notices or determination orders etc., if any issued by the competent authority.
7. If anything is found to be concealed as required by the Mines Act in the contents of the approved Mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.
8. This Mining Plan is approved as per the quarry lease LOI sketch of the subject area. Any deviation found later, approval authority does not owe responsibility.
9. The approval authority does not owe responsibility with regard to erroneous certification made by the R.Q.P if any and approval is tentative subject to modification of new findings at a later date as per the provisions of Rules inforce, since the evaluation is done on random basis.
10. The Asst. Director of Mines and Geology, Tadipatri shall issue the dispatch permits duly conducting stock verification, working condition of the mine invariably and get the analysis of the samples to know the grade of the steatite duly following the instructions issued by the Director of Mines and Geology, Ibrahimpatnam vide Memo No. 25019/P-Misc/2015, dt:20.07.2017.

Yours faithfully,

Deputy Director of Mines & Geology (FAC)
Ananthapuramu

Encl: (2 copies of A.M.P.)

Copy submitted to the Director of Mines & Geology, Vijayawada along with A.M.P. for favour of information.

Copy to Sri M.Rama Subba Reddy, C/o Pompanna Gouda, Kappagal Road, Sir M.V.Nagar, 6th Cross, Right Side, Bellary - for information.

Copy submitted to the Director of Mines Safety, Bellary for favour of information.

Copy to the Asst. Director of Mines & Geology, **Tadipatri** along with A.M.P for information with a direction to obtain valid Financial Assurance from the applicant before the execution.

MINING PLAN

INCLUDING

PROGRESSIVE MINE CLOSURE PLAN

UNDER RULE 7 (A) OF APMMCR, 1966 SUBMITTING IN ACCORDANCE WITH
G.O.MS NO 56, INDUSTRIES & COMMERCE (M.II), DATED 30-04-2016

OF

APPROVED

RAMA MINERALS

'B' CATEGORY SEMI-MECHANIZED UNDER GROUND METHOD OF
MINING IN FOREST LAND IN COMPARTMENT NO 594 OF
MUTCHUKOTA R.F., GOOTY RANGE, ANANTHAPURAMU DIVISION
OF JULAKALVA VILLAGE, SINGANAMALA MANDAL, ANANTHAPURAMU
DISTRICT, ANDHRA PRADESH STATE

EXTENT 2.03 Hect

FRESH APPLIED AREA FOR GRANT (PROPOSALS FOR 5 YEARS)

OF

M/S RAMA MINERALS

Prop : **SMT.B.RAMADEVI,**
1/35, MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 515455

MAY – 2022

By

SRI. M RAMA SUBBA REDDY

RQP/DMG/AP/06/2022

BALLARI, KARNATAKA

Ph : 9845825389, 9483384427

E MAIL : bpgouda00@gmail.com, smartssall@gmail.com

M/s RAMA MINERALS

Prop : **SMT.B.RAMADEVI,**

1/35, MUTCHUKOTA VILLAGE
PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 515455

Mobile No : 9908620996



CERTIFICATE

We hereby Certify that the Mining Plan including Progressive Mine Closure Plan is prepared under rule 7 (A) APMMCR 1966 and submitting in accordance with G.O.Ms No 56, Industries & Commerce (M.II), dated 30-04-2016 of QL Area applied By M/s Rama Minerals Prop Smt. Ramadevi for Dolomite and Steatite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect has been prepared full consideration with us and we have understood its contents. We agree to implement the same in accordance with the law.

For M/s Rama Minerals,

B. Ramadevi

B. Ramadevi,
Proprietor.

M/s RAMA MINERALS
Prop : **SMT.B.RAMADEVI**,
1/35, MUTCHUKOTA VILLAGE
PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 515455
Mobile No : 9908620996



CERTIFICATE

The provisions of Mines Act, Rules and Regulation made there under have been observed in the Mining Plan including Progressive Mine Closure Plan have been prepared for QL Area applied By M/s Rama Minerals Prop Smt. Ramadevi for Dolomite and Steatite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect and where specific permissions are required. The applicant will approach the D.G.M.S. Further standards prescribed by DGMS in respect of miner's health will be strictly implemented.

For M/s Rama Minerals,

B. Ramadevi

B. Ramadevi,
Proprietor.

M/s RAMA MINERALS
Prop : **SMT.B.RAMADEVI**
1/35, MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 915455
Mobile No : 9908620996



CERTIFICATE

We here by certify that the Progressive Mine Closure Plan under rule 7 (A) APMMR 1966 and submitting in accordance with G.O.Ms No 56, Industries & Commerce (M.II), dated 30-04-2016 of the Mining Plan including Progressive Mine Closure Plan have been prepared for QL Area applied By M/s Rama Minerals Prop Smt. Ramadevi for Dolomite and Steatite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect for which the above mentioned actions have been taken in the Progressive Mine closure Plan. We have understood its content and agreed to implement proposal made in Progressive Mine Closure Plan and all the statutory Rules, Regulations, orders made by the central or State Government, Statutory Organizations etc. have been taken into considerations and wherever any specific permission is required we shall approach the concerned authorities, all the measures proposed in the Mining Plan including Progressive Mine Closure Plan will be implemented in a time bound manner as proposed. The undertaking is also here with enclosed for the above purposes.

For M/s Rama Minerals,

B. Ramadevi
B. Ramadevi,
Proprietor.

M.RAMA SUBBA REDDY
Geologist



CERTIFICATE

This is to certify that all the provisions of Andhra Pradesh Minor Mineral Rules 1966 and submitting in accordance with G.O.Ms No 56, Industries & Commerce (M.II), dated 30-04-2016 have been observed in the Mining Plan including Progressive Mine Closure Plan have been prepared for QL Area applied By M/s Rama Minerals Prop Smt. Ramadevi for Dolomite and Steatite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect and whenever specific permissions are required the lessee will approach the authorities of Deputy Director of Mines & Geology, Ananthapuramu for granting the permissions.



M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

M.RAMA SUBBA REDDY
Geologist



This is to certify that all the provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining Plan including Progressive Mine Closure Plan have been prepared for QL Area applied By M/s Rama Minerals Prop Smt. Ramadevi for Dolomite and Steatite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect and whenever specific permissions are required, the lessee will approach the Director General of Mines Safety, Dhanbad.

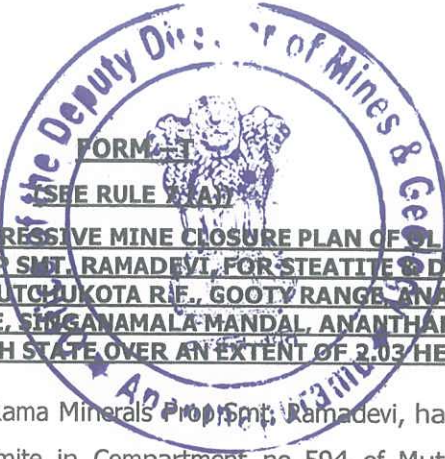
The information furnished in this Mining Plan including Progressive Mine Closure Plan is correct and true to the best of our knowledge.


M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

CHAPTER NO		PAGE NO
1.0	INTRODUCTION	1
I	GENERAL	2
II	LOCATION AND ACCESSIBILITY	3
III	DETAILS OF APPROVED MINING PLAN/SCHEME OF MINING (IF ANY)	5
	PART - A	6
1	GENERAL DETAILS OF THE APPLIED AREA /MINING LEASE	6
2	GEOLOGY AND EXPLORATION	6
3	MINING	17
	A. OPEN CAST MINING	17
	B. UNDER GROUND MINING	23
4	MINE DRAINAGE	26
5	STOCKING OF MINERAL REJECT/SUB GRADE MATERAIL & DISPOSAL OF WASTE	27
6	USE OF MINERAL AND MINERAL REJECT	27
7	PROCESSING OF ROM AND MINERAL REJECT	28
8	OTHERS	28
	PART-B	29
	PROGRESSIVE MINE CLOSURE PLAN	29
1	ENVIRONMENTAL BASE LINE INFORMATION	29
2	IMPACT ASSESSMENT	29
3	PROGRESSIVE RECLAMATION PLAN	31
4	MINED-OUT LAND	31
5	TOP SOIL MANAGEMENT	31
6	TAILING DAM MANAGEMENT	31
7	DIASTER MANAGEMENT AND RISK ASSESSMENT	32
8	CARE AND MAINYANANCE DURING TEMPORARY DISCONTINUANCE	34
9	FINANCIAL ASSURANCE	35
10	INFORAMTION INDICAING BREAK UP OF AREAS IN THE MINING LEASE FOR CALCULATION OF FINANCIAL ASSURANCE SHALL BE IN THE FORMAT GIVEN BELOW	36

ANNEXURES	
I	QL APPLICATION
II	INSPECTION REPORT ADMG, TADIPATRI
III	PROPRIETOR SHIP FIRM GST REGISTRATION COPY
IV	RQP CERTIFICATE
V	ANALYSIS REPORT
VI	A WEDGE CUT PATTERN DESIGN
VII	MINE PHOTOGRAPHS

LIST OF PLATES		
PLATE NO.		SCALE
1	LOCATION CUM KEY PLAN	1:50,000 R.F.
2	DGPS APPIED LEASE SKETCH	1CM = 20 m
3	SURFACE & GEOLOGICAL PLAN	1:1000 R.F.
4	GEOLOGICAL CROSS SECTIONS	1:1000 R.F.
5	PROPOSED YEAR WISE PRODUCTION & DEVELOPMENT PLAN FOR 5 YEARS	1:1000 R.F.
6	SCHEME OF VENTILATION	1:1000 R.F.
7	CONCEPTUAL PLAN	1:1000 R.F.
8	PROGRESSIVE MINE CLOSURE PLAN	1:1000 R.F.
9	ENVIRONMENT PLAN	1:5000 R.F.



**MINING PLAN INCLUDING PROGRESSIVE MINE CLOSURE PLAN OF QL AREA APPLIED BY
M/S RAMA MINERALS PROP SMT. RAMADEVI, FOR STEATITE & DOLOMITE IN
COMPARTMENT NO 594 OF MUTCHUKOTA R.F., GOOTY RANGE, ANANTHAPURAMU
DIVISION OF JULAKALVA VILLAGE, SINGANAMALA-MANDAL, ANANTHAPURAMU DISTRICT,
ANDHRA PRADESH STATE OVER AN EXTENT OF 2.03 HECT**

1.0 INTRODUCTION : M/s Rama Minerals Prop Smt. Ramadevi, has filed an application for QL for Steatite & Dolomite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.00 Hect to the Assistant Director of Mines & Geology, Tadipatri on 09-11-2017. Application copy enclosed vide **Annexure-I**.

The Assistant Director of Mines & Geology, Tadipatri inspected subject area on 15-11-2017 presence of the applicant and submitted their recommendation report of subject area to Director of Mines & Geology Ibrahimpatnam, for grant of Quarry lease for Steatite & Dolomite in Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.00 Hect in favour M/s Rama Minerals Prop Smt. Ramadevi. As per the GO Ms NO 107 Industries and Commerce Department dated 30-07-2016 the Technical observation of the applied area for the period of 20 years may be submitted to the Director of Mines & Geology subject to the satisfaction of APMMC Rule 1966, Forest Conservation Act 1980 and other terms and conditions of the Government issued instruction from time to time Inspection report is enclosed vide **Annexure-II**. Initial applicant as applied for 2.00 Hect after Surveyed the area by DGPS from Forest officials and ADMG officials area comes to 2.03 Hect so Forest and ADMG recommended for 2.03 Hect. report is enclosed vide **Annexure-II A**

According We are here with submitting the Mining plan Under Rule 7 (A) of APMMC 1966 As per G.O. M.S. No. 56, Industries & Commerce (Mines-II) 30th April 2016. Through the Circular Memo No 3861432/P/2020 dated 16/07/2021, issued by Government of Andhra Pradesh Department of Mines & Geology Ibrahimpatnam, Instructions has already been issued to all the ADM&G and DDM&Gs to submit the proposal on applications with regard to Forest area along with AMP as per procedure intimated by the Pri.Chief Conservator of Forest, Guntur,

A detailed Mining Plan is submitted on the basis of the Circular Memo No 3861432/P/2020 dated 16/07/2021, issued by Government of Andhra Pradesh Department of Mines & Geology Ibrahimpatnam,

**The Mining Plan is Approved
Subject to the conditions /
Stipulations Indicated in The
Mining Plan Approval Letter
No. 592/MP-TD1/2021 Dated. 20/05/2022**

APPROVED

**P. Venkateswara Reddy
Deputy Director of Mines and Geology (FAC)
Ananthapuramu**

In this connection it is to inform that, as per the existing provisions laid down under APMMC Rules 1966 the AMP shall be allowed only after the issue of Notice (LOI) to the applicant, But as per the present instructions received from the PCCF vide reference 5th cited, in the cases, where the M.C. Applications fall in forest area, the proposal shall submit along with AMP duly following the instructions issued in the reference 3rd & 4th cited.

Therefore the ADM&G and DDM&G in the state are directed while processing mineral concession applications falling in the forest area, proposals shall submit to the DM&G along with the AMP.

The DDM&G in the state are directed to consider the AMP for approval of the forest area applications in advance without issuing of Notice to the applicants requesting to submit AMP, EC & CFE.

However, prerequisite the Approved Mining Plan shall reflect the restrictions to be adopted by the applicant while conducting quarry operations due to the existence of any structures, railway line, roads, water bodies such as river, lake etc., and the stipulated distances as per the various regulations prescribed under Metalliferous Mines Regulations, 1961. The Mining Plan is prepared as per guide lines issued in Form-T in G.O. M.S. No. 56, Industries & Commerce (Mines-II) 30th April 2016 Under Rule 7 (A) (1) of APMMC Rules, 1966 and Progressive Mine Closure plan under Rule 7 A (3) of APMMC Rules, 1966 for the five years period and submitted to the Deputy Director of Mines & Geology, Ananthapuramu for approval.

I. GENERAL :

1. NAME & ADDRESS OF THE APPLICANT :

PERMANENT ADDRESS / ADDRESS FOR CORRESPONDENCE

M/s RAMA MINERALS
Prop : **SMT.B.RAMADEVI,**
1/35, MUTCHUKOTA VILLAGE, PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 515455
Mobile No : 9908620996
E Mail - ramaminerals30@gmail.com

2. STATUS OF APPLICANT / LESSEE :

Individual	:	Proprietor ship firm
Private Company	:	-
Firm	:	-

The lessee is individual having 5 years experience in mining. Proprietor ship firm GST registration copy is enclosed vide **Annexure – III.**

3. MINERAL (S) WHICH ARE INCLUDED IN THE SUBJECT AREA :

Dolomite & Steatite.

4. **NAME, & DETAILS OF PERSON EMPLOYED FOR PREPARING MINING PLAN :**

Name	:	SRI. M. RAMA SUBBA REDDY
Address	:	C/o. B. POMPA GOUDA Kappagal Road, Sir M.V.Nagar, 6th Cross, Right Side, Bellary District, KARNATAKA, INDIA
Telephone	:	09845825389, 09483384427
E. Mail	:	bpgouda00@gmail.com
Reg. No	:	RQP/DMG/AP/06/2022
Date of Grant/Renewal	:	09-05-2022 TO 08-05-2027

RQP Certificate is enclosed vide **Annexure – IV.**

II. **LOCATION AND ACCESSIBILITY :**

1. **LEASE DETAILS (EXISTING MINE) :**

State	:	Andhra Pradesh
District	:	Ananthapuramu
Mandal	:	Sinaganamala
Village	:	Julakalva
Sy. No/Compartment No	:	594
Forest	:	Mutchukota R.F., Gooty Range, Ananthapuramu Division
Extent of Lease Area	:	2.03 Hect
Owner ship	:	Mutchukota R.F. (Forest Area)
Topo sheet No	:	57 F/13
Pin code	:	515425
Nearest Village	:	Julakalva 3.25 Km
Nearest Highway	:	544 D (Kadapa to Ananthapuramu) 2.5 Km
Nearest Town	:	Ananthapuramu 35 KM

DGPS READINGS OF QL APPLIED AREA				Map Datum : WGS 84	
S No	NAME	EASTING	NORTHING	LATITUDE	LONGITUDE
1	M-1	804501.937507	1642650.728283	14.84085442	77.82929074
2	M-2	804544.478068	1642656.462912	14.84090134	77.82968634
3	M-3	804594.340340	1642661.921125	14.84094493	77.83014987
4	M-4	804730.972981	1642640.162331	14.84073282	77.83141573
5	M-5	804755.416395	1642637.114197	14.84070250	77.83164229
6	M-6	804782.933785	1642753.780093	14.84175287	77.83191147
7	M-7	804692.759994	1642753.727872	14.84176271	77.83107434
8	M-8	804636.762183	1642687.735530	14.84117574	77.83055723
9	M-9	804589.789359	1642676.229969	14.84107466	77.83010931
10	M-10	804513.734020	1642665.075785	14.84098263	77.82940194
11	M-11	804503.485244	1642660.587719	14.84094328	77.82930627
12	SF-1	804492.941113	1642641.924229	14.84077595	77.82920619
13	SF-2	804545.305735	1642649.014765	14.84083399	77.82969315
14	SF-3	804594.347491	1642654.391831	14.84087694	77.83014905
15	SF-4	804729.898720	1642632.709680	14.84066564	77.83140488
16	SF-5	804761.159651	1642628.814964	14.84062689	77.83169463
17	SF-6	804792.408412	1642761.288065	14.84181958	77.83200031
18	SF-7	804689.244877	1642761.216997	14.84183074	77.83104259
19	SF-8	804633.846185	1642694.661310	14.84123607	77.83052047
20	SF-9	804588.715935	1642683.642799	14.84114173	77.83010021
21	SF-10	804511.640400	1642672.331741	14.84104840	77.82938336
22	SF-11	804496.690235	1642665.801577	14.84099114	77.82924380

2. **ATTACH A GENERAL LOCATION MAP SHOWING AREA AND ACCESS ROUTES :**

Location cum Key Plan is enclosed vide Plate No 1.

Lease area DGPS map is enclosed vide Plate No 2.

3. **INFRASTRUCTURE :**

ROAD AND RAIL WAY NETWORK : The OL area has good accessibility from Tadipatri, which is situated on the district road between Ananthapuramu-Tadipatri. From Tadipatri to the lease area is about 22km and 35km from Ananthapuramu. The nearest Railway station Tadipatri is at a distance of 22km from the lease area. Majority of workers and staff will come from Mutchukota village. Singanamala is the Mandal head quarter which is about 15 km from the lease area and having facilities like high school, health center, postal, telegraph & Bank facilities. For college education students have to go to Ananthapuramu or Tadipatri. The regular APSRTC bus services from Tadipatri to Ananthapuramu via Mutchukota village. Power is available at Mutchukota village and there is no water sources excepting bore wells outside the lease area. Through water tankers, the supply of water will be made to mine..

The following are the within 10 Kms. of the quarry:

Nearest village	Julakalva 3.25 Km
Road	The applied area is situated at a aerial distance of 3.50 Km towards NW of Mutchukota Village, and it can be approached by traveling from Tadipatri to Mutchukota Forest on the Tadipatri -Ananthapuramu BT road upto a distance of about 18 km from there by taking right diversion towards North direction on cart track at a distance of 3.6 Km can be leads to the applied area.
Railway Line	BG line connecting Guntakal- Renigunta 22 Kms (East)
Railway station	Tadipatri railway Station 22 Km due East Direction from the mine lease area
Port facility	Nil [within 10 km]
Airport	Kempegowda International airport is 230 km due West from the mine lease area
Defence Installations	Nil [within 10 km]
Reserved forest	Area falls in Mutchukota RF

Water body	Seasonal Nallan-0.02 Km [NW] Salakam Cheruvu-2.20 Km [NW] Rachapalle tank-2.50 Km [NW] Kuthal Bru - 4.00 Km [NW] Marvenka - 5.00 (SW) Mid Pennar South canal - 5.80 (SE) Putluru Cheruvu - 14.00 (N) Pennar River-6.10 Km [NW]
National Park/ Wild life sanctuary / Biosphere reserve / Tiger Reserve / Elephant Corridor	Nil [within 10 km]
Interstate border	Andhra Pradesh-Karnataka boarder-78 kms[North]
National Highway	YSR Kadapa-Banglore-2.5 Km [South]
District Head Quarters	Ananthapuramu-32 km[West]
Nearest Town	Tadipatri-22 km [East]

III. DETAILS OF APPROVED MINING PLAN/SCHEME OF MINING (IF ANY) :
DATE AND REFERENCE OF EARLIER APPROVED MINING PLAN /SCHEME OF MINING :

It is fresh applied area for Steatite & Dolomite.

(b) **DETAILED DESCRIPTION OF GEOLOGY OF LEASE AREA.**

LOCAL GEOLOGY : Generally, the area is part of Kadapa basin and is a sedimentary formation. The rock types generally noticed in the area are Dolomite & Quartzite's in succession. The QL area is completely covered with Dolomitic limestone & Dolomite with Steatite mineralization. It is believed that Steatite mineralization is occurred due to metamorphic activity in dolomitic limestone's. In general, the chemical composition of dolomitic limestone is double carbonates of Calcium & Magnesium Silica & Alumina. When dolomitic limestone subjected to metamorphism and reacted at suitable conditions with water, the dolomitic limestone altered into hydrous magnesium silicate which is precisely Steatite, Calcium & magnesium Carbonate which is Dolomite & Aluminum silicates which are Steatite. Steatite is off light green in color generally & somewhere light white color patches are also seen. Detailed study has been conducted in the Old pits and noticed the following rock types.

Surface soil
Dolomite
Dolomitic lime stone
Steatite

The existence of Dolomitic lime stone, Dolomite & the steatite vein is observed. In the lease area the Dolomite & steatite is occurring almost as alternative bands and surface area is most of dolomitic limestone & Dolomite patches with steatite bands. The rock formations are uniform bedded deposit and there is no structural disturbance. The total strike length of the steatite mineralized zone is about 149 m length in North East -South West direction with an average thickness of 10m. The dip of Steatite is ranging from 12° to 16°. Surrounding underground workings revealing that Steatite having an average thickness of 10m and proved 100m incline length in the QL applied area. Around the QL area, there are mining lease areas with underground method of working & steatite in these mines is proved with 200m inclined length. In the steatite mineralized area, the Dolomite with alternate beds of steatite is exposed. Steatite minerals typically form over long periods of time as a result of the gradual chemical weathering of rocks, usually silicate-bearing, by low concentrations of carbonic acid & other diluted solvents. These solvents, usually acidic, migrate through the weathering rock after leaching through upper weathered layers.

The Director of Mines and Geology, Ibrahimpatnam vide memo no.25019/P-Misc /2015 Dated 20.07.2017 instructed that lease holders shall get analyzed the associated minerals before issuing dispatch permits. Steatite (Insecticide (Filler) grade (Low grade) and Steatite (Otherthan Insecticide (Filler) grade) (High grade) mineral along with Dolomite minerals are occurring in the subject lease.

The lease holder shall be analyzed the sample at the Chemical lab O/o Deputy Director of Mines & Geology, Kurnool and analysis report will submit to the ADM&G concerned as and when required dispatch permit for Steatite (Insecticide (Filler) grade (Low grade) minerals.

(c) **DETAILS OF PROSPECTING LICENSE HOLDER**

The applicant himself will do the prospecting work.

M/s RAMA MINERALS, Prop : SMT.B.RAMADEVI,

1/35, MUTCHUKOTA VILLAGE, PEDDAPAPPUR MANDAL,

ANANTHAPURAMU DISTRICT - 515455

Mobile No : 9908620996

No mining is carried out in this applied area for grant of quarry lease. As the 3 old pits and adjacent working mine in the same strike direction Steatite & Dolomite is well exposed from 6m to 10 m from the surface. The Dolomite, Steatite and filler grade steatite beds are available after 6m depth below the ground. Already average 10m thick beds of Dolomite, Steatite and filler grade steatite clearly visible. The measurements of the old pits are as follows :

Pit No	Length in M	Width in M	Depth in M
1	18	16	6
2	5	4	4
3	4	3	4

(e) **SURFACE PLAN AREA ON 1:1000 OR 1:2000 SCALE :**

The updated Surface plan has been prepared with scale of 1:1000 R.F. is enclosed vide Plate No. 3 showing all the mine workings and other details, etc.

(f) **GEOLOGICAL PLAN PREPARED ON SCALE OF 1:1000 OR 1:2000 :**

The updated Geological Plan has been prepared with scale of 1:1000 R.F. is enclosed vide Plate No 3 showing all the mine workings and other details, etc.

(g) **GEOLOGICAL SECTIONS ON NATURAL SCALE AT SUITABLE INTERVAL ACROSS THE LEASE AREA OR APPLIED AREA :**

2 Geological cross section have been prepared with scale of 1:1000 R.F. for an interval of 60 m to 80 m across the strike for mineral zone from boundary to boundary and is enclosed vide Plate No. 4.

(h) **BROADLY INDICATE THE FUTURE PROGRAMME OF EXPLORATION WITH DUE JUSTIFICATION TAKING INTO CONSIDERATION THE FUTURE TENTATIVE EXCAVATION PROGRAMME PLANNED IN NEXT FIVE YEARS :**

In the entire applied covered by 6m depth soil with dolomitic limestone and weathered tuff after 6m depth weathered Steatite & Dolomite is exposed as seen from the old pits. Towards Northern and Southern side few mines are working in the same strike direction.

It is clearly showing the pit cutting section Steatite & Dolomite bed is encountered in the working pits 4 bore holes were proposed for entire applied area for next 5 years exploration programme at least 60 m depth each bore hole. The locations of the bore holes were shown in Plate No. 3 & 4.

Year	No of bore holes (Core/RC/DTH)	Grid interval in m	Total meter age	No. of pits dimensions & volume	No. of Trenches, dimensions & volume
I	Nil	Nil	Nil	Nil	Nil
II	PBH 1 to 6	100x100	280	Nil	Nil
III	Nil	Nil	Nil	Nil	Nil
IV	Nil	Nil	Nil	Nil	Nil
V	Nil	Nil	Nil	Nil	Nil
Total	6	100x100	280	Nil	Nil

As per the guidelines of UNFC entire area need to be explored, however the area is covered by exploration by way of pitting and bore holes (DTH).

(i) **RESERVES & RESOURCES AS PER UNFC DETAILED CALCULATION OF RESERVES SHALL BE STATED :**

Geological cross sections are drawn across a strike length of 149m. The sections are made use of in the calculation of geological reserves. The reserves are computed as based on the data collected from old pits and adjacent mines bore holes and workings, the geological cross section is prepared across the strike direction from Southern direction to Northern direction, where the mineralization of the Steatite is proved. Since mineral Dolomite & Steatite (Other than Insecticide (Filler) grade) + Steatite (Insecticide (Filler) grade) occurrence is found in old pits from West to East the alternative band of white Dolomite and Steatite passing with width of 10m only. So the reserves of Dolomite and Steatite (Other than Insecticide (Filler) grade) + Steatite (Insecticide (Filler) grade) which is available in 10 m band, are calculated by cross sectional method, under proved (UNFC-111) category. The over burden consisting of soil and tuff is overlaying the mineral zone and the O.B. thickness increases towards East (down dip side) and it is proposed to carry out the mining by underground method. Because of underground mining, the reserves are calculated only for mineral zone of 10m band under proved category. Since the Dolomite & Steatite (Other than Insecticide (Filler) grade) + Steatite (Insecticide (Filler) grade) are occurring as alternate layers in 15m band, the recovery factor of salable mineral is 0.45 & 0.45 respectively. The tonnage factor of minerals is considered as 2.5. The reserves are estimated by multiplying the cross sectional area with the influence distance of the section, tonnage factor & recovery factor of the minerals.

The estimation reserves are given below :

GEOLOGICAL RESERVES RESOURCE DOLomite & STEATITE

Category	UNFC code	X-sec	X-sec Influence in M	X- Sec Area in Sqm	Volume in Cum	Reserves		Mineral Rejection @ Col. No.6 * 2.0 t/cum * 10 %
						Dolomite @ Col. No. 6*2.5 * 45 %	Steatite @ Col. No. 6*2.5 * 45 %	
1	2	3	4	5	6	7	8	10
Proved	111	AA'	60	906	54060	61155	61155	10872
Proved	111	BB'	80	1105	88400	99450	99450	17680
Total					142760	160605	160605	28552

PROVED RESERVES (UNFC CODE -111, G1 CATEGORY)

The Geological reserves are calculated based on the following parameters :

- Two cross sections are prepared to depict the behavior and configuration of the Dolomite and Steatite body. The mineralization as depicted in the section form the basis for the estimation of the reserves. Based on surface exposures, old pits and adjacent working mines pits and bore holes profiles are considered for estimation of reserves.

The adjacent existing mines are gone nearly 150m depth present operations are running, these pits lithology showing the top 6 m depth weathered waste rock after 6 m depth alternative beds of Dolomite & Steatite beds are observed.

- The Dolomite and Steatite occurs as massive body with in Vempally Dolomite and Steatite formation of Kadapa super group.
- The lowest of occurrence of mineral in sections are considered as the limits of Reserves calculation.
- The quantity of Dolomite and Steatite is estimated separately which from waste rock from the mining.
- That the fracture extends vertically below surface upto the depths for which the reserves are projected.
- From 341m RL to 305m RL considered for proved category (UNFC-111) of the entire mineral. The top 6 m to 40 m considered for calcarious tuff and weathered Dolomite and Steatite.
- Assumed tonnage factor of 2.5 tonnes/cum is for estimation of Dolomite and Steatite reserves and tonnage factor 2.0 tonnes/cum is for estimation of waste.
- Recovery factor of 90% is taken as it is reasonable to considered a waste generation of 10% in the entire mineral.



PROVED RESERVES :

As already stated, the alternative bands of Dolomite and Steatite body is seen to extend dip side towards East a depth of 6m from the ground surface i.e., 341m RL the reserves of Dolomite and Steatite blocked between 341m RL and 305m levels have been considered as proved. Top 6m to 40m overburden occupied i.e., 395m to 341m RLs.

GEOLOGICAL RESERVES AND GRADE :

Based on the above conditions the following reserves are estimated.

RESERVES & RESOURCES

Category	UNFC code	Estimated Reserves and Waste in tonnes		
		Dolomite	Steatite	Waste
Proved	111	160605	160605	28552
Total		160605	160605	28552

Surface cum Geological Plan & Geological Cross Section are enclosed vide Plate No3 & 4

(j) FEASIBILITY REPORT ALONG WITH FINANCIAL ANALYSIS PER ECONOMIC VIABILITY OF THE DEPOSIT :

Details of UNFC code justification of the Mineable Reserves.

F-1 (FEASIBILITY STUDY) :

Geology of area and project, Geological exploration, sample for analysis and geotechnical studies in all the villages located within 500m barrier zone of the study area have been completed.

COSTING : The operational cost includes the cost of obtaining Forest, Environmental and Pollution clearances, in addition to the cost involved in obtaining the lease of property for a specific period. Cost of drilling blasting (Hard ore excavation), labour transport and Govt. royalties may be expected to be around five lakh rupees.

CAPITAL COST :

This includes like items apart of jackhammer drills (hard ore excavation), Tractor mounted Air Compressors, Excavator, Tippers and allied items like air hoses and Pick axes etc. Among the mine but essential items are spans, pick axes, crowbars and ore carrying gamelas. These are mostly one time investments. Gamelas need frequent replacement. The cost of one time investment under this head is expected to be of the order of ten lakhs rupees.

OPERATING COST :

Operating cost involved day to day running of the mine. This includes hire Charges for

- (i) Jackhammer drills (hard ore excavation)
- (ii) Air compressors
- (iii) cost of diesel and engine oil.

The major work force required for operating this mine will be the workers required for loading and sizing and of sorting the blasted material. Dolomite and Steatite for being transported to required industries under this head is included salaries of Mines Manager, Mine foremen blaster and other unskilled workers, who will do hard jobs like ore handling and loading of trucks. Roughly the cost of this operation may come to around one core rupees per year.

WORKING COST :

- (1) Royalties, taxes payment to Govt. agencies
- (2) Under this head royalties Payable to the State Govt. works out to be around one five lakh rupees other taxes than may be payable to local bodies may works to about three lakh rupees. The working cost totals to around fifteen lakh rupees.

MARKETING : The Mine owner had done a market survey for Dolomite and Steatite from this deposit, keeping in view the grades of Dolomite and Steatite that can be raised from his lease hold at Mutchukota R.F.

Old pits Exploration carried out in the lease hold indicated that the mine at Compartment no 594 of Mutchukota R.F., Gooty Range, Ananthapuramu Division of Julakalva Village, Singanamala Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 2.03 Hect consist of 28-30% Cao of Dolomite and Steatite which will be most of it is suitable for Sponge, Steel, Pellet, Blast furnace and sintering plants. Market survey indicated that the Dolomite and Steatite of from this mine suitable for Sponge, Steel, Pellet, detergent soaps, ceramic chemical manufactures, Blast furnace and sintering plants. Therefore the mine owner at decided to sell the Dolomite and Steatite to the above mentioned industries. The setting up of large steel & sponge units around the twin cities of Hyderabad, Bellary, Hospet, Ananthapuramu, Vishakapatnam, Mumbai & Chennai etc. falling in AP, Telagana, Karnataka, Maharastra & Tamilnadu states etc. Apart from the above numerous steel plants are coming up in China country. These units require Dolomite and Steatite and thus regular demand for Dolomite and Steatite from these industries. Thus it is seen that there will be demand of Dolomite and Steatite and it is expected that there will be continuous demand from these industries. In view of what has been stated above, cash flow for operating the mine is expected to be encouraging and operating the mine continuously will not be a problem.

ECONOMIC VIABILITY :

Ever year Sponge, Steel, Chemical, Paint, Ceramic, Pellet and sintering plants are in increasing, number and consequently the requirement of Dolomite and Steatite will also increase. It is expected that there may be marginal increasing in the cost of production of Dolomite and Steatite in view of escalation of labour wages and cost

G-1, (DETAILED EXPLORATION)

Detailed geological mapping has been carried out at 1:1000 scales. Geological and survey details have been provided in the geological report. Additionally, Pitting, trenching, drilling sampling of ore were carried out the samples were Systematically analyzed. Grade and category wise geological reserves have been calculated with help of cross sections. Gross geological reserves of Dolomite and Steatite are given below.

GEOLOGICAL RESERVES/RESOURCE, DOLOMITE & STEATITE (OTHER THAN INSECTICIDE (FILLER) GRADE) + STEATITE (INSECTICIDE (FILLER) GRADE) IN STEATITE VEIN

Category	UNFC code	X-sec	X-sec Influence in M	X- Sec Area in Sqm	Volume in Cum	Reserves		Mineral Rejection @ Col. No.6 * 2.0 t/cum * 10. %
						Dolomite @ Col. No. 6*2.5 * 45 %	Steatite @ Col. No. 6*2.5 * 45 %	
1	2	3	4	5	6	7	8	10
Proved	111	AA'	60	906	54360	61155	61155	10872
Proved	111	BB'	80	1105	88400	99450	99450	17680
Total					142760	160605	160605	28552

(k) MINERAL RESERVES :

MODE OF MINING :

During the 5year plan period total production proposed 10253 tonnes of Dolomite and 10253 tonnes of Steatite. The mine will work under 'B' Category underground semi mechanized method. The available mineral in this mine is in form of bands with associated hard Dolomite & Steatite beds only. To excavate about 2.03 Hect in the next five year plan in between E-804600 to E-804800 & N-1642600 to N 1642800 grid lines area proposed for development. The proposed working will be started E-804650 grid line and advanced towards West to East in five years upto E-804800 grid line at the depth up to 305 m RL after leaving 7.5m barrier zone from boundary line of North and South side. The maximum production/annum is expected to be of the order of 2050 tonnes Dolomite & 2050 tonnes of Steatite in coming five years plan period.

RECOVERY FACTOR :

The surrounding existing mining activities are shows that the recovery factor is 90%

MINING LOSSES :

Reserves blocked in the safe benches & UPL safe benches in this mine for categories of 211 & 221 the reserves blocked in the safe benches are detailed are given bellow. The Dolomite & Steatite reserves are going to be blocked under 7.5m barrier zone and safe benches (UPL) on three Sides (N, E, W) of the area. Therefore, the non-mineable reserves are calculated as given below.

Certain quantity of Dolomite & Steatite will be blocked in 7.5m barrier zone & safe benches (UPL) in the recoverable mineral zone. In this zone the sectional area of Dolomite & Steatite is calculated & the same reduced in recoverable reserves as per UNFC Code No. 211 & 221.

Mineable reserves = Geological reserves (UNFC: 111) - Non mineable reserves (UNFC: 211 & 221)

PROCESSING LOSSES ETC.: The Dolomite and Steatite reserves are estimated by cross sectional method to an average thickness of 10m depth alternative bands of Dolomite and Steatite encounter. Based on adjacent mine working pits, drilling of bore holes the depth is confirmed up to 305m RL depth. The mineral rejection 10% expected. There is no beneficiation & Crushing of Dolomite and Steatite in mine site, due to this reason processing losses is very negligible.

CUT OF GRADE : The Steatite produced from this mine will be sold various industries, Paper Mills Rajahmundry & Pondicherry paper mills Pondicherry & other paper, soaps, detergents, paints, pigments, ceramics and cosmetics industries. The brightness of the Steatite required for above industries will be >75%. Dolomite produced from this mine was very good quality this mineral will be sold to Local steel industries the required grade of the Dolomite for the above industries will be Mgo 18 %.

Steatite is useful for painting industries SiO_2 17 to 30 %, Al_2O_3 1.77 % and Cao 19% to 36%. Each Two samples of Dolomite and Steatite samples were collected from pits and sent to Laboratories. The Chemical analysis reports of these samples are given in

Annexure-V.

ULTIMATE PIT DEPTH : The Ultimate pit depths of proved category of reserves are proposed for 355m RL from 305 m RL the proved reserves are estimated in this deposit average 41m depth in below ground level.

MINERAL BLOCKED DUE TO PRESENCE OF /MAINTENANCE OF BENCHES, BARREIRS, INTERNAL ROADS, ELECTRICAL LIES ETC. : Due to underground method of mining there is no chance for reserves blocked in pit slope or safe benches only reserves are blocked in 7.5m barrier zone only. The Dolomite & Steatite reserves are going to be blocked under 7.5m barrier zone towards East and West side only. It is underground method of mining no reserves blocked in safe benches. Therefore, the non-mineable reserves are calculated as given below. Certain quantity of Dolomite & Steatite will be blocked in 7.5m barrier zone in the recoverable mineral zone (Proved zone). In this zone the sectional area of Dolomite & Steatite is calculated & the same reduced in recoverable reserves as per UNFC Code No. 211 & 221.

Mineable reserves = Geological reserves (UNFC: 111) - Non mineable reserves (UNFC : 211 & 221)

NON -MINEABLE RESERVES ESTIMATION

The reserves will be blocked under 7.5 m barrier on two sides of the area.

i.e on East, West, North & South sides i.e. length x width x thickness x T.F x RF =

149m x 15 m x 10 m x 2.5 x 0.91 = 50288 tonnes

Dolomite	25144 tonnes
Steatite	25144 tonnes
Total	50288 tonnes

The total Non mineable reserves are = **50288**tonnes

Total Mineable Reserves are : **270922** tonnes

Dolomite mineable reserves	160605 - 25144	135461 tonnes
Steatite mineable reserves	160605 - 25144	135461 tonnes
Total	321210-50288	270922 tonnes

(iv) TOTAL MINERAL RESERVES :

RECOVERBLE MINERAL RESERVES DOLOMITE AND STEATITE

Classification	Geological Axis UNFC code	Estimated grades	Quantity in tonnes	Estimated Reserves in tonnes	
				Dolomite	Steatite
Total Mineral Resources (A+B) A. Mineral Reserves 1.UNFC 111	G1 111	27 - 30 % Cao 18 - 20 % Mgo 7.62 % (SiO ₂) 1.75 (Fe ₂ O ₃)	270922 tonnes	135461 tonnes	135461 tonnes

NON MINEABLE RESERVES DOLOMITE AND STEATITE

Classification	Geological Axis UNFC code	Estimated grades	Quantity in tonnes	Estimated Reserves in tonnes	
				Dolomite	Steatite
1. Reserves blocked in 7.5 m barrier zone	G1 211 & 221	27 - 30 % Cao 18 - 20 % Mgo 7.62 % (SiO ₂) 1.75 (Fe ₂ O ₃)	50288 tonnes	25144 tonnes	25144 tonnes

Note : No resources are estimated in blocked in 7.5 m barrier zone

MINERAL RESERVES :

Total Estimated Reserves (UNFC-111)	321210 tonnes
Total Estimated Non Mineable Resources (UNFC-211, 221)	50288 tonnes

Total Mineable Reserves = Estimated Reserves - Estimated Non Mineable Resources =
321210 tonnes - 50288 tonnes = **270922** tonnes

Total Mineable Reserves are: **270922** tonnes

Mineral	Geological Reserves in tonnes	Non Movable Reserves in tonnes	Mineable Reserves in tonnes
Dolomite	160603	25144	135461
Steatite	160509	25144	135461
Total	321112	50288	270922

LIFE OF THE MINE :

Initially the total quantity of mineable reserves is considered as marketable reserves. In this way a total mineable reserves of 135461 tonnes of Dolomite, 135461 tonnes of Steatite available in the QL area. As the mine is proposed to produce 2050 tonnes Dolomite, 2050 tonnes of Steatite shall be produced /annum, so the life of the mine is as follows :

DOLOMITE	Total Mineable Reserves of Dolomite	135461	66 years
	Actual anticipated annual production	2050	
STEATITE	Total Mineable Reserves of Steatite	135461	66 years
	Actual anticipated annual production	2050	

3. **MINING :**

(A) **OPEN CAST MINING :**

Not applicable as it is Under Ground method of mining

(i) **DESCRIPTION OF EXISTING/PROPOSED METHOD FOR EXCAVATION WITH ALL DESIGN PARAMETERS INDICATING ON PLANS/SECTIONS :**

MINING : Considering the geology and nature of the mineral occurrence and also due to stable strata condition, the proposed mining will be carried out by underground 'Board & pillar' method. It is proposed to open 4 incline haulages in that 2 manway along the dip direction on South side as Incline Haulage-1 & 3, Incline Haulage-2 & 4 (Manway) keeping a distance of more than 15m. For every 10m horizontal distance one cross (level) cut will be made to connect the Incline haulages and Manway in systematic manner as described below and shown on Plate No. 5.

PRECAUTIONS TO BE OBSERVED DURING DRILLING AND BLASTING :

DRILLING PRECAUTIONS :

- Drilling with dust extractors.
- Use of sharp drill bits, delivery of compressed air at optimal pressure and proper maintenance of compressor and drilling machine.
- Provision of ear plugs /ear muffs to drillers.

BLASTING PRECAUTIONS :

- Proper charge per delay shall be regulated.
- Millisecond delay detonators or sequential blasting exclusively used.
- Stemming column shall be more than the burden to avoid blown out shots.
- Each blast would be is carefully planned, supervised executed & observed by expert staff

SAFETY & SECURITY : The mining areas will be protected by erecting the barbed wire fence and rock walls. Due to these arrangements no trespassing is possible for people as well as animals. The Quarry area will be barricaded with stone wall at the time of abandonment.

SAFETY OF PERSONS : For ensuring safety of persons moving on the common road the following measures are proposed.

- To post sign boards for caution about trucks moving,
- To post one person at vulnerable places to caution persons moving,
- To form speed breakers on road at important places

(ii) **INDICATE YEAR WISE TENTIVE EXCAVATION IN CUBIC METERS INDICATING DEVELOPMENT, ROM, PIT WISE AS IN TABLE :**

The ROM consisting of different material shall be separated as saleable Dolomite, Steatite and waste material by manual hand picking.

Thus the ROM will be separate as mineral wise and different mineral will be disposed to different buyers. The Dolomite & Steatite is in the prospect area below an over burden of about, 10m. As already stated, the OB consists of Calcareous tuff and weathered Dolomite and Steatite bands upto 10m in thickness Dolomite and Steatite directly exposed after 10m depth. For making the 4 Incline haulages first we have to remove the top soil 1.0 m thickness below that soil mixed with trap waste will be generated. The calculation for measurement of the Incline haulages pits are as follows : This top soil and waste will be removed first year of the plan period.

Waste generation while making Incline Haulages I and II Year						
	Length in M	Width in M	Depth in M	Volume in Cum	Bulk density	Waste in Tonnes
Incline Haulage -1 (Hoist)	20	10	6	1200	2.00	2400
Incline Haulage -2 (Manway)	20	10	6	1200	2.00	2400
Incline Haulage -3 (Hoist)	20	10	6	1200	2.00	2400
Incline Haulage -4 (Manway)	20	10	6	1200	2.00	2400
Total						9600

Top soil generation while making Incline Haulages I and II Year						
	Length in M	Width in M	Depth in M	Volume in Cum	Bulk density	Waste in Tonnes
Incline Haulage -1 (Hoist)	20	10	1	200	2.00	400
Incline Haulage -2 (Manway)	20	10	1	200	2.00	400
Incline Haulage -3 (Hoist)	20	10	1	200	2.00	400
Incline Haulage -4 (Manway)	20	10	1	200	2.00	400
Total						1600

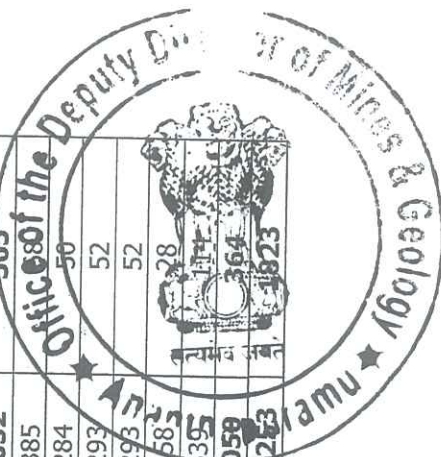
YEAR WISE DEVELOPMENT FOR FIVE YEARS : During the plan period 4 inclines will be made for that around 1600 tonnes of top soil and 9600 tonnes waste will be removed during the I & II year of the plan period. Because for opening of Under ground working initially Incline haulages will be made so first year for excavation of incline haulage pits above said development will be made. After completion of the incline haulages about 2050 tonnes of saleable Dolomite and 2050 tonnes of Steatite and 364 tonnes of waste will be produced in one year of operation with 300 working days by semi mechanized underground method. After completion of the Incline haulages same haulages will be extending along the dip direction and for every 10m horizontal distance on cross cut (level) will be made to connect the 4 inclines (Incline haulage (Hoist) & Incline haulage (man way) by keeping 10m x 10m size pillars between the, Interconnections & Level. It is development cum production programme. The details of development & production plan for 5 years is shown in Plate No 5. The detailed calculation of the development & production plan for 5 years are as follows :

YEAR WISE PRODUCTION FOR FIVE YEARS

Year	Drive	Length in m	Width in m	Height in m	Volume in cum	T.F.	Estimated tonnes	Production in tonnes		Mineral Rejection @ Col. No.6 * 2.0 t/cum * 10 %
								Dolomite @ 45 %	Steatite @ 45 %	
I	i Incline Haulage 1 (Hoist)	42	3	3	378	2.5	945	425	425	76
	ii Incline Haulage 2 (Manway)	42	3	3	378	2.5	945	425	425	76
	iii Level 1	62	2	2	248	2.5	620	279	279	50
	iv Level 2	62	2	2	248	2.5	620	279	279	50
	v Level 3	62	2	2	248	2.5	620	279	279	50
	vi Inter connection	81	2	2	324	2.5	810	365	365	65
	Subtotal						4560	2052	2052	365
II	i Incline Haulage 3 (Hoist)	47	3	3	423	2.5	1058	476	476	85
	ii Incline Haulage 4 (Manway)	47	3	3	423	2.5	1058	476	476	85
	iii Level 1	48	2	2	192	2.5	480	216	216	38
	iv Level 2	51	2	2	204	2.5	510	230	230	42
	v Level 3	53	2	2	212	2.5	530	239	239	13
	vi Level 4	16	2	2	64	2.5	160	72	72	61
	vii Inter connection	76	2	2	304	2.5	760	342	342	364
	Subtotal						4555	2050	2050	364
III	i Incline Haulage 1 (Hoist)	41	3	3	369	2.5	923	415	415	74
	ii Incline Haulage 2 (Manway)	41	3	3	369	2.5	923	415	415	74
	iii Level 4	51	2	2	204	2.5	510	230	230	41
	iv Level 5	51	2	2	204	2.5	510	230	230	41
	v Level 6	51	2	2	204	2.5	510	230	230	41
	vi Inter connection	118	2	2	472	2.5	1180	531	531	94
	Subtotal						4555	2050	2050	364



Year	Drive	Length in m	Width in m	Height in m	Volume in cum	T.F.	Estimated tonnes	Production in tonnes		Mineral Rejection @ Col. No.6 * 2.0 t/cum * 10 %
								Dolomite @ 45 %	Steatite @ 45 %	
IV	i Incline Haulage 3 (Hoist)	54	3	3	486	2.5	1215	547	547	97
	ii Incline Haulage 4 (Manway)	42	3	3	378	2.5	945	425	425	76
	iii Level 4	48	2	2	192	2.5	480	216	216	38
	iv Level 5	66	2	2	264	2.5	660	297	297	53
	v Level 6	54	2	2	216	2.5	540	243	243	43
	vi Level 7	16	2	2	64	2.5	160	72	72	13
	vii Inter connection	56	2	2	224	2.5	560	252	252	45
Subtotal							4560	2052	2052	365
V	i Incline Haulage 1 (Hoist)	38	3	3	342	2.5	855	385	385	50
	ii Incline Haulage 2 (Manway)	28	3	3	252	2.5	630	284	284	50
	iii Level 7	65	2	2	260	2.5	650	293	293	52
	iv Level 8	65	2	2	260	2.5	650	293	293	52
	v Level 9	35	2	2	140	2.5	350	158	158	28
	vi Inter connection	142	2	2	568	2.5	1420	639	639	114
Subtotal							4555	2050	2050	364
Grand Total							22785	10253	10253	729



Proposed development & Production for first five years :

Year	Man way incline (m)	Haulage incline (m)	Inter connection (m)	Level drive (m)	Total development (m)	Production		Mineral rejection
						Dolomite	Steatite	
I	42	42	81	186	351	2052	2052	365
II	47	47	76	168	338	2050	2050	364
III	41	41	118	168	368	2050	2050	364
IV	42	42	56	184	324	2052	2052	365
V	38	28	142	165	373	2050	2050	364
Total	210	200	473	871	1754	10254	10254	1823

A composite plan of year- wise workings for five years were drawn on 1:1000 scales and are enclosed as Plate No 5, shows the details of year wise production and development workings.

I YEAR : As proposed during this year operations it is proposed to develop in the Incline haulage-1 (Hoist) and Incline haulage-2 (Manway) and 3 levels with interconnection of the haulages. Total ROM produced during this year is 10069 tonnes out of which 2052 tonnes of Dolomite and 2052 tonnes of Steatite and 5965 tonnes of waste will be generated. The working area for I year is shown in Plate No. 5.


II YEAR : As proposed during this year operations it is proposed to develop Incline haulage-4 (Hoist) and Incline haulage-3 (Manway) and 4 levels with interconnection of the haulages. Total ROM produced during this year is 10064 tonnes out of which 2050 tonnes of Dolomite and 2050 tonnes of Steatite and 5964 tonnes of waste will be generated. The working area for II year is shown in Plate No. 5.

III YEAR : As proposed during this year operations it is proposed to further extensions of the Incline haulage-1 (Hoist) and Incline haulage-2 (Manway) and 3 levels with interconnection of the haulages.. Total ROM produced during this year is 4464 tonnes out of which 2050 tonnes of Dolomite & 2050 tonnes of Steatite and 364 tonnes of waste will be generated. The working area for III year is shown in Plate No. 5.

IV YEAR : As proposed during this year operations it is proposed to further extensions of the Incline haulage-4 (Hoist) and Incline haulage-3 (Manway) and 4 levels with interconnection of the haulages.. Total ROM produced during this year is 4469 tonnes out of which 2052 tonnes of Dolomite & 2052 tonnes of Steatite and 365 tonnes of waste will be generated. The working area for IV year is shown in Plate No. 5.

V YEAR : As proposed during this year operations it is proposed to further extensions of the Incline haulage-1 (Hoist) and Incline haulage-2 (Manway) and 3 levels with interconnection of the haulages.. Total ROM produced during this year is 4464 tonnes out of which 2050 tonnes of Dolomite & 2050 tonnes of Steatite and 364 tonnes of waste will be generated. The working area for V year is shown in Plate No. 5.

(iii) **DUMP MANAGEMENT :**



Year	Top soil	Waste generation while making Incline Haulage 1 to 4	Mineral rejection in Haulages	Total waste
I	800	2800	365	5965
II	800	4800	364	5964
III	Nil	Nil	364	364
IV	Nil	Nil	365	365
V	Nil	Nil	364	364
Total	1600	9600	1822	13022

During this plan period about 13022 tonnes of mineral waste will generate. This waste can be used for stopping in future. The mineral waste will be stocked in single dump yard of over an area of 0.30 Hect to a height of 6m by keeping the dump slopes at 45deg angles. The location of the site for disposal of waste is shown on the respective Plate No. 5. The site hold waste material generated in course of mining in the twenty years including the five years of the Mining plan. The site may hold amount of waste when the dumps are systematically built upto a height of 6m with a bench system having 3m high benches helping to form contour terraces. The overall slope will be maintained at 45 deg since the dumps are along the road leading to the mine, the danger of overflowing the same on to roads may be prevented by building retaining wall at the toes of dumps. Good root bearing and hardy species such as agaves, acacia etc. shall be planted in the contour trenches at close intervals. Static dump tops and slopes will be stabilized by planting tall saplings, grass and good root bearing saplings such as Agave suckers, Retaining walls (with boulders mine waste material) of suitable size will be constructed around the base of the dumps to prevent sliding and wash off of the material. For stacking the wastage an area of 0.30 Het has been earmarked. The quantity of waste expected to be generated during the next five years of the mine shall be 13022 tonnes. The area proposed for dumping yard towards South Western side of the applied area. It is proposed for dimensions of Dump yard 80m long 30m width and 6m height of land for chosen for dumping for single dump yard to 6m height two terraces proposed with capacity of 13022 tonnes. The proposed dumps material generated in course of mining in the earlier years, including the five years of the Mining plan.

(iv) **LAYOUT OF MINE WORKINGS, PITS, ROADS ETC :**

Layout of mine working, Pits, roads etc: For the next five years, the production of Dolomite & Steatite will be obtained by semi-mechanized underground excavation and 4 open pits will be opened for extension of underground working. Road is already existing as it plain ground and connected to main road.

(B) UNDERGROUND MINING :

As mentioned earlier, the method of mining shall be underground. From the knowledge of exploration, the nature & other geological parameters of the veins of the Dolomite and Steatite are deciphered, considering steep dips of the ore zone, narrow widths of the vein and the nature of the terrain, it is proposed to work the deposit with underground method. Suitable measures will be taken to avoid the surface rain flow in the underground workings.

(i) MODE OF ENTRY :

In the applied area 4 Incline haulages are proposed towards Northern Side of the applied area in that 2 Incline haulage (Hoist) and another 2 Incline Haulage (Manway). Incline Haulage (Hoist) will be used for hoisting the material as an Inclined haulage. This incline shall be laid with 15kg/m section rail of 60cms gauge. Incline haulage (Manway) incline will be used as man way for men passage. The man way incline which is formed at 1 in 5 gradients will be used as a ramp for passage. Since the proposed workings will reach to a depth of 35 to 47m from the surface, the natural ventilation and also Mechanical Ventilator (5 Kw/25mm wg Exhaust fan) will be used for ventilation purpose.

(ii) UNDER GROUND LAY OUT :

The proposed underground lay out consists of the development of the ore body along strike and dip of the formation. The proposed two parallel incline will be opened on Northern side of the area near pillar no 8 to 9 at 35m gap and the same will be extended towards Eastern side i.e., towards down dip side. These 2 inclines will be interconnected with 14 level drives at 10m (Vertical) intervals and at 10m horizontal distance each. The height and width of the inclines haulages will be kept at 3m x 3 m and interconnection and level drive will be 2m x 2m. The extent of proposed development of each year is furnished are as follows :

Year	Man way incline (m)	Haulage incline (m)	Inter connection (m)	Level drive (m)	Total development (m)	Production		Mineral rejection
						Dolomite	Steatite	
I	42	42	81	186	351	2052	2052	365
II	47	47	76	168	338	2050	2050	364
III	41	41	118	168	368	2050	2050	364
IV	42	42	56	184	324	2052	2052	365
V	38	28	142	165	373	2050	2050	364
Total	210	200	473	871	1754	10253	10253	1823

Regarding underground electrification, initially cap lamps will be provided later on after obtaining permission from DGMS and APSEB, the underground electrification will be done with electricity.

- (iii) **SYSTEM OF DRILLING & BLASTING** : In the development of incline drives, the easer and dresser holes will be drilled parallel to the dip of the formation and the cut holes will be drilled in incline towards the centre of the drive to a depth of 1m. Whereas in level drives, the easer and dresser holes will be drilled horizontally and cut hole will be drilled in incline towards the centre of the drive. The systems of drilling pattern of Incline & Level drive is shown in **Annexure-VI**.

The slurry explosives in the form of cartridges will be used two for each cut hole, two for each easer and one for each dresser holes, which is consuming about 5kg per round in development faces. In a development incline or Level about 6.75 cum (08.3 X3m) or 18 t (7.2 X 2.5) of material will generate per one round of blasting. (i.e 3m x 3m is the size of the drive/ inclines, 0.8m expected pull & 2.5 is the average bulk density).

The powder factor is about (18t /5kg). No secondary blasting is required because the expected fragmentation is good. The applicant is advised to apply for explosive licence to have portable magazine of 50kg capacity at mine site. The required quantity of explosives is given below:

The average development per year will be about 350 m and it requires about 2188kg (350 x 3 x 3 x 2.5=7875t/3.6kg = 2188 kgs) of slurry explosives. The total number of drill holes will be 4/per round and for 4 holes needed 4 nos of detonators. For every two days one round of blasting is required to achieve the target production.

- (iv) **METHOD AND SEQUENCE OF STOPPING** :

No stopping is proposed during the plan period, however in future it is proposed to extract the mineral by overhead of cut and fill method of stopping and filling the voids with the waste rock material, which will be brought down through a set of winzes. By the way all the waste rock generated during the development, will be completely utilized for the filling up the voids.

- (v) **SYSTEM OF UNDERGROUND TRANSPORTATION** :

The inclined track line shall be laid down and the haulage bottom will be connected to the underground levels. The inclined haulage will be provided with track line with tubs. The tubs will be loaded by manually and the same will be hoisted to the surface, through skip winding these hoisted tubs are unloaded into the ROM stock yard.

- (vi) **SYSTEM OF WINDING/HOISTING** :

It is proposed to install a hoist on surface near haulage, equipped with 15 HP electrically operated motor coupled with winch and rope of 5/8" dia. The Haulage shall be provided with track line. Haulage bottom will be connected to the level.

The excavated material from levels will be shifted to the haulage and unloaded into tub by manually and the same will be hoisted to the surface through tub. The hoist tub will be unloaded into the ROM stock yard, where the different minerals & waste will be segregated by hand picking.

(vii) **SUBSIDENCE MANAGEMENT :**

No subsidence is proposed to be carried out in first five years period. During the first five years the subsidence management not yet proposed, due the lower level depth of mineral excavation proposed up to level -9 only. The subsidence shall be taking place repeatedly and therefore subsidence management measures shall have to be planned accordingly. A methodology for such a subsidence management will suggest in first scheme of mining

(viii) **MINE VENTILATION :**

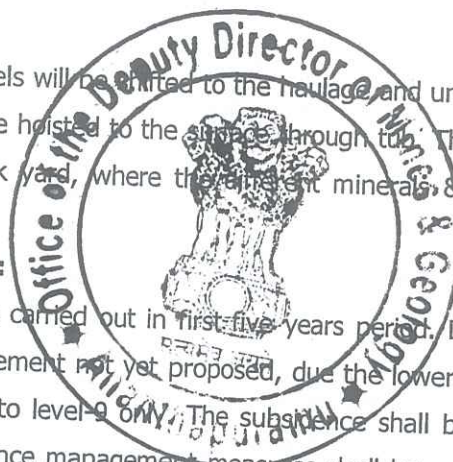
The aim of mine ventilation is to provide for work persons in the underground air with permissible standards as stipulated below.

Oxygen	Not less than 19 %
Carbondioxide	Not more than 0.5 %

After blasting within 5 minutes dilution of CO and NOx should be less than 50 ppm and 5 ppm respectively.

Quantity of air /person	Not less than 6 cum
Velocity	Not more than 4m/second in working face
	Not more than 8m/second in shafts/inclines with man winding
	Not more than 15m/second in ventilation shaft without man winding

Upto 10m depth of working without much lateral extension of working, natural ventilation shall suffice supplemented by compressed air for clearing of noxious fumes. The proposed mine incline depth is about 200m. Necessary devices will be provided where & when necessity arises during development and subsequent stages. Beyond the depth of 10m mechanical ventilators are proposed to be placed in a fan drift close to incline haulage no. 1. The axial flow exhaust fan driven by 5Hp motor supplying about 300 cum of air which will be sufficient even where 50 persons are employed underground in any shift. The ventilation circuit & air regulatory devices are shown in Plate No. 6.



- (ix) **EXTENT OF MECHANIZATION** : For conducting of the proposed underground operations the following equipment will be required.

Item No.	Description	No. of Units
01	Diesel/electrically operated compressor (400 cfm/mt)	02
02	Jack hammers	04
03	Hoist/Winder (12 HP) with 4 kip	02
04	Mechanical Ventilator (5 Kw/25mm wg Exhaust fan)	02
05	Pumps (10 HP)	04
06	Tipping tubs (0.5 tonnes capacity)	06
07	Track line	500 m
08	Cap lamps	40 nos
09	G.I. Pipe line	75mm 200m 25mm 100m

4. **MINE DRAINAGE :**

a) **MINIMUM & MAXIMUM DEPTH OF WATER TABLE BASED ON OBSERVATION FROM NEAR BY WELL & WATER BODIES :**

WATER TABLE :

The QL area is almost gently slope towards West. Only rain water drains through the slopes during rainy season. A water garland (1mx1m) shall be formed to see that no rainwater comes to the Inclines from higher reaches (Plate No.9). The ground water table around the lease area is about 30m during winter season and 50m during summer. The maximum anticipated vertical depth will be around 25m. So there is no possibility of encountering ground water into even the bottom most underground workings. The water garland around the shaft is constructed by making a trench as shown in Plate No.9 to avoid the runoff water of monsoon entering the underground.

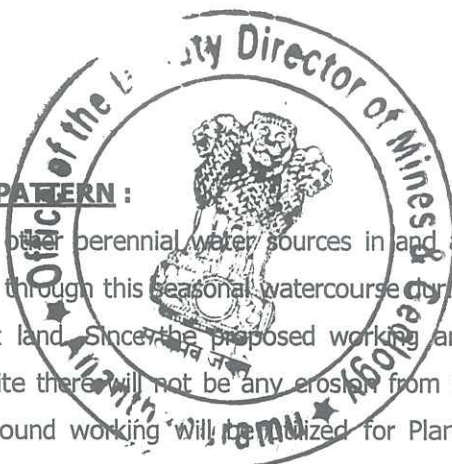
The water garland around the shaft is constructed by making a trench as shown in Plate No.10 to avoid the runoff water of monsoon entering the underground.

b) **INDICATE MAXIMUM AND MINIMUM DEPTH OF WORKINGS :**

The maximum working RL is 355 m and minimum working RL is 305 m.

c) **QUANTITY AND QUALITY OF WATER LIKELY TO BE ENCOUNTERED, THE PUMPING ARRANGMENTS AND PLACES WHERE THE MINE WATER IS FINALLY PROPOSED TO BE DISCHARGED :**

Around 500 cum of water is estimated. Hence it is proposed to pump out all the water accumulated before mining operations carried out by using 2 electrical motors with 10 H.P capacity. The only water that will be encountered in ground water. Since the country rock is dolerite and impervious in nature, there will not be much ground water. Only at the contact of dolerite and clays which is fracture zone some ground water will be occurred and at the time of mining the quantity of ground water will be estimated and necessary arrangements will be provided for the dewatering purpose.



d) **REGIONAL AND DRAINAGE PATTERN :**

There are no rivers, tanks and other perennial water sources in and around the area. The surface rain water will flow through this seasonal watercourse during rainy seasons and joins to nalah in adjacent land. Since the proposed working area underground method and out crop in dolomite there will not be any erosion from the surface. The water generated from underground working will be utilized for Plantation and Dust suppression purpose. The average rain fall in this area will be highest rain fall 500 mm/annum and lowest rain fall 400 mm/annum.

5. **STOCKING OF MINERAL REJECT/SUB GRADE MATERAIL & DISPOSAL OF WASTE :**

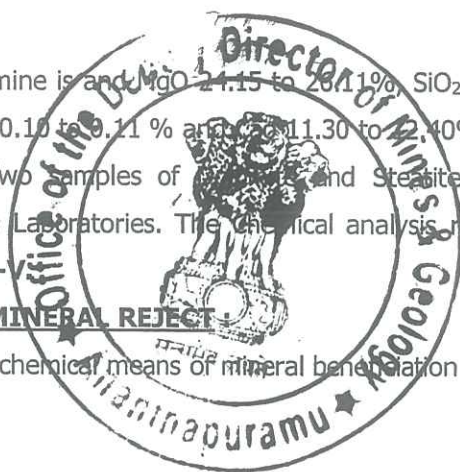
Year	Top soil	Waste generation while making Incline Haulage 1 to 4	Mineral rejection in Haulages	Total waste
I	800	4800	365	5965
II	800	4800	364	5964
III	Nil	Nil	364	364
IV	Nil	Nil	365	365
V	Nil	Nil	364	364
Total	1600	9600	1822	13022

About 10% of the wastage expected to be mineral waste as it which consists of intercalation of is calcareous and weathered dolomite. During first five years about 13022 tonnes of mineral waste will be generate. This waste will be stacked on South West of the leases area of during these five years. The location of this site is shown on Plate No 5. After mining the five years waste stacked will be used for reclamation of the pit. It is always ensured that, dump height does not exceed 6m (with 2 steps 3m each) and the slopes are suitably protected from any environmental damages, providing all protective measures. At foot of the dumps proposed to construct retaining walls to avoid wash off the material due to rains. The dead dumps will be stabilizing by putting hemata grass & other good root bearings.

6. **USE OF MINERAL & MINERAL REJECT :**

The steatite produced from this mine will be sold various industries, Paper Mills Rajahmundry & Pondicherry paper mills Pondicherry and other paper, soaps, detergents, paints, pigments, ceramics and cosmetics industries. The brightness of the steatite required for above industries will be >75%. Dolomite produced from this mine was very good quality this mineral will be sold to Local steel industries the required grade of the dolomite for the above industries will be Mgo 18 %. Steatite is useful for painting and chemical and fertilizers industries. The analysis of Dolomite in this mine is and Cao 31.10 to 32.50%, MgO 21.58 to 22.15 %, SiO₂ 3.87 to 4.75 %, Al₂O₃ 0.81to 0.85 % and Fe₂O₃ 0.13 to 0.15 %.

The analysis of Steatite in this mine is and MgO 24.15 to 26.11%, SiO₂ 47.15 to 48.13 %, Al₂O₃ 1.45 to 1.72 %, Fe₂O₃ 0.10 to 0.11 % and CaO 11.30 to 12.40%. & Brightness is 75.45 to 78.15 %. Each Two samples of Dolomite and Steatite samples were collected from pits and sent to Laboratories. The chemical analysis reports of these samples are given in **Annexure-V**



7. PROCESSING OF ROM AND MINERAL REJECT

There is no any mechanical and chemical means of mineral beneficiation in this mine.

8. OTHERS :

(a) SITE SERVICES :

A small office, rest shelter, first aid room and urinal will be proposed to construct with in the applied area after grant of the lease.

b) EMPLOYMENT POTENTIAL :

Sl. No.	Particulars	Total No's
1	Mines Manager	1
2	Mine Mate cum Blaster	1
3	Mine Supervisor	2
4	Semi Skilled	10
	Un Skilled	26
Total		40

Since the winning of Dolomite and Steatite mining involved only manual. About 26 workers shall be employed.

PROGRESSIVE MINE CLOSURE PLAN :**1. ENVIRONMENTAL BASE LINE INFORMATION****EXISTING LAND USE PATTERN :**

The subject area of Forest land and applied for mining. In the applied area few old small pits existing and remaining area is barren land.

WATER REGIME : No perennial water source is passing through the area and also no ground water recharge sources like streams or tanks are situated around the lease area. Only rainwater valleys are seen in the area. The underground water table is occurring at 30m depth from the surface.

HUMAN SETTLEMENTS : Within the QL area there are no villages or human settlements. There is no question of any evacuation or resettlement of people elsewhere. Workers come from village, which are more than 3.25 Km away. Within the buffer zone there are 8 villages and their populations are given below :

Name of the Village	Distance in Km	Population	Direction
Mutssukota	5.00	2300	NE
Maddalapalle	4.60	600	SW
Nayanipalle	5.00	750	SW
Jalalpuram	5.00	700	SW
Julakalva	3.25	900	SW
Chillpalle	5.00	350	SW
Alangarpeta	3.45	350	NW
Korivipalle	5.00	580	NW

PUBLIC BUILDINGS, PLACES OF WORKSHIP AND MONUMENTS :

There are no buildings and monuments of historic importance within the applied area.


SANCTUARIES : There are no sanctuary near by the lease hold area.

ECO-SENSITIVE AREA ETC :

There are no Eco-sensitive areas near by the applied area.

2. IMPACT ASSESSMENT :**(a) LAND AREA :**

LAND USE PATTERN	
Particulars	Area in Hect
Area for Mining	0.81
Area for Dumping	0.30
Area for Stock yard	0.10
Area for Internal Roads	0.15
Area for Temporary shed/Magazine	0.02
Area for Plantation /Safety zone Area	0.65
Total Area	2.03

- 
- (b) **AIR QUALITY** : In general Mining activity contributes to pollution of air due to working of mining equipment transportation etc. Therefore the SPM count in the air will increase to some extent due to vehicular movement and through the return air which have some particulate matter. Wet drilling will be proposed in the underground to suppress the dust due to drilling. Apart from this dust masks will be also be supplied to the drilling crews.
- (c) **WATER QUALITY** :
Except a seasonal watercourse in the applied area, there is no perennial river /nallahs or springs are present in the area. Natural valleys drain the rainwater. As water table is at a very low depth there is no water pollution due to discharge of water during monsoon. To check the erosion and prevent silt being carried during monsoon period, a series of gully checks would constructed at regular intervals. Dolomite and Steatite being an inert material, does not contribute any hazardous ingredient to water excepting increase in some turbidity due to suspended solid particles.
- (d) **NOISE LEVELS** : Only Underground mining is proposed. Therefore, the back ground noise levels will be below. The area is away from roads where frequent traffic is encountered. General noise level is expected to be less.
- (e) **VIBRATION LEVELS (DUE TO BLASTING)** :
The major cause of vibration is blasting. As the mines being operated at with less machinery and the blasting is also minimum the vibration.
- (f) **WATER REGIME** : There are no perennial surface water bodies with-in the lease area. In this deposit, as the mineral does not contain any harmful ingredients that could leach down to the water table hence there is no pollution of ground water.
- (g) **ACID MINE DRAINAGE** : Not applicable
- (i) **SURFACE SUBSIDENCE** : As it is small scale underground mine as the foot wall and hang wall was massive dolomite rock so there no chance for surface subsidence, even though lessee will be provide cog support will be made and appropriate places.
- (j) **SOCIO-ECONOMICS** : There are 8 villages falling within the buffer zone with a total population of 6530 people. They all depend upon agriculture. There will be no adverse effect on their socio-economic environment. Besides, mining gives additional income to the labourers.
- (k) **HISTORICAL MONUMENTS ETC** :
There is no historical monument or historic importance places with in the applied area.
- (l) **BIO-DIVERSITY** :
The Natural plantation in the QL area is only small bushes with thorny type only. Lease area is covered by Dolomite.

3. **PROGRESSIVE RECLAMATION PLAN**

There will be some incline haulages and the connect layout disturbing the land on the surface. After the mining through these haulages, the haulage shall have permanent walls built around them to protect persons and cattle falling into them. Around these haulage trees shall be planted. The area where initially a waste dump is put shall be reclaimed by backfilling the material into the stoped out areas. Proposed Retaining wall and Parapitwall around the pit will be proposed.

Proposed Parapitwall					Proposed Afforestation	
Year	Length in m	Width in m	Height in m	Location	Plantation in No	Location
I	100m	1.0m	1.5m	Bottom of the	300	7.5 m Safety Barrier along the QL Boundary and old dumps
II	100m	1.0m	1.5m	Dump slope	300	
III	100m	1.0m	1.5m	side along	300	
IV	100m	1.0m	1.5m	the QL	300	
V	100m	1.0m	1.5m	boundary	300	

4. **MINED-OUT LAND :**

An effective programme of land restoration will be drawn and implemented to bring back the status to as near the pre-mining conditions as possible. The salient features are as enumerated below. A green belt development will be planned meticulously. It is proposed to reclaim all the worked out area by suitable soil conservation and afforestation methods. This operation is carried out concurrent to mining. The roads shall have avenue trees and thus a green belt developed. Land degradation will take place by dumping of waste, and the reclamation of this dumping area shall also be included in the programme. It is always necessary to keep the area under disturbance at any stage to the minimum possible. This can be achieved by ensuring reclamation of the excavated area simultaneously with mining activities by reducing the gap between reclamation and excavation to the minimum.

5. **TOPSOIL MANAGEMENT :**

Around 900 tonnes of top soil will be generate during the first & second year of the plan and this topsoil is encountered in the mine it will be selectively removed, stacked separately. It will be used to spread over the 7.5 m buffer area for afforestation or shall be used during regular afforestation programme.

6. **TAILINGS DAM MANAGEMENT :**

Not applicable, because in the applied area there are no tailing dams, however the applicant has proposed to construct some check dams outside the applied area.

7. **DISASTER MANAGEMENT & RISK ASSESSMENT**

The complete mining operation will be carried out under direction of qualified mines manager and superior mining personnel, following the directions of Directorate General of Mines Safety (DGMS) and officers of Department of Mines & Geology.

Code of practice of different operations will be formulated to maintain of high standard of safety. Work persons have been given vocational training and further the standing will be continued to new entrants. No high risk accidents are anticipated as the project is an small underground mining operation in a fairly stable area free from land subsidence, earthquake etc. No tailing is proposed and there is no associated risk. However, in case of any eventuality the following person will be available for contact

DISASTER MANAGEMENT PLAN BASED ON RISK ASSESSMENT

Duty of any person :

Any person, realizing that anything serious has happened anywhere belowground, shall immediately inform the nearest mining official.

Duty of Mining Official/ Foreman :

Any official, on being informed that a disaster has occurred shall immediately

Verify the veracity of information,

Withdraw all work persons under his charge to the previously designated safe place /shelter.

Duty of Attendance Clerk :

On receiving the information of a disaster he shall immediately

Sound a hooter or siren declaring a state of emergency, send information by all members of the consultative committee available at the mine; and then all key personnel at the mine;

Prepare a statement, showing number and names of persons in different parts of the mine, and send a copy to the operations control room.

Duty of Telephone Operator/Attendant :

On hearing of a disaster from the mine or by emergency hooter, he shall.

Establish the contacts from the mine and collect the details

Send the information, over telephone, to the following in order of priority

All members of the standing consultative committee,

All key personnel stationed at the mine,

All managers of adjoining mines

Duty of Store keeper :

On hearing the emergency siren, he shall immediately

Proceed to the stores,

Check the materials according to the emergency list,•

Arrange for procuring additional materials from central stores/other mines, in consultation with the other mine in consultation with the control room

Duty of Managers of Adjoining Mines

The manager of adjoining mines shall immediately

Alert key personnel likely to be required and

Proceed to the operations control room

In case of an apprehended danger to their own mine, however, they shall activate their own emergency organization.

Duty of transport Officer :

He shall report to the operations control room

Check on calling out the Rescue Team and First aid men,

Obtain list of men in the pit from the attendance clerk, and give copies to the officer in charge of the Control Room

Duty of Engineer :

The engineer shall:-

Report the control room,

Contact the store Keeper.

Send messengers from the mine to call such workmen and mechanics are required.

Duty of Doctor :

He shall

Report to the control room,

Proceed to the mine forthwith, taking such instruments and drugs as are likely to be useful,

Duty of welfare officer :

He will report the control room & assist in the preparation of the following accommodation

Stretcher casualty station,

Sleeping accommodation

Get a copy of the list of men in the pit from the clerk and make the arrangement of food for all members involving in the rescue and the victims.

Duty of Security Staff :

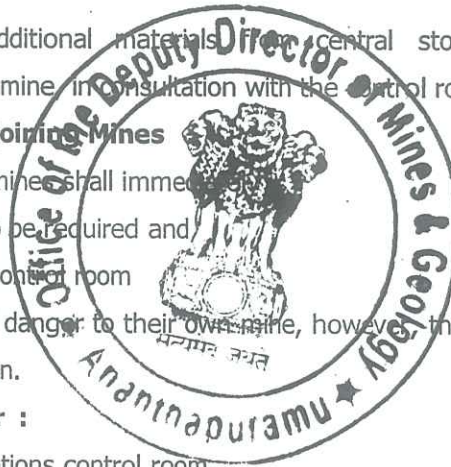
They are to control roads and keep them clear for ambulance and other motor vehicles

While in emergency regarding fire, Hospital, police Stations have to be intimate the following places:

Fire Station: Ananthapuramu (District)

Health center: Ananthapuramu (District)

Hospital: Ananthapuramu (District)

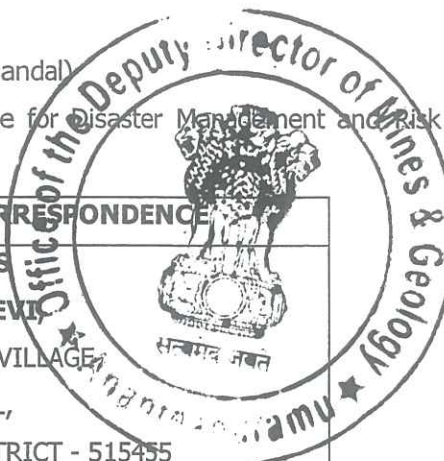


Police station : Singanamala (Mandal)

The contact person responsible for Disaster Management and Risk Assessment is as follows :

NAME & ADDRESS FOR CORRESPONDENCE

M/s RAMA MINERALS
Prop : **SMT.B.RAMADEVI**
1/35, MUTCHUKOTA VILLAGE
PEDDAPAPPUR MANDAL,
ANANTHAPURAMU DISTRICT - 515455
Mobile No : 9908620996



AMENITIES PROVIDED TO THE EMPLOYEES :

Helmets once in three years as needed under Mines Act.

Safety shoes to all the employees twice a year as per the same statute

Safety goggles and hand gloves to the Drilling operators.

Cap lamps to all the persons working in underground.

Dust mask to all the laboures, and other step to improve safety condition is to include the safety culture among the persons working.

Rest shelter, First Aid room, Urinals, Toilet and Drinking water to laboures.

TIME SCHEDULING FOR ABANDONMENT :

The present plan is a progressive quarry closure plan indicating the reclamation measures being taken up simultaneously with the quarrying operations. No abandonment of quarrying activities at present. The time schedule, man power and other resource for implementing the protective and rehabilitation measures will be dealt in detail in the final quarry closure plan to be prepared for approval before abandonment of the quarry.

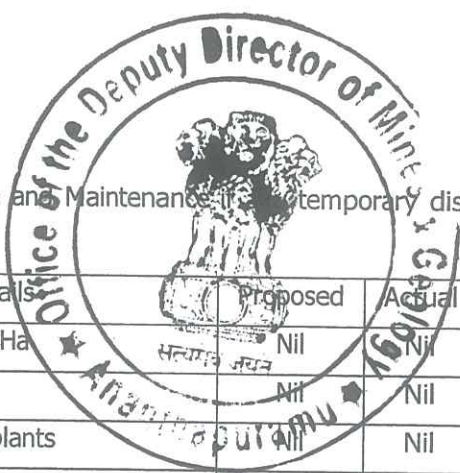
8. CARE & MAINTENANCE DURING TEMPORARY DISCONTINUANCE :

All the provisions as per the Mines Act 1952 shall be strictly adhered during temporary discontinuous.

ECONOMIC REPERCUSSIONS OF CLOSURE OF MINE & MANPOWER RETRENCHMENTS

This project would be operated by both the permanent and temporary manpower through Contractors. The contractors will engage this manpower in other running projects after the completion of mining operations. However, a suitable compensation package would be drawn out at the end of the mining operations as per the existing laws of the land upon mine closure.

The lessee will take proper Care and Maintenance in temporary discontinuance of mining operations.



Item	Details	Proposed	Actual	Remarks
Dump management	Area afforested in Ha	Nil	Nil	Nil
	No of saplings	Nil	Nil	Nil
	Cumulative no of plants	Nil	Nil	Nil
	Cost including watch and care during the year	Nil	Nil	Nil
Management of worked out benches	Area available for rehabilitation Ha	Nil	Nil	Nil
	Afforestation done ha	Nil	Nil	Nil
	No of saplings plant in the year	Nil	Nil	Nil
	Cumulative no of plants	Nil	Nil	Nil
	Any other method of rehabilitation (specify)	Nil	Nil	Nil
	Cost including watch and care during the year	Nil	Nil	Nil
Reclamation and Rehabilitation by backfilling	Void available for Backfilling (Lx B x D) pit wise/stope wise	Nil	Nil	Nil
	Void filled by waste/tailings	Nil	Nil	Nil
	Afforestation on the backfilled area	Nil	Nil	Nil
	Rehabilitation by making reservoir	Nil	Nil	Nil
	Any other means (specify)	Nil	Nil	Nil
Rehabilitation of waste land within lease	Area available (Ha)	Nil	Nil	Nil
	Area rehabilitated	Nil	Nil	Nil
	Method of rehabilitation	Nil	Nil	Nil

9. **FINANCIAL ASSURANCE :**

The Financial assurance has been calculated as per under rule 7 (A) APMMR 1966 and submitting in accordance with Amended G.O.Ms No 56, Industries & Commerce (M.II), dated 27-02-2019. The details breakup of the land is given in below. Bank Guarantee for financial assurance in Model Form "T" for Rs 50,000/- will be given as our area 2.03 Hect Only. The bank guarantee will be submitted to the Assistant Director, Department of Mines & Geology, Tadipatri. At time of Execution of the QL area.

10. INFORMATION INDICATING BREAK UP OF AREAS IN THE MINING LEASE FOR CALCULATION OF FINANCIAL ASSURANCE SHALL BE IN THE FORMAT GIVEN BELOW :

Sl. No.	Type of land use	Area of land use in ha			The area considered as fully reclaimed & rehabilitated	Net area considered for calculation of financial assurance (figures of column 4 or 5 marked with asterisk (*) minus figures of column 6)
		As at present	As at the end of planned period of 5 years	As at the end of conceptual period (life of the mine)		
1	2	3	4	5	6	7
1	Area of under Mining	-	0.810	0.810	-	0.810
2	Storage for top soil	-	-	-	-	-
3	Waste Dump site	-	0.300	0.300	-	0.300
4	Mineral storage	-	0.100	0.100	-	0.100
5	Infrastructure (work shop, etc)	-	0.020	0.020	-	0.020
6	Roads	-	0.150	0.150	-	0.150
7	Tailing pond	-	-	-	-	-
8	Effluent treatment plant	-	-	-	-	-
9	Mineral separation plant	-	-	-	-	-
10	Other (Plantation)	-	0.650	0.650	-	0.650
	Total (which should be equal to the lease area in each of columns 3, 4 & 5)		2.030	2.030		2.030


M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

For M/s Rama Minerals,


B. Ramadevi,
Proprietor

The Mining Plan is Approved
Subject to the conditions /
Stipulations Indicated in The
Mining Plan Approval Letter
No. S92/MP.T.R.2022.....Dated.....

20/05/2022

APPROVED

P. Venkateswara Reddy
Deputy Director of Mines and Geology (FAC)
Ananthapuramu

Joint Director of Mines & Geology
Renewal Application Form

Application Details:-

Type of application: ☐ Reconnaissance (RP) ☐ Prospecting License (PL) ☐ Mining Lease (ML) ☐ Granite Quarry Lease (GQL)

Category of the mineral applied: ☐ Marble (Quarry Lease) (ML) ☐ Other Quarry Lease (OQL)

Name of the Mineral Applied: Granite and Dolomite

Category of Application: ☐ New Application ☐ Renewal Application ☐ Transfer Application

Renewal License No (in case of Renewal): ramu

Transferee Name (in case of transfer):

Applicant Details:-

Whether Individual/Firm: ☐ Individual ☒ Firm

Name of the Applicant: RAMA MINERALS

Name of the Proprietor / Director / Managing Partner (in case of Firm): B. RAMA DEVI

State: ☒ Andhra Pradesh ☐ Other State Other State Address (in case of Other state):

Door No: 1/35 Locality/Landmark:

Mandal: P. Pappur Village/Ward: Muchhukota District: Anantapur

Email-id: rama.sreeramt@gmail.com Land Phone: 0855A-255996 Mobile Number: 9908620996 Fax:

Pan Card No. Of the Company: APIPR2921L

Existing Lease No:

S.NO.	LEASE NO.	NAME OF THE COMPANY/FIRM	DISTRICT	LOCATION
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Location of the Applied Area:-

District: Anantapur Mandal: Binganamala Village: Jalakaluru

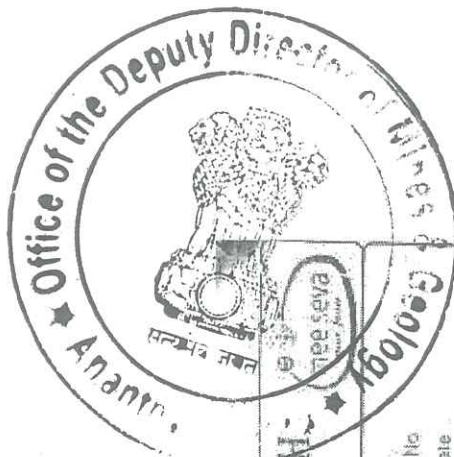
Category Of Land: ☐ Govt Land ☐ Patta Land ☒ Forest Land ☐ Govt Land & Patta Land ☐ Patta Land & Forest Land ☐ Govt Land & Forest Land

Khasra/Survey No: Compartment No: 594/P Division: Anantapur

Range: Gooty Extent Applied (in Hectares/in Square Kilometer): 2 Hectares

No of Geo co ordinator Points: 13

RAM MINERALS
B. Ramadevi
PROPRIETOR



GOVERNMENT OF ANDHRA PRADESH
Electronic Service Delivery

Payee Name
 Name of Dept/Agency
 Payee Code No
 Payee Code Name

Date : 09/11/2017
 Time : 3:56 PM

Dept Receipt No
 Transaction Date

MINERAL CONCESSION APPLICATION

ES/EVA-FAP-019
 RANA MINERALS
 Other Quarry Lease
 0000013774
 165.00 (Rs. 25 Year Charges, Rs. 150 Courier Charges)
 Within 30 working days from requested date

Application No :
 Sequence of Applications :
 Extent Applied :
 2 Hectars

TAMIN011700059943
 MIN011700059943
 Fresh Application

Application No :
 Type of Application :
 Chaland No :
 Amount Paid (Rs.) :
 Time Limit For Final Disposal :

As the Service Tax 12/36 % is added to existing postal charges, Existing Charges

Staff Code / Shift Counter
 Total
 Signature



ORIGINAL

STO: TADPATRI

TREASURY/PAD Code

1 0 1 0

Treasury Challan No :

0000013774

Major Head :

0 8 5 3

Sub-Major Head :

0 8

Minor Head :

STATE BANK INDIA, TADPATRI

Group Sub-Head :

N: 5535603 A.RAVITEJA

Sub-Head :

SBI 08 NOV 2017 Code

Detailed Head :

Queue No. 1 923

Sub-Detailed Head :

Check ID No. 1 923 Initials

Non-Plant/Plant :

N

Charged/Voted :

V

Non-Contingency/Contingency :

N

Amount Rs. :

12500

In words Rupees :

Twelve thousand five hundred Rupees Only

Purpose :

Remitter's Name & Address :

Towards Application & Survey
KANA MINERALS, Prop: S. Rama
Daxi, #125, Mulchukota Village,
Peddapur
MURTHY & SONS
GEOLOGY TADPATRI

DD Code :

DD/M/2017

Dated

Received Rs. 12500/-

Signature of the Remitter

Head of Account verified

S.T.O.T.O

S.T.O. Bank Manager

by Cash/D.D./Cheque

Bank Branch Code :



Note: Separate challan should be submitted for detailed head
Note: This Challan does not need endorsement of the treasury

GOVERNMENT OF ANDHRA PRADESH

FORM-P

**APPLICATION FOR QUARRY LEASE FOR GRANITE, MARBLE AND 31 MINERALS
MENTIONED AT SLOP. 18 TO 48 IN SCHEDULE I OF RULE 10 TO BE**

**SUBMITTED
(SEE RULE 12 (5))**

Received: _____
(Place)
(Date)
Initial of Receiving Officer: _____

To
The Director of Mines & Geology,
Sri Anjineya Towers,
D/No:7-104,B-Block,5th & 6th floors
Ibrahimpattam-
Vijayawada-521456.
Andhra Pradesh.



(THROUGH THE ASSISTANT DIRECTOR OF MINES AND GEOLOGY, TADIPATRI)

Sir,
I/we request that a Quarry Lease under the A.P.M.M.C.Rules, 1966 may
be granted to Rama Minerals

2) A sum of Rs. 12500/- And Rs. 50000/- Being the fees in respect to this
application and deposit respectively payable under sub-rule (5-a) of Rules 12
(vide Receipt Challan No:013774, Dt:08-11-2017 of the S.B.I/Treasury /
Tadipatri & Challan No:013779, Dt:08-11-2017 of the S.B.I/Treasury /
Tadipatri.

	The required particulars are given below	
1)	Name of the Applicant with Complete Address	Rama Minerals Prop: B. Ramadevi, # 1/35, Mutchukota Village, Peddapappur Mandal.
2)	Status of the applicant is the applicant a private individual / Co-operative / firm association / Private Sector Undertaking / Joint Sector undertaking or any other	INDIVIDUAL FIRM
3)	In case the applicant is	
a)	an individual his nationally, qualifications and experience relating to quarrying	Indian
b)	a company and attested copy of the Certificate of Registration of the company shall be enclosed	Individual
c)	Firm or Association, the nationality of all the partners of the firm or members of the association and	Individual

d)	Co-operative, the nationality of non-Indian members, any along with place of registration and a copy of the Certificate of Registration.	Individual
	Profession or nature of business of applicant	Business
	Particulars of documents appended	Affidavit Enclosed
a)	Mining Dues Clearance Certificate	Affidavit Enclosed

(OR)

b)	Affidavit in lieu of Mining Dues Clearance Certificate Subject to the production of mining lease dues, clearance Certificate within the period of ninety days of making application.	Affidavit Enclosed
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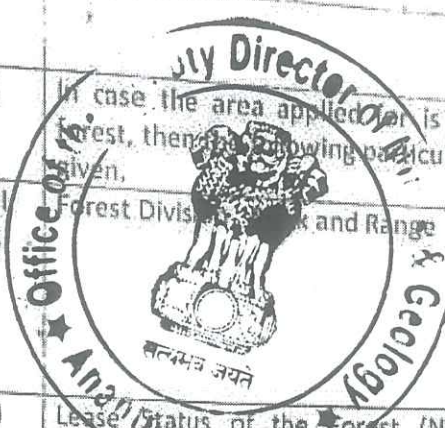
(OR)

c)	Affidavit when not holding any lease	Affidavit Enclosed
6)	Mineral or Minerals which the applicant intends to Quarry	Steatite and Dolomite
7)	Period for which quarry lease is required	20 Years
8)	Extent of the area for which quarry lease is required	2 Hectares (4.95 Acres)
9)	Details of the area in respect of which quarry lease is required:	

District	Mandal	Village	Survey No.	Extent	Area Ownership/ Occupancy
Anantapur	Singanamala	Mutchukota R.F.,	Comp No. 594/P	2 Hectares	Reserve Forest

10) Brief description of the area with particulars reference to the followings

a)	Does the applicant have surface rights over the area for which he is making an applicant for grant of a quarry lease.	No, Reserve Forest
b)	If not, has he obtained the consent of the owner, and the occupied of the land for undertaking quarrying operation. If so, the consent of the Owner and occupied of the land be obtained in the writing and be filed	Reserve Forest
XI a)	A copy of Village Map which is not in lease scale than village map showing the area applied for the situation of the area in respect of natural features such as streams or Lakes	This aspect will be covered in the Mining Plan.
b)	In the case of village area the, name of the village, the khasra number, the area in hectares of each field or part here of applied for:	Comp No:594/P, Mutchukota R.F., Sinaganamala Mandal of

		Gooty Range, Anantapur Division
c)	In case the area applied for is under forest, then the following particulars be given.	
XII	Forest Division and Range	
a)		Comp No. 594/P, Mutchukota R.F., Sinaganamala Mandal of Gooty Range, Anantapur Division
b)	Lease status of the Forest (Namely : reserved protected, unclassified etc)	Mutchukota North Beat Reserve Forest

13	Particulars of the area mineral wise in each State duly supported by an affidavit for which the applicant or any person joint in interest with him	—
a)	Already holds under Quarrying Lease	—
b)	Has already applied for but not granted	—
c)	Being applied for simultaneously	—
14)	Does not applicant hold a prospecting licence over the area mentioned at (xi) If so, give its number and date of , grant and the date when it is due to expire	NO
a)		
b)	Has the applicant carried out the prospecting operations over the area held under prospecting licence and sent his report to the State Government, required by rule 16 of the Mineral Concession Rules, 1960. If not, state reasons for not during so.	NO
c)	Nature of the land chosen for dumping over burden/waste and tailing (that is type of land whether agricultural, grazing land, barren, saline land etc) and whether proposed site has been shown of the mine working plan. Give also the extent of area in hectares set apart for dumping of waste and tailings.	Over burden and Dumps will be dumped within the leased area.
15)	A report giving the details of prospecting carried out in the area together with assessment of ore reserves geological plans results of of chemical analysis of representative sampled and bore holes and logs.	This aspect will be covered in Mining Plan

16)	Manner in which the mineral raised is to be utilized	After Beneficiation and Crushing.
a)	If for captive use the location of plant and industry	Most of the material is used for captive consumption only. We have Leased Pulverising Unit located at Tadipatri.
b)	For sale for indigenous consumption	Both
17	If for exports to foreign countries it is likely to be exported where the name is being setup on 100 % export oriented or tied up basis	If the material posses High quality, it intends to exports also.
a)		
b)	2. Whether minerals will be exported in raw form or after processing. Also indicate the state of prospecting whether Intermediate state or final state of the end product.	Both raw and processed
c)	If it is to be used within the country, indicate the industry/industries in which it would be used. Whether it will be supplied in raw fork or after processing.	Paper, Paints, Soaps, Rubber, ceramics and Insecticides.
18 a)	Financial resources of the applicant	
b)	Anticipated yearly financial investments during the course of quarry construction and aggregate investment up to the state of commencement of commercial production.	Yearly 25 to 30 Lakhs
19	The application form should be accompanied by a statement of salient features of the scheme of quarrying. This should be generally on the lines of the project at a Glance given in a quarrying feasibility report including Features relating to protection of environment.	Mining Plan will be submitted later.

I / We do hereby declare that the particulars furnished above are correct and ready to furnish any other details including accurate plans and security deposit as may be required by you.

Place: Mutchukota,
Date: 08 - 11-2017

Yours faithfully,
B. Ramadevi
(B. Ramadevi),
Prop: Rama Minerals.

- Note:
1. If the application is signed by an authorized agent of the applicant, then the power of attorney should be attached.
 2. The application should relate to one compact area only, except when the application for quarrying lease.

Office of the Deputy Director
Minerals & Geology
APPLICATION FOR DIVERSION OF FOREST LAND
FOR NON-FOREST PURPOSE



FORM-A

(See Rule-6)

Form seeking prior approval under section-2 of forest
(conservation) act-1980.

2-1-17
91

FOR GRANT OF

QUARRY LEASE OVER AN EXTENT OF 2 HECTARES
IN COMPARTMENT NO. 594/P OF MUTCHUKOTA (R.F),
SINGANAMALA MANDAL, ANANTAPUR DISTRICT.

Project Proponent:

SRI B. RAMADEVI,

W/o: B. Sreekanth,

Prop: M/s: Rama Minerals,

1/35, Mutchukota Village,

Peddapappur Mandal-515445,

Anantapur District, Andhra Pradesh State.

(See Rule 6)

Form for seeking prior approval under section 2 of the proposals by the State Governments and other authorities



PART - I

(To be filled by the user agency)

1.	PROJECT DETAILS:	
(i)	Short narrative of the proposals and project scheme for which the Forest Land is required	Proposals for the grant of Quarry Lease of Steatite and other minerals over an extent of 2 Hectares in Comp. No. 594/P of Mutchukota Reserve Forest of Gooty Range of Anantapur Division, Anantapur District by B. RAMA DEVI, Proprietor of RAMA MINERALS.
(ii)	Maps showing the required Forest land, boundary of adjoining Forest on a 150000 scale map	Yes Enclosed
(iii)	Cost of the Project	Rs. 50.00 Lakhs.
(iv)	Justification for locating the project in forest area	The Steatite and Dolomite available in the applied area is of specific quality in the country as well as in the abroad and it will not be available anywhere in revenue lands except in reserve forest.
(v)	Cost Benefit analysis to be enclosed	Yes Enclosed
(vi)	Employment likely to be generated	Directly and indirectly 50 persons shall be employed in mining activity and other ancillary unit. Among them 50% are from SC/ST Community.
2.	Purpose wise break-up of the total land required	Quarrying Purpose : 1.5 Ha For Road and Others : 0.5 Ha <div style="border: 1px solid black; padding: 5px; display: inline-block;">TOTAL : 2.0 Ha</div>
3.	Details of displacement of people due to project if any	no

(i)	Number of Families	Nil
(ii)	Number of Scheduled Castes/Scheduled Tribe Families	Nil
(iii)	Rehabilitation plan (to be enclosed)	Does not arise
4.	Whether clearance under environment (protection) act 1986 required (Yes/No)	Yes
5.	Undertaking to bear the cost of raising and maintenance of compensatory aforestation and or penal compensatory aforestation.	Enclosed
(4)	Details of certificates/ Documents enclosed as required under the instructions	Yes, all relevant Documents/Certificates are enclosed to the renewal proposals.

Date: 08/11/2017

Signature: B. Ramadevi

Place: Mutchukota

Designation & Address of User Agency:

B. Ramadevi

B. RAMADEVI,

PROP: RAMA MINERALS,

1/35, Mutchukota Village,

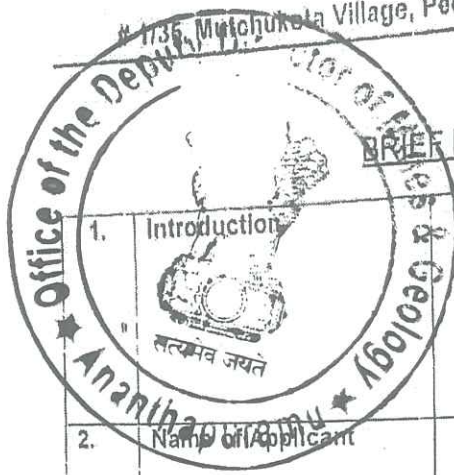
Peddapappur Mandal-515445.

Anantapur District, A.P. State.

RAMA MINERALS

1/35, Muchukota Village, Peddapappur Mandal, Anantapur District.

Date: 08/11/2017



BRIEF NOTE ON PROJECT

1. Introduction	This application is for conducting quarrying operations for Steatite and Dolomite in Comp. No. 594/P of Muchukota Reserve Forest of Gooty Range of Anantapur Division.
2. Name of Applicant	B. RAMA DEVI Proprietor of RAMA MINERALS
3. Material	This project is to mining a particular variety of Steatite and Dolomite which are uniquely available in the applied forest area and not available anywhere outside.
4. Quantity	It is estimated that on the whole there is about 50 Lakhs MTs of useful Steatite; Dolomite & Shale is available in the mining.
5. Operations	The project is for mining Steatite and Dolomite which is available below the ground level. The method of operation in the mine will be by using underground mining by employing manual labours for require and sorting and sizing of ore. The graded mineral will be loaded into the tippers for dispatch. The waste rock shall be loaded into the tipper and shall be disposed into the pre-determined dumping site.
6. Employment Potential	Quarry Lease of Steatite and Dolomite is very intensive. It requires lot of labour for operating compressors and holding drilling jacks. It is estimated that about 50 families will be benefited on this mining as direct employees.
7. Economic Benefits	Apart from the above 50 families which will benefit by direct and indirect employment.
8. Environmental Impact	Very less impact on the Environment will be there, as this project for mining steatite and Dolomite metal will be carried underground and disturbance of surface soil will be very minimal.

Date: Muchukota

Place: 08/11/2017.

Signature:

Designation & Address of User Agency:

B. Ramadevi

B. RAMADEVI,

PROP: RAMA MINERALS,

1/35 Muchukota Village,

Peddapappur Mandal-515445.

Anantapur District, A.P. State.

RAMA MINERALS

1/35, Muchukota (V),

Peddapappur (M),

Ananthapuramu (Dist) - 515 445.

ANDHRA PRADESH, INDIA.

IEC No.: 0916913198

PAN No.: APIPR2921L

☎: +91 9908620995 9440464566

37APIPR 2921 L12H

Sl. No.	Gist of information to be furnished	Reply
1	Certificate from the competent authority for Mining Department about non-availability of some mineral in non-forest land.	It is a rare material and not available in the non-forest lands in Ananthapuramu district. In this office jurisdiction, there are very few existing quarry lease for Quality Steatite & Dolomite in the non-forest land.
2	Areas may be proposed for mining. Quarrying is located adjoining the boundary of the forest instead of areas located inside the forest.	The present subject area lies at a distance of 3.6 Km from the forest boundary towards Julakulva Village.
3	Details of other mining leases for that particular mineral with their capacity and average annual production and projected future requirements. Mining plan approved by the competent authority also be submitted with the proposal.	There are 6 no Quarry Leases in Compartment No. 594, 595 & 596 of Muchukota RF Singanamala (M), Ananthapuramu District.
4	In case of renewal, the complete picture of mining activity in the particular forest block or compartment. The present status in S.I topo sheet on 1:50,000 scale to be furnished.	The guidelines issued actually in the case of renewals, but the user agency seeking proposals under section 2 of FC-Act, 1980 a fresh and not renewal. Therefore It is not applicable to the present applicant M/s Rama Minerals, Prop:B. Rama Devl.
5	In respect of open cast mining necessary precautions regarding waste management outside the mine in non forest land be identified. To take care this issue while sending proposals pertaining to open cast mining including granite quarrying pertaining to private agencies.	Not applicable - It is under ground mining method. The waste management plan will be shown in the mining plan.
6	GoI has prescribed preparation of cluster proposal for such leases which have contiguous boundaries. For transporting mined minerals, It is not desirable to insist inclusion of such forest area and the lease proposals unless a new road is proposed for such lease / cluster.	It is submitted that the cluster E.C. and other issues will be pursued by the user agency.
7	No mining proposals within the sanctuary, National Park and also within 10 KMs radius (Eco-sensitive zone) form the boundaries of National Parks and W.L Sanctuaries are processed as per the Hon'ble Supreme Court orders and guidelines issued by the MoEF & CC., GoI. Therefore, not to forward any such proposal for mining activities which are falling within the protected areas.	It is submitted that the National Park / Wild life sanctuary / ECO-sensitive zone are not arise in Muchukota R.F. Hence this point does not arise for the proposed quarrying area. If any, the forest department will be mention.
8	While selecting / recommending the proposals for mining activity under FCA, the provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 (GoI) may be strictly adhered.	It is informed that previously, the Steatite & Dolomite minerals were under Major mineral. Recently the MM (D&R) Act, 1957 was amended vide MM (D&R) Act, 2015, under G.O Ms. No. 34 I & C (M.II) Dept., dt: 14.03.2016. Hence, the minerals Steatite & Dolomite comes under 31 newly declared Minor Minerals.


 Asst. Director of Mines and Geology
 Tadipatri, Ananthapuramu Dist.

INSPECTION REPORT

Inspection Report of Quarry Lease application for Steatite and Dolomite Over an Extent of 2,000 Hectors In Mutchukota R.F Compartment No 594/p of Julakaluva Village, Singanamala (M) Ananthapuramu District. Application filed by M/s Rama Minerals, Prop: B. Rama Devi.

We have proceeded to inspect the Grant of quarry lease applied area on 15.11.2017 along with the applicant. In connection with the Inspection of the area applied by M/s Rama Minerals, Prop: B. Rama Devi for Grant of Quarry Lease for Steatite and Dolomite Over an Extent of 2,000 Hectares In Mutchukota R.F Compartment No 594/p of Julakaluva Village, Singanamala (M) Ananthapuramu District. On the day of Inspection the applicant has shown the applied area on the ground and location, accessibility and geology of the applied area are shown below.

Location and Approachability:

The applied area falls In survey of India Toposheet No:57F/13 in 1:50,000 scale and the applied area is situated at an aerial distance of 3.5 KM towards NW of Mutchukota Village, and it can be approached by traveling from Tadipatri to Mutchukota Forest on the Tadipatri-Ananthapuramu B.T. road up to a distance of about 18 km from there by taking right diversion towards North direction on a cart track at a distance of 3.6 KM can be leads to the applied area. The nearest railway station is Tadipatri and is well connected to all major ports by rail and road.

Topography:

The subject area is applied for grant of quarry lease almost hill area with height 45 to 50 Mts from the ground Level. There is no perennial water source in and around the applied area and the area covered with small bushes, and there are rock formations of Dolomite Mineral exposures present in the applied area

Geology:

Geologically the area falls on the Western part of Cuddapah basin the area is part of Cuddapah Basin with dendrytic pattern the applied area belongs to Vempalli formations of Papagni Group of Cuddapah Super Group. Dolomites, limestones, Shales, and Quartzites are main rocks in the Vempalli formations. The Papagni series formations succession is as follows.

-----Unconfirmity-----

Vempalli formation-

Dolomites,

Papagni Series

Limestones, Shales & Igneous

Intrusives & quartzites

-----Unconfirmity-----

Local Geology of the area:

The local geology is revealed from the (6) existing Quarry leases located at Mutchukota Forest area at a distance of within 2km in the south western direction of the applied area, the rocks types come across in the subject area the soil cover with sill, dolomite dykes and as per the observations in the existing leases near to the applied area, the formation is in alternative bedded formation, the beds are striking almost North-South direction due East with 8° to 10° at surface soil, sill and weathered shale and Dolomite are overlapping the mineral beds with full exposures, therefore everywhere Dolomite and soil is seen in the area. The sequences of mineral placement is given with reference to existing pit at western side of the area which followed vertically downwards with following sequences of bedding formation.

Bedded formation	Thickens range
Soil, Weathered Shale and Dolomite cover (Top layer)	1 to 15 (at some places it leads to less than 10 mt mixed with sill)
Shale	15 to 16 mt
Dolomite	16 to 18.5 mt
Steatite	18.5 to 20 mt (Intermittent multiple thin beds of 0.5 to 0.7 m thickens)
Shale	20 to 20.5 mt
Dolomite	20.5 to 24.5 mt
Shale	24.5 to 25.5 mt
Dolomite	25.5 to 35.5 mt
Steatite	35.5 to 36.5 mt (Intermittent multiple thin beds of 0.6 to 0.8 m thickens)

The colour of dolomite is cream and light black and Steatite is light white and brown in colour. The shale beds are intercalated with dolomite beds, and light dull white in colour, soft fragile in material which become powder when crumpled between the fingers.

The Dolomite and Steatite occurring within the applied area is useful mainly in steel industry, Paper industry, textile industry etc.

OTHER INFORMATION:

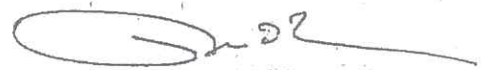
It is submitted that, as per this office records there are (6) Quarry leases are existing South-West of the present applied area at a distance within 2 km which are 1). Sri Sai Minerals 2). Narusu & Co 3). Bramarambha Mineral company 4). Srinivas Mineral company 5). Nagalingeswara Mines and Minerals and 6) South India Mineral company. And the present applied area is not overlapped with the any existing quarry leased area, and there are no any pending applications in the present applied area.

Further the applicant has submitted an affidavit stating that he has not having any mineral revenue dues to the Government as on date, and he has not having any other Q.L./M.L/P.L. In the State of Andhra Pradesh.

Further it is submitted that It is rare material and very few existing quarry lease for Quality Steatite & Dolomite are available In the non-forest lands In Ananthapuramu district. The proposed area is prospective for quality Steatite and Dolomite.

RECOMMENDATIONS:

In view of the above circumstances, as per the Go.MS No.107 Industries and Commerce Department Dt: 30.07.2016 the Technical observations the applied area for Grant of Quarry Lease in favor of M/s Rama Minerals Prop: B. Rama Devi for Grant of Quarry Lease for Steatite and Dolomite Over an Extent of 2.000 Hectares In Comp. No. 594/p of Mutchukota R.F Julakalava (V), Singanamala (M) Ananthapuramu District. for the period of 20 years may be submitted to the Director of Mines and Geology subject to the satisfaction of APPMMC Rules 1966, Forest Conservation Act 1980 and other terms and conditions of the Government issued instructions from time to time.



(P.VENKATESWARA REDDY)

Asst. Director

O/o Asst. Director of Mines and Geology,
Tadipatri.

SUBMISSION OF QUARRY LEASE PROPOSALS TO THE DIRECTOR OF MINES AND GEOLOGY, IBRAHIMPATNAM, VIJAYAWADA ON THE APPLICATION FILED BY M/s RAMA MINERALS, PROP. B. RAMA DEVI FOR STEATITE AND DOLOMITE OVER AN EXTENT OF 2,000 HECTARES IN MUTCHUKOTA R.F COMP.NO 594/P OF MUTCHUKOTA R.F, JULAKALUYA VILLAGE, SINGANAMALA MANDAL, ANANTHAPURAM DISTRICT.

Introduction:

It is submitted that M/s Rama Minerals Prop. B. Rama Devi has filed an application for grant of quarry lease for Steatite and Dolomite over an extent of 2,000 Hectares in Mutchukota R.F Compartment No 594/p of Mutchukota Village, Singanamala Mandal, Ananthapuramu District for a period of 20 years, the lessee has applied Quarry application through Mee-Seva Online on 09.11.2017 with the following enclosures.

1. Application Form-'P' in 9 Sets.
2. Challan No.13774, dated:08.11.2017, Rs.12,500/- paid in S.T.O, S.B.I., Tadipatri, towards application fee & Survey Charges.
3. Challan No. 13779, dt: 08.11.2017, Rs. 50,000/- paid in S.B.I, Tadipatri, Towards deposit amount
4. Affidavit in lieu of M.R.C.C & I.T.C.C.
5. Location Sketch of the applied area.
7. Xerox copies of Adhar Card & Pan Card.

In this connection the Assistant Director of Mines and Geology this office has inspected the applied area in presence of the applicant on 15.11.2017 and submitted their report.

Location and Approachability:

The applied area falls in survey of India Toposheet No:57F/13 in 1:50,000 scale and the applied area is situated at an aerial distance of 3.5 KM towards NW of Mutchukota Village, and it can be approached by traveling from Tadipatri to Mutchukota Forest on the Tadipatri-Ananthapuramu B.T. road up to a distance of about 18 km from there by taking right diversion towards North direction on a cart track at a distance of 3.6 KM can be leads to the applied area. The nearest railway station is Tadipatri and is well connected to all major ports by rail and road.

Topography:

The subject area is applied for grant of quarry lease almost hill area with height 45 to 50 Mts from the ground Level. There is no perennial water source in and around the applied area and the area covered with small bushes and there are rock formations of Dolomite Mineral exposures present in the applied area

Geology:

Geologically the area falls on the Western part of Cuddapah basin the area is part of Cuddapah Basin with dendrytic pattern the applied area belongs

to vempalli formations of Papagni Group of Cuddapah Super Group. Dolomites, limestones, Shales, and Quartzites are main rocks in the Vempalli formations. The Papagni series formations succession is as follows.



-----Unconformity-----

Vempalli formation-

Dolomites,

Limestones, Shales & Igneous

Intrusives & quartzites

-----Unconformity-----

Local Geology of the area:

The local geology is revealed from the (6) existing Quarry leases located at Mutchukota Forest area at a distance of within 2km in the South western direction of the applied area, the rocks types come across in the subject area the soil cover with sill (dolerite dyke) and as per the observations in the existing leases near to the applied area, the formation is in alternative bedded formation, the beds are striking almost North- South direction due East with 8° to 10° . at surface soil, sill and weathered shale and Dolomite are overlapping the mineral beds with full exposures, therefore everywhere Dolomite and soil is seen in the area. The sequences of mineral placement is given with reference to existing pit at western side of the area which followed vertically downwards with following sequences of bedding formation.

Bedded formation	Thickens range
Soil, Weathered Shale and Dolomite cover (Top layer)	1 to 15 (at some places it leads to less than 10 mt mixed with sill)
Shale	15 to 16 mt
Dolomite	16 to 18.5 mt
Steatite	18.5 to 20 mt (intermittent multiple thin beds of 0.5 to 0.7 m thickens)
Shale	20 to 20.5 mt
Dolomite	20.5 to 24.5 mt
Shale	24.5 to 25.5 mt
Dolomite	25.5 to 35.5 mt
Steatite	35.5 to 36.5 mt (intermittent multiple thin beds of 0.6 to 0.8 m thickens)

The colour of dolomite is cream and light black and Steatite is light white and brown in colour. The shale beds are intercalated with dolomite beds, and light dull white in colour, soft fragile in material which become powder when crumpled between the fingers.

The Steatite and Dolomite occurring within the applied area is useful mainly in steel industry, Paper industry, textile industry etc. The dolomite may be supplied mainly to M/s Jindal steel Industries at Bellary, Satavahana Ispat Limited near Bommanahalli, Garuda steel plant at Tadipatri and number of sponge iron plants in and around Bellary town of Karnataka state. The steatite finds application in many industries salient amongst them are paints, pigments, ceramics and cosmetics.

OTHER INFORMATION:

It is submitted that, as per this office records there are (6) Quarry leases are existing South-West of the present applied area at a distance within 2 km which are 1). Sri sal Minerals 2). Narayana & Co 3). Bramarambha Mineral company 4). Srinivas Mineral company 5). Nagalingeswara Mines and Minerals and 6) South India Mineral company. And the present applied area is not overlapped with the any existing quarry leased area, and there are no any pending applications in the present applied area.

Further it is submitted that it is a rare material and very few existing quarry lease for Quality Steatite & Dolomite are available in the non-forest lands in Ananthapuramu district. The proposed area is prospective for quality Steatite and Dolomite.

Further the applicant has submitted an affidavit stating that he has not having any mineral revenue dues to the Government as on date, and he has not having any other Q.L./M.L./P.L. in the State of A.P.

RECOMMENDATIONS:

In view of the above circumstances, the applicant has filed application on 09.11.2017 for Grant of Quarry Lease in the name of M/s Rama Minerals, Prop: B. Rama Devi for Grant of Quarry Lease for Steatite and Dolomite over an Extent of 2.000 Hectares in Mutchukota R.F Compartment No 594/p of Julakaluva Village, Singanamala (M) Ananthapuramu District for the period of 20 years may be submitted to the Director of Mines and Geology, as per the Go.MS No.107 Industries and Commerce (Mines-II) Department Dt: 30.07.201 with the Technical observations of the applied area and subject to the satisfaction of APPMMC Rules 1966, Forest Conservation Act 1980 and other terms and conditions of the Government Issued instructions from time to time.

The entire records of enquiry containing 1 to ____ N.F. + 01 to ____ C.F. is here with submitted to the DM&G, Vijayawada for taking further necessary action in the matter.

Encl: 9 sets of Statutory Forms


ADM&G
Tadipatri


21/11/17

DM&G
Vijayawada

From
Sri Y. Nagalan, A.Sc.,
Asst. Director of Mines & Geology,
Tadipatri.

To
The Deputy Director of
Mines and Geology,
Ananthapuramu



Sir,

Sub: Mines & Minerals - Lease application filed by M/s Rama Minerals, Proptx: Smt. B. Rama Devi for Dolomite & Steatite over an extent of 2.030 Hects in Sy. No: 300/1 of Julakalva (V), Singanamala (M) falling in compartment No: 594/P of Muchukota R.F. of Gooty Range of Ananthapuramu District - Instructions issued - Survey & Inspection conducted on 25-01-2022 - Report along with the Sketch submitted - Regarding.

- Ref:** 1) Letter No: 67/G/2019, dt: 18-01-2022 of Deputy Director of Mines and Geology, Ananthapuramu addressed to the District Forest Officer, Ananthapuramu and copy marked to this office.
2) Inspection report submitted by the Royalty Inspector of this office on 05.03.2022.
3) Plan showing the surveyed area of M/s Rama Minerals submitted by the Surveyor of this office dt: 26-03-2022.

* * * * *

I invite kind attention to the subject and references cited and submit that the Deputy Director of Mines and Geology, Ananthapuramu vide reference 1st cited while addressing letter to the District Forest Officer, Ananthapuramu for according permission to allow the Tech. Staff of O/o the Asst. Director of Mines & Geology, Tadipatri for issuance of further Instructions to the concerned officers of their department to support during the inspection on 25-01-2022 over the subject area has marked a copy of the same to this office with a direction to depute surveyor and technical staff to conduct survey and inspection in the proposed area duly coordinating with the local forest department.

In this connection, I submit that the Royalty Inspector along with this office Surveyor have inspected the subject applied area of M/s Rama Minerals on 25-01-2022 and this office Surveyor has verified the boundaries of the applied area in accordance with the geo-coordinates furnished in the sketch issued and signed by the District Forest Officer, Ananthapuramu which was submitted by the applicant firm.


Further reported that during the day of inspection they have noticed that there are some other working leases and old working pits existed around the present applied area with the strike of North South direction and dipping towards East. As per the existing pit cross section of the area, in the Steatite mineralized area the dolomitic limestone is highly weathered and alternate beds of shale and dolomitic limestone are exposed where as in non Steatite mineralized zone, the dolomitic limestone is massive and shows no signs of any alternation. Generally the dolomitic limestone subjected to metamorphism and altered into steatite and shale and also reported that in the applied area they have observed 3 old working pits which have been totally enfolded with thick vegetation, bushes in the form of groves and soil precipitation.

Accordingly inspection report and sketch showing the surveyed area of M/a Rama Minerals for the aforesaid area mentioned in the subject cited have been submitted to this office for reference.

In view of the above, I am herewith enclosing copies of inspection report and surveyed sketch as reported vide reference 2nd & 3rd cited for kind perusal and for taking further necessary action in the matter.
सत्यमेव जयते

Encl: As above

Yours faithfully,


Asst. Director of Mines & Geology,
Tadipatri

Copy submitted to the Director of Mines and Geology, Ibrahimpatnam for favour of information.

From
Sri N. Prateep Kumar, IFS,
Prl. Chief Conservator of Forests & Head of
Forest Force,
Anandhra Pradesh,
Guntur - 522 004



To
The Director of Mines &
Geology,
5th & 6th Floors,
Anjaneya Towers,
Ibrahimpattam, Krishna District.

** ** *

Ref. no. EFS02-15029/8/2018-FCA SEC-/FCA-1(ii), Dated:11/03/2022.

Sir,

Sub: APFD - F (C) Act, 1980 - Diversion of 2.03 ha of forest land falling in
- Compartment no.594, Mutchukota RF, Gooty Range, Ananthapuramu
Division for grant of quarry lease for Steatite and Dolomite in favour
of the Proprietor, M/s. Rama Minerals, Tadipatri,
Ananthapuramu District - Instructions - Reg.

Ref: Director of Mines and Geology, A.P, Ibrahimpattam, Lr.no.31281/R4-
1/2017, Dt.12.03.2018.

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With reference to the letter cited, it is requested to recall the discussions held during video conference on 08.07.2021 with Gol, MoEF&CC, New Delhi on the issue of approved mining plan. The Government of India, MoEF&CC, New Delhi issued instructions to furnish the approved mining plan at the initial stage itself i.e., at the time of processing the proposal for Stage-I approval.

The authenticated DGPS surveyed sketch of the proposed forest area with geo-coordinates duly indicating land use plan for mining, safety zone, approach road in respect of the subject proposal is sent herewith. Necessary instructions are being issued to the User Agency to furnish draft mining plan based on the above precise area arrived after conducting DGPS survey, to the Director of Mines and Geology, A.P, Ibrahimpattam for necessary action. The Director of Mines and Geology, A.P, Ibrahimpattam / the representative authorized by him, may approach the Divisional Forest Officer, Ananthapuramu for entry into forest and inspect the precise forest area proposed for mining purpose.

Yours faithfully,

N Prateep Kumar IFS

Prl.Chief Conservator of Forests &
Head of Forest Force

Encl:- As above.

Copy to Smt.B.Ramadevi (Proprietor), M/s. Rama Minerals, B7, #16/819/2/1, Nandalapadu, Tadipatri Town, Ananthapuramu- 515411 and she is requested to furnish draft mining plan to the DMG, A.P, Ibrahimpattam for taking necessary action as per Forest Conservation Rules, 2003 and the guidelines issued under the Forest (Conservation) Act, 1980.

Copy to the Chief Conservator of Forests, Ananthapuramu Circle, Ananthapuramu for information.



Copy to the Divisional Forest Officer, Ananthapuramu for information and he is requested to give a representative of Mining Department authorized by DMG, AP and also the Agency for inspection of precise forest area proposed for mining purpose and following acts and rules in force.

GOVERNEMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY :: IBRAHIMPATNAM

Circular Memo No. 3861432/P/2020

Dated: 16.07.2021.

Sub: Mining - Granting of Mining Leases/Prospecting
Licenses - Quarry Leases in Forest Lands - Instructions Issued -
Regarding

- Ref: 1. Memo. No. 3778/For (1)/20001-1, Dt. 20.04.2001 from
Environment, Forest Science & Technology (For.1) Department.
2. Memo. No. 5624/For (1)/2005-2, Dt. 1.09.2005 from
Environment, Forest Science & Technology Department.
3. Circular Memo No. 10205/P1/2001, Dt. 29.05.2009. from Director
of Mines & Geology, Hyderabad.
4. Circular Memo No. 10205/P1/01, Dt. 16.09.2009. from Director of
Mines & Geology, Hyderabad.
5. Ref. No. EFS02-15029/94/2018-FCA-SEC-PCCF/FCA-, Dt. 13.07.2021.
from Principal Chief Conservator of Forest & Head of Forest Force,
Guntur.

The attention of the all Assistant Directors and Deputy Directors of Mines & Geology in the state are drawn to the subject and references cited. Through the reference 4th cited Director of Mines & Geology issued Guidelines for processing of ML/QL applications for clearances under forest Conservation Act 1980, to avoid legal complications in future.

In the reference 5th cited, the Principal Chief Conservator of Forest & Head of Forests, Andhra Pradesh stated that during the virtual meeting held with GoI, MoEF & CC, New Delhi on 08.07.2021 while receiving the proposals of the some of applications for which this office forwarded to PCCF for grant of Quarry lease in forest areas, they suggested the authenticated DGPS surveyed sketch of proposed forest area with Geo-coordinates duly indicating land use plan for mining, safety zone, approach road in respect of the four mining proposals, and necessary instruction are being issued to the above user Agencies to furnish the Draft Mining plan based on the above precise area arrived after conducting DGPS survey, to the Director of Mines & Geology, Andhra Pradesh., Ibrahimpatnam for necessary action. Further also informed that the DM&G, AP/the representative authorized by him, may approach the concerned Divisional Forest Officers for entry into Forests to inspect the precise forest area proposed for mining purpose, and finally requested to submit AMP of the said mining proposals as stated below:

1. Grant of quarry lease over an extent of 4.78 ha. Of forest land in compartment no.127, Kondaveedu RF, Ameenabad beat, Perecherla (V), Medikondur Mandal, Guntur for Road Metal & Building Stone in favour of Kunambrahmananda Redd, Ongole, Prakasam District.
2. Grant of quarry lease over an extent of 4.49 ha. Of forest land in compartment no.127, Kondaveedu RF, Ameenabad beat, Perecherla(V), Medikondur Mandal, Guntur for Road Metal & Building Stone in favour of Sri Dar Appa Rao, West Godavari District.
3. Diversion of forest land over an extent of 4.72 ha. In compartment no.450 of Yerrakonda R, Tummagunta Village, Kanigiri Mandal, Prakasam District for excavation of Quartz in favour of M/s AhobilaNarasimha Minerals.

4. Diversion of 4.90 ha. Of forest land falling in compartment no.205 of Ragimanupenta RF, Banagarupalyam (M), Chittoor (West) Division in f/o M/s Prathima Granites for grant of quarry lease for Black Granite.

In this connection it is to inform that, as per the existing provisions laid down under M.C. Rules 1966 the AMP shall allowed only after issue of Notice (LOA) to the applicant. But as per the present instructions received from the PCCF vide reference 5th cited, in the cases, where the M.C. Applications are in forest area, the proposal shall submit along with AMP and follow the instructions issued in the references 3rd & 4th cited.

Therefore the ADM&G's and DDM&G's in the state are directed while processing mineral concession applications falling in the forest area, proposals shall submit to the DM&G along with the AMP and strictly adhering the instructions issued earlier and approach with the concerned DFO to process the Mineral concession applications as the procedure intimated by the PCCF if necessary.

Further the DDM&G's in the state are directed to consider the AMP for approval of the forest area applications in advance without issuing of Notice to the applicants requesting to submit AMP, EC & CFE.

Encl: References as stated above

Sd/- V.G.Venkata Reddy
Director of Mines & Geology

To

The all ADM&G's (Regular) in the State.

The all DDM&G's in the State.

Copy to the Section Superintendents from D1 to D13 / In- charge officers of sections Sand, Vigilence, IT, MR, MERIT,

Copy to DM&G pashi.

Copy submitted to the Principal Chief Conservator of Forest & Head of Forest Force, Aranya Bhavan, Andhra Pradesh, K.M. Munshi Road, Guntur-522004, with a request to issue suitable instructions to DFO's in the State for allow if the Mines & Geology Officials and user Agencies to inspect and preparing of AMP in the forest areas.

//Attested//

G. Senthil Baby.
Assistant Director of Mines & Geology

Circular Memo No. 10205/P1/2001, dated: 29-05-2009.

Sub:- Mines and Minerals - Granting of Mining Leases/Prospecting Licence/ Quarry Leases in Forest Lands - G.O. Mines issued - Reg.

- Ref:-
1. Govt. Memo No. 5624 (MOR.I(1)/2005-2, EFST Dept., Dt. 01-09-05.
 2. Circular Memo No. 3326/R7-2/08, Dated 17-09-2008.
 3. D.O. Letter No. 10205/P1/2001, dated: -05-2009 to the Principal Chief Conservator of Forests, Government of Andhra Pradesh, Hyderabad.

The attention of the all the Asst. Directors of Mines & Geology/Deputy Directors of Mines & Geology/Zonal Joint Directors of Mines & Geology in the State is drawn to the subject and reference 1st cited, wherein the Government issued instructions regarding processing of the applications received for grant of mining lease/prospecting Licence/Quarry Leases in Forest Lands. As per the instructions, the Principal Chief Conservator of Forests, Hyderabad has to process such of those applications for clearance under Forest Conservation Act, 1980 which are received with proper technical observations through the Mines and Geology Department. It is also mentioned in the instructions that mere forwarding of any mining lease applications by the Mines and Geology Department does not confer any right to the applicant for grant of mining lease/prospecting license/ quarry lease as the process involves statutory procedure prescribed under Forest Conservation Act, 1980.

In this regard through reference 2nd cited instructions have been issued on the procedure to be followed by the Assistant Directors of Mines & Geology. However, for further clarity it is informed that the powers to grant leases have been vested with different authorities in the State. As far as minor minerals are concerned, except granite useful for cutting & polishing, the granting authority is the Regional Deputy Director of Mines & Geology. In respect of granite useful for cutting & polishing, the Director of Mines & Geology is the granting authority. In respect of all major minerals, the Government is the granting authority.

Further, the grant of leases is subject to various provisions contained in the Andhra Pradesh Minor Mineral Concession Rules, 1966 in respect of minor minerals and Mineral Concession Rules, 1966 in respect of major minerals. According to the said procedures at times first-cum-first-serve will be adopted and at times meritorious applications have to be considered overlooking the priority. Therefore, once granting authority decides in principle about the grant of lease depending upon various provisions of the rules, then the statutory formats shall have to be forwarded by the said authority to the Forest Department for consideration to issue clearance under Forest Conservation Act, 1980. This avoids entertaining applications from ineligible applicants for grant of leases with the Department of Mines & Geology.

Keeping in view of all these factors through reference 3 cited, the Principal Chief Conservator of Forests, Hyderabad has been requested to issue suitable instructions to the District Forest Officers not to entertain any proposals received from any officers or user agencies directly other than the competent granting authority and in such cases they may be advised to get the proposals forward through the competent granting authority.

In view of the above, all the Asst. Directors of Mines & Geology/Deputy Directors of Mines & Geology/Zonal Joint Directors of Mines & Geology in the State are directed to follow these guidelines scrupulously without any deviation. Further, all the Asst. Directors of Mines & Geology are requested to call back any proposals submitted by them directly to the Forest Department requesting to return the same without processing so as to avoid any legal complications in future.

The receipt of memo may be acknowledged by return post.

Sd/- V.D. RAJA GOPAL
DIRECTOR OF MINES AND GEOLOGY

// Attested //

For Director of Mines and Geology

To: 1
All the Asst. Directors of Mines and Geology in State for necessary action.
All the Deputy Directors of Mines and Geology in the State for necessary action.
All the Zonal Joint Directors of Mines & Geology in the State for information.
Copy to all officers in the Head Office.
Copy to all Sections in the Head Office.
Copy to "P" Section for Stock File.

GOVERNMENT OF ANDHRA PRADESH
ENVIRONMENT, FOREST SCIENCE & TECHNOLOGY (FOR-1) DEPARTMENT.

Memo No. 3/78/For(1)20001-1, date: 20/04/2001

Sub: Minor Minerals in quarry leases for state stone hold adjacent to the P.F. and sanction of quarry leases without consulting the D.F.O. Cancellation of quarry lease - Report - Regarding.
Ref: From the P.F. Hyd.Lr No 52627/200/F.2, dt:9/4/2001.

The attention of the Director, Mines and geology is invited to the reference cited. He is informed that the Principal Chief Conservator of Forests in his letter to the Reserve Forest without obtaining the No Objection Certificate from the Forest Department before granting mining leases as required under A.P. Board of Revenue standing Order No 35 (III) resulting in illicit quarrying in Reserve Forest and violation of the provisions of Forest (Conservation) Act.

2. Hence the Director, Mines and Geology is requested to issue suitable instructions to the concerned not to issue mining lease in forest areas and also adjacent areas without consulting the concerned forest officials as once the lease is granted by Mining Department without consulting the Forest Department it is very difficult to cancel the lease and in several cases the parties are approaching the Hon'ble High Court the matter is getting complicated.

Sd/- G. MADHUKAR RAJ
SPECIAL SECRETARY TO GOVERNMENT

// True copy //

Government of Andhra Pradesh
Forest Department

PCCF's ENdt. No.52627/2000-F.2
Dated: 15-05-2001

Office of the Prl. Chief Conservator of Forests,
Arabya Bhavan, A.P., Hyderabad
Sri.K. Subba Rao, IFS,
Prl. Chief Conservator of Forests

Communicated for information and taking necessary action. The Conservator of Forests are also requested to communicate the above G.M. to all their D.F.O's with a request to brought the above instructions to the notice of Assistant Director of Mines & Geology of the District and other concerned officials.

Sd/- K.R.V. Rao,
For Principal Chief Conservator of Forests

To
All the Conservator of Forests (Territorial)
Copy to the Director of Mines & Geology, Andhra Pradesh, Hyderabad with a request to issue suitable instructions to all the A.D..M.G's.
Copy to Stock file/Spans.5.

// True Copy //

Sd./x x x x,
Divisional Forest Officer, Mahabubnagar.

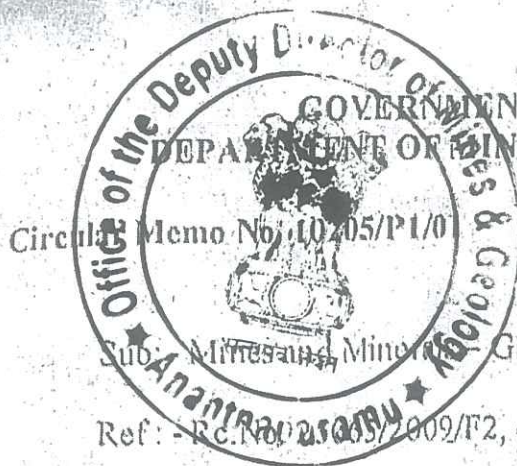
Endorsment File No: 687/P1/09, dt. 27.01.2009.

Copy Communicated to all ADMG's/ ADMG's (Vig)/ DDMG's/ ZJDMG's/ JDMG's(H/O) for taking further necessary action in the matter.

Sd/- G.Madhukar
for Director of Mines & Geology

// F.C.F.O //

Superintendent



GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY:: HYDERABAD

Dated 16.09.2009

Sub: Mines and Minerals - Granting of ML/PL/QL IN forest lands - Reg.
Ref: - Ec.No. 2005/2009/T2, dt.23.07.2009. From PCCF, Hyderabad.

The attention of all the ADMGs/DDMGs/ ZJDMGs in the states drawn to the subject and reference cited wherein the PCCF, Hyderabad has informed about the Government directions of processing of ML/QL applications for clearances under Forest Conservation Act 1980.

The principal Chief Conservator of Forests, Hyderabad through the reference cited has requested the DMG to issue necessary directions to all the concerned field officers of Department of Mines and Geology not to forward any application for which they are not the competent granting authority. Further, while forwarding any application for grant of ML/QL over forest lands they may be advised specifically to mention that the application is being forwarded by them in the capacity as competent granting authority to avoid any further complications.

In view of the above, all the ADMGs / DDMGs / ZJDMGs in the state are directed to follow the above guidelines scrupulously without any deviation so as to avoid any legal complications in future.

The receipt of the memo may be acknowledged by return post.

Sd/- V.D. RAJA GOPAL,
DIRECTOR OF MINES AND GEOLOGY.

1/ E.C.T.B.O. /
SUPERINTENDENT.

To
All the ADMGs / DDMGs / ZJDMGs in the state for taking necessary action.
Copy to all officers and sections in Head Office.

GOVERNMENT OF ANDHRA PRADESH
ENVIRONMENT FORESTS SCIENCE AND TECHNOLOGY DEPARTMENT

MEMO NO. 5624/10R-1(1)/2005-2

DATED: 1-9-2005

Sub: Forest Department- Mines and Minerals- Applications for grant of Q.L / Mining lease in Forests- Processing of applications for grant of mining lease through Mines & Geology Department- Instructions--Issued.

Ref: From Industries & Commerce Department, D.O. Letter No. 12087/ Mines II(1) 2005-1, dated: 27-6-2005.



As per the guidelines of the Government of India the nodal officer of the Forest Department receives applications from the user agencies for diversion of forest lands for various purposes including mining operations. In this context the Industries and Commerce Department has reported that entertaining statutory proforma applications direct from the User Agency by the Forest Department may lead to complicating the process of Q.L/PL/Mining lease and prolong the process of disposal. This may also create legal complications for both the Departments including Government of India. They have further stated that on the top of this, securing forest clearance does not confer any right to claim for grant of Q.L/Mining lease etc. as the applications are to be examined taking into consideration the experience, financial capacity, technical knowledge and also priorities of Public Sector Undertakings if any. To avoid such complications, the Industries and Commerce Department have requested the EFS & T Department to issue necessary instructions in the matter.

After consideration of the issue Government hereby direct the Principal Chief Conservator of Forests, Hyderabad to process the Mining leases/ QL applications for clearance under Forest (Conservation) Act, 1980 after receiving the applications with technical observations through the Mines & Geology Department. However, mere forwarding of any mining lease application by the Mines & Geology Department does not confer any right to the applicant for grant of mining lease/QL as the process involves statutory procedure prescribed under F.(C). Act, 1980.

The Principal Chief Conservator of Forests, Hyderabad is requested to follow the above instructions and communicate the above orders to all concerned Conservators of Forests / Deputy Conservators of Forests.

T. CHATTERJEE,
PRINCIPAL SECRETARY TO GOVERNMENT.

To
The Principal Chief Conservator of Forests, Hyderabad,
The Industries & Commerce Department, Hyderabad,
The Director, Mines & Geology Department, Hyderabad.
SC:SP.

// FORWARDED :- BY ORDER //

SECTION OFFICER.



Government of India

Form GST REG-06

[See Rule 10(1)]

Registration Certificate

Registration Number : 37APIPR292111ZH

1.	Legal Name	BIKKALA RAMADEVI			
2.	Trade Name, if any	RAMA MINERALS			
3.	Constitution of Business	Proprietorship			
4.	Address of Principal Place of Business	73/A, NANDALAPADU VILLAGE, PAPPUR ROAD, Anantapur, Andhra Pradesh, 515411			
5.	Date of Liability	01/07/2017			
6.	Date of Validity	From	01/07/2017	To	Not Applicable
7.	Type of Registration	Regular			
8.	Particulars of Approving Authority	Andhra Pradesh Goods and Services Tax Act, 2017			
Signature					
Name		RAMANAIAH KOTHAIRIKI VENKATA			
Designation		Goods and Services Tax officer			
Jurisdictional Office		TADIPATRI(KADIRI)			
9. Date of issue of Certificate		10/06/2021			
Note: The registration certificate is required to be prominently displayed at all places of Business/Office(s) in the State.					

This is a system generated digitally signed Registration Certificate issued based on the approval of application granted on 10/06/2021 by the jurisdictional authority.



Details of Additional Places of Business(s)

GSTIN

Legal Name

Trade Name, if any

Total Number of Additional Places of Business(s) in the State

1

Sr. No.

Address

1

SY NO.172-C/2, PEDDA PAPPURU ROAD, PEDDA POLAMADA, Anantapur, Andhra Pradesh, 515411





GSTIN

Legal Name

Trade Name, if any

Details of Proprietor

1



BIKKALA RAMADEVI

PROPRIETOR

Andhra Pradesh



**CERTIFICATE OF REGISTRATION
AS QUALIFIED PERSON TO PREPARE MINING PLAN**

[Issued Under Rule 14(2) of Granite Conservation and Development Rules, 1999]

Sri M. Rama Subba Reddy, S/o. M. Narasimha Reddy, D.No: 4-8-193, Chavvasudhakar Reddy nagar, Bypass Road, Pulivendula, Y.S.R. District-516390. Whose photograph is affixed herein above, having given evidence of his qualification and experience is hereby granted recognition under Rule 14(3) of Granite Conservation & Development Rules, 1999 as Qualified Person to prepare Mining Plans/ Schemes under Rule 7(A)(ii) of AP Minor Mineral Concession Rules, 1966, under Rule 13 of Granite Conservation & Development Rules, 1999 & under Rule 13 of Marble Conservation and Development Rules, 2002.

Registration Number is :


RQP/DMG/AP/06/2022

This Recognition is valid for a period of 10 years with effect from 09.05.2022 and valid upto 08.05.2032.

This certificate will liable to be withdrawn/cancelled in the event of furnishing the wrong information /documents in the Mining Plan submitted by him.

Place: Ibrahimpattanam

Date : 09.05.2022


Director of Mines & Geology
Director of Mines & Geology
Department of Mines & Geology
Govt. of Andhra Pradesh
Ibrahimpattanam-521456



GEO-CHEM LABORATORIES PVT. LTD.
Geo-Chem House,
294, Shahid Bhagat Singh Road,
Fort, Mumbai 400001, India.
Tel: +91 22 66383838 Fax: +91 22 66383800
Email: mumbai@geochem.net.in
CIN: U74220MH1964PTC013022



No. BEL/JB/21-22/00062/1-2

Date: 15.02.22

CERTIFICATE OF ANALYSIS

1. PARTICULARS OF SAMPLE : Submitted
 - a) Nature of Sample : Dolomite.
 - b) Name of the Party : M/S RAMA MINERALS, TADIPATRI
 - c) Register No. : BEL/JB/21-22/ 00862/1-2
 - d) Date of Register : 12.02.22
 - e) Mark : Sample No.1 & 2
2. RESULTS OF ANALYSIS :

ANALYSIS ON SAMPLE DRIED AT 105°C

		Sample No.1	Sample No. 2
Calcium Oxide	CaO	31.10 %	32.50 %
Magnesium Oxide	MgO	21.58 %	22.15 %
Silica	SiO ₂	03.87 %	04.75 %
Alumina	Al ₂ O ₃	00.85 %	00.81 %
Ferric Oxide	Fe ₂ O ₃	0.15 %	0.13 %
Loss on ignition	LOI	41.08 %	42.15 %

FOR GEO-CHEM LABORATORIES PVT LTD

Authorized signatory

This inspection / testing has been performed to the best of our ability and our responsibility is limited to proven negligence. This certificate, which is issued on conditions stipulated overleaf, reflects our findings at the time and place of inspection / testing and does not relieve parties from their contractual obligations. Samples will be retained by us for a period of sixty days only, unless specific instructions to the contrary are received. Geo-Chem Laboratories Pvt. Ltd. is not responsible for the authenticity of photocopied or computer scanned reports / certificates.





International
Independent Inspection
&
Testing Company

GEO-CHEM LABORATORIES PVT. LTD.

Geo-Chem House,
294, Shahid Bhagat Singh Road,
Fort, Mumbai-400001, India.
Tel: +91 22 66383838 Fax: +91 22 66383800
Email: mumbai@geochem.net.in
CIN: U74220MH1964PTC013022

No. BEL/JB/21-22/000863/1-2

Date: 15.02.22

CERTIFICATE OF ANALYSIS

1. PARTICULARS OF SAMPLE : Submitted
 - a) Nature of Sample : **Steatite.**
 - b) Name of the Party : **M/S RAMA MINERALS, TADIPATRI**
 - c) Register No. : **BEL/JB/21-22/ 00863/1-2**
 - d) Date of Register : **12.02.22**
 - e) Mark : **Sample No.1 & 2**
2. RESULTS OF ANALYSIS :

ANALYSIS ON SAMPLE DRIED AT 105°C

		Sample No.1 (High Grade)	Sample No. 2 (High Grade)
Magnesium Oxide	MgO	26.11 %	24.15 %
Silica	SiO ₂	47.15 %	48.13 %
Alumina	Al ₂ O ₃	01.72 %	01.45 %
Ferric Oxide	Fe ₂ O ₃	0.10 %	0.11 %
Calcium Oxide	CaO	11.30 %	12.40 %
Loss on ignition	LOI	12.64 %	13.15 %
Brightness		78.15 %	75.45 %

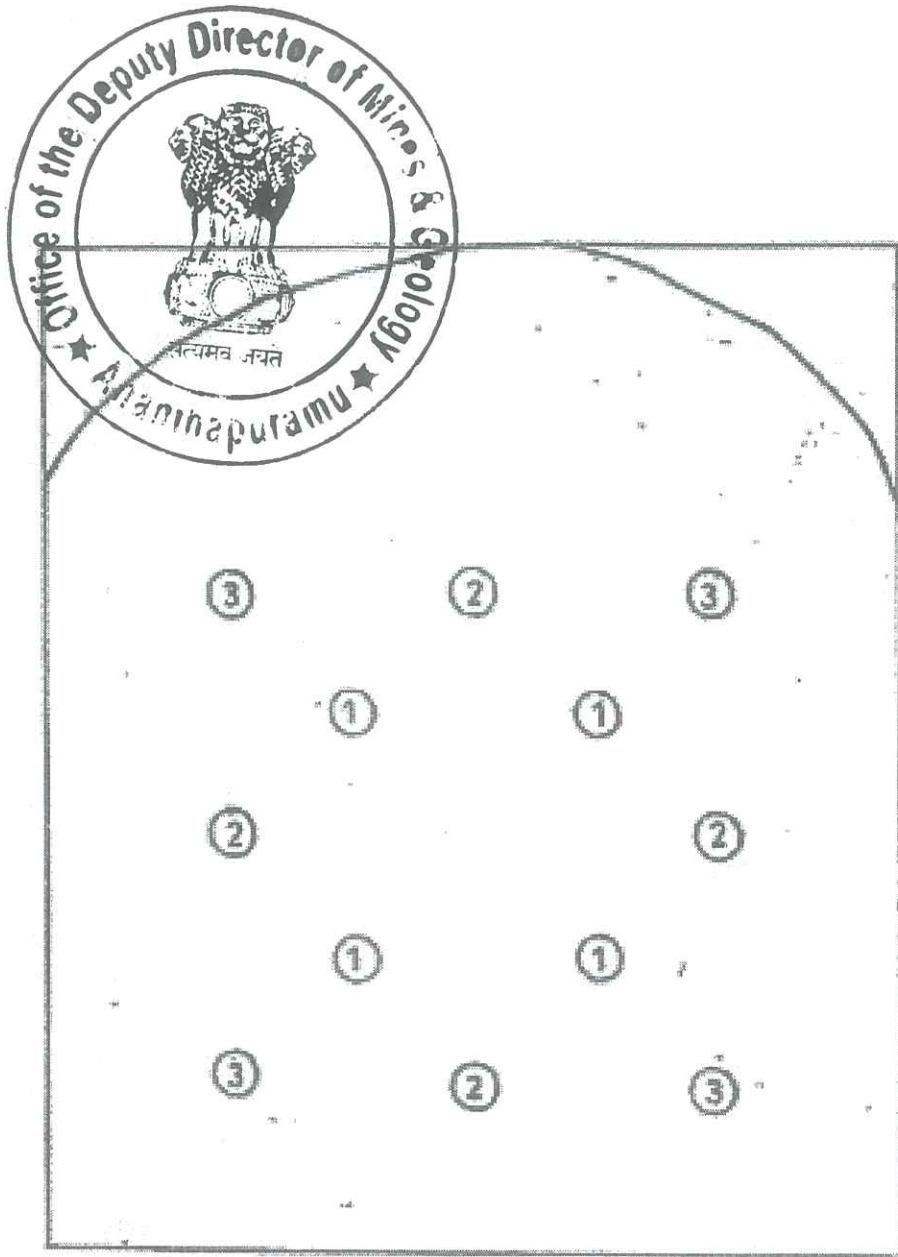
FOR GEO-CHEM LABORATORIES PVT LTD

Authorized signatory

This inspection / testing has been performed to the best of our ability and our responsibility is limited to proven negligence. This certificate, which is issued on conditions stipulated overleaf, reflects our findings at the time and place of inspection / testing and does not relieve parties from their contractual obligations. Samples will be retained by us for a period of thirty days only, unless specific instructions to the contrary are received.

Geo-Chem Laboratories Pvt. Ltd. is not responsible for the authenticity of photocopy or computer scanned reports / certificates.



SKETCH SHOWING WEDGE CUT DRILLING PATTERN

No. 1 CUT HOLES : 4 Nos

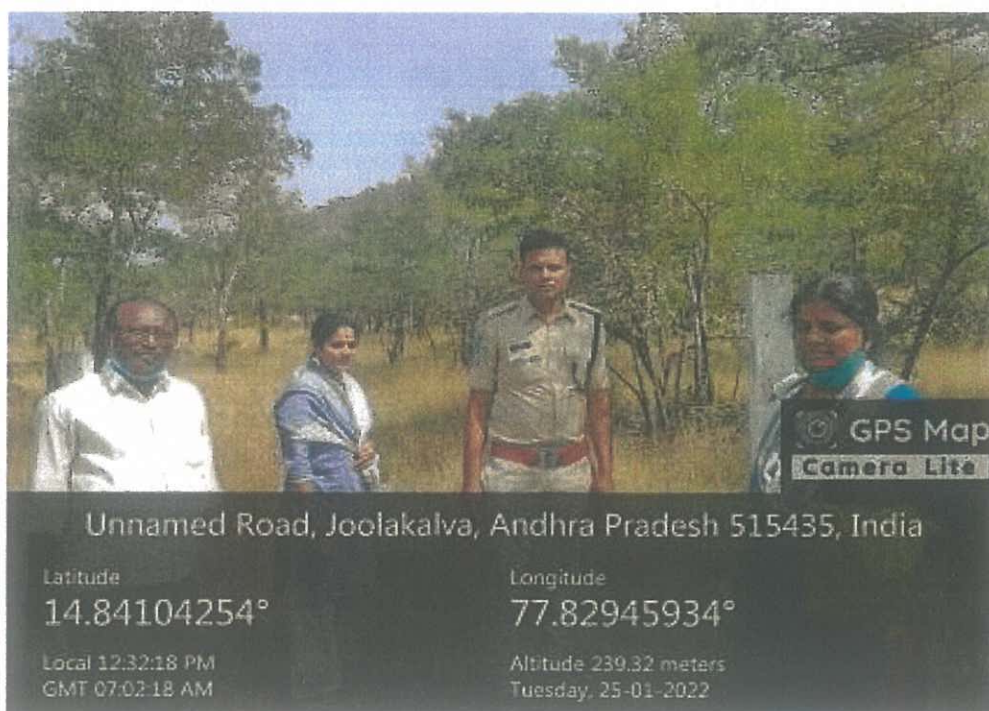
No. 2 EASERS : 4 Nos

No. 3 TRIMMERS : 4 Nos



MINE PHOTOGRAPHS

ANNEXURE-VII





GPS Map
Camera Lite

Unnamed Road, Joolakalva, Andhra Pradesh 515435,
India

Latitude
14.84102733°

Longitude
77.82943636°

Local 12:31:58 PM
GMT 07:01:58 AM

Altitude 239.4 meters
Tuesday, 25-01-2022



INDEX

- QL Applied Area
- 5km Circle
- Contours
- Roads
- Villages
- Nallah/Tanks/River
- Agricultural lands
- Forest Area
- Approach road

M. RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

Name of the Village	Distance in km (Aerial)	Population	Direction
Mutssukota	5.00	2300	NE
Maddalapalle	4.60	600	SW
Nayanipalle	5.00	750	SW
Jalalpuram	5.00	700	SW
Jalakalva	3.25	900	SW
Chillipalle	5.00	350	SW
Alangarpeta	3.45	350	NW
Korivipalle	5.00	580	NW

Tree density of the area is 0.02 to 0.025

S No	NAME	EASTING	NORTHING	ELEVATION	LATITUDE	LONGITUDE
1	M-1	804501.97507	1642650.72823	331.731	14.84085442	77.82929074
2	M-2	804544.478068	1642656.462912	333.954	14.84090134	77.82966634
3	M-3	804594.340340	1642661.921125	337.843	14.84094493	77.83014987
4	M-4	804735.972581	1642649.162321	349.227	14.84073262	77.83145172
5	M-5	804755.416395	1642637.114197	353.325	14.84070250	77.83164229
6	M-6	804782.933785	1642753.780093	398.308	14.84175287	77.83191147
7	M-7	804692.759994	1642753.727872	367.635	14.84176271	77.83107436
8	M-8	804636.763183	1642687.735520	242.901	14.84127574	77.83059723
9	M-9	804589.789359	1642676.229969	336.545	14.84107466	77.83010931
10	M-10	804513.734020	1642665.075785	332.106	14.84096263	77.82948194
11	M-11	804503.485244	1642660.587719	331.597	14.84094328	77.82939627
12	SP-1	804482.941113	1642641.824228	331.120	14.84077395	77.82938619
13	SP-2	804548.305735	1642649.014765	334.048	14.84083399	77.82959315
14	SP-3	804594.340340	1642654.391831	337.461	14.84087694	77.83014985
15	SP-4	804729.898720	1642632.705680	347.134	14.84066564	77.83140488
16	SP-5	804761.159651	1642638.814964	352.390	14.84062589	77.83169463
17	SP-6	804792.408412	1642761.388965	399.814	14.84181958	77.83220031
18	SP-7	804689.244877	1642761.216997	367.174	14.84183074	77.83104259
19	SP-8	804632.846185	1642694.661310	342.772	14.84123607	77.83052047
20	SP-9	804583.119135	1642683.842799	336.208	14.84114173	77.83018021
21	SP-10	804511.648500	1642673.311741	331.660	14.84104840	77.82983326
22	SP-11	804496.690235	1642665.801577	331.113	14.84099314	77.82924380

PLATE NO. 1

LOCATION CUM KEY PLAN

NAME OF THE MINE

RAMA MINERALS

QL AREA APPLIED FOR DOLOMITE & STEATITE IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE, ANANTHAPURAMU DIVISION OF JULAKALVA VILLAGE, SINGANMALA MANDAL, ANANTHAPURAMU DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER

M/S RAMA MINERALS,

Proprietor : **SMT. RAMA DEVI**

1/35, MUTCHUKOTA VILLAGE, PEDDAPPUR MANDAL -515445, ANANTHAPURAMU DIST.

EXTENT 2.03Hect | SCALE - 1:50000 R.F. | TOPO SHEET NO 57 F/12



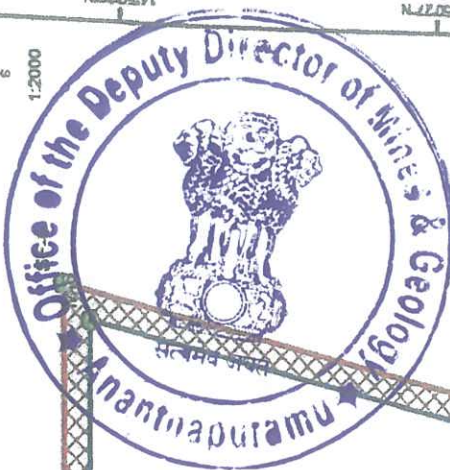
Smart Survey Solutions

PLOT No.7B, 6th CROSS, RIGHT SIDE
STR M.V.NAGAR, KAPPAGAL ROAD,
BELLARY Contact : 9483384423-27
E Mail : smartssali@gmail.com

B. Ramadurai
LESSEE

Map Showing the Diversion of Forest Land for Proposed Quarrying Lease Area for Dolomite and Steatite Compartment. No. 594 of Mutchukota R F, Gooty Range Ananthapuram Division, of Julakalva Village, Singanamala Mandal, Ananthapuramu District in favour of M/s Rama minerals, (Prop : Smt. Rama Devi).

APPROVED



S no	Name	Easting	Northing	Elevation	Latitude	Longitude
1	M-1	804501.937507	1642650.728283	331.731	14.84085442	77.82929074
2	M-2	804544.478068	1642656.462912	333.954	14.84090134	77.82966634
3	M-3	804594.340340	1642661.921125	337.043	14.84094493	77.83014987
4	M-4	804730.972981	1642640.162331	349.227	14.84073282	77.83141573
5	M-5	804755.416395	1642637.114197	353.325	14.84070250	77.83164229
6	M-6	804782.933785	1642753.780093	398.308	14.84175287	77.83191147
7	M-7	804692.759994	1642753.727872	367.635	14.84176271	77.83107434
8	M-8	804636.762183	1642687.735530	342.901	14.84117574	77.83055723
9	M-9	804589.769359	1642676.229969	336.545	14.84107466	77.83010931
10	M-10	804513.734020	1642665.075785	332.106	14.84098263	77.82940194
11	M-11	804503.485244	1642660.587719	331.597	14.84094328	77.82930627
12	SF-1	804492.941113	1642641.924229	331.120	14.84077595	77.82920619
13	SF-2	804545.305735	1642649.014765	334.048	14.84083399	77.82969315
14	SF-3	804594.347491	1642654.391831	337.461	14.84087694	77.83014905
15	SF-4	804729.898720	1642632.709680	347.134	14.84066564	77.83140488
16	SF-5	804761.159651	1642628.814964	352.390	14.84062689	77.83169463
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19	SF-8	804633.846185	1642694.661310	342.772	14.84123607	77.83052047
20	SF-9	804588.715935	1642683.642799	336.208	14.84114173	77.83010021
21	SF-10	804511.640400	1642672.331741	331.668	14.84104840	77.82938336
22	SF-11	804496.690235	1642665.801577	331.113	14.84099114	77.82924380



M. RAMASUBBA REDDY

RQP/DNG/AP/06/2022

S no	Name	Area(Ha)
1	Mining Area	1.48
2	Safety Zone Area	0.55
	Total Area	2.03

District Forest Officer
ANANTHAPURAMU.

Legend

- DGPS Points
- Mining Area
- Safety Zone Area

Ch. Deepu.
Forest Range Officer (GIS-III)
Off: Ptl. Chief Conservator of Forests (A.P.)
Aranya Bhavan, GUNTUR.

B. Ramadevi

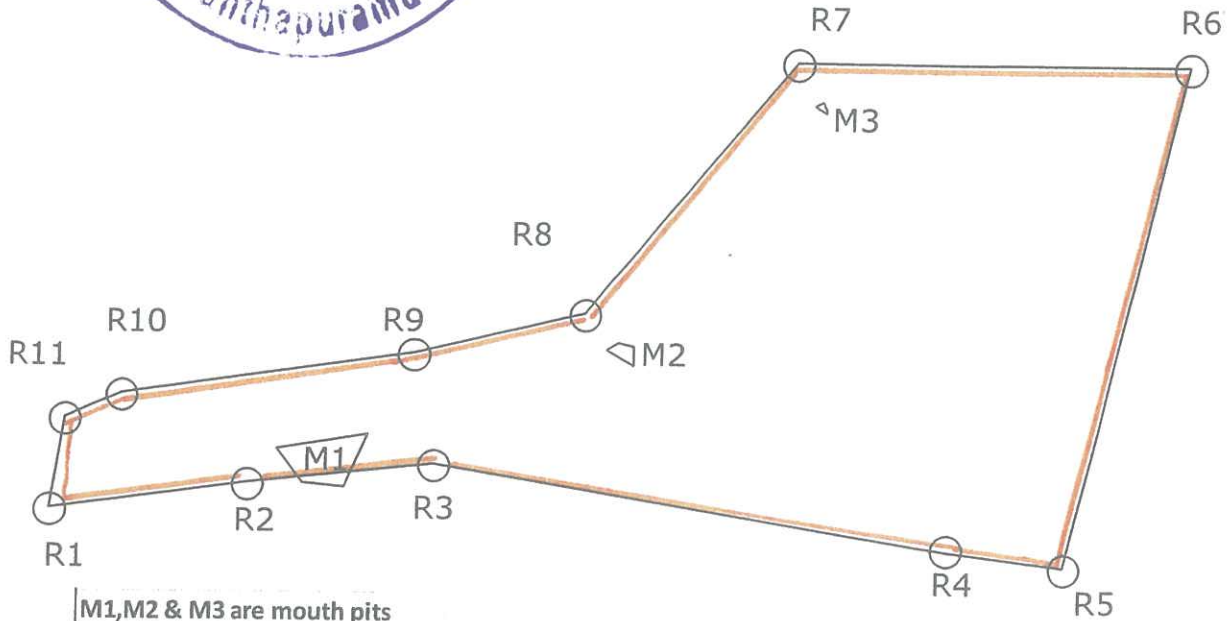
The DGPS/GNSS/ETS data is only verified, the absolute location of Points shall be verified by the concerned field officers.



Plan Showing the surveyed area of M/s Rama Minerals, Prop: Smt. Rama Devi for Dolomite & Steatite over an extent of 2.050 Hectares in Sy.No:300/1 of Julakalva (V), Singanamala (M) falling in S.No:594/P of Mutchukota R.F of Gooty Range, Ananthapuram Division of Julakalva(V), Singanamala(M), Ananthapuramu(D).



Scale 1:2000



M1, M2 & M3 are mouth pits

Datum WGS 84			
Point	Latitude	Longitude	Remarks
R1	N14.84078°	E77.82921°	Boundary Point
R2	N14.84083°	E77.82969°	Boundary Point
R3	N14.84088°	E77.83015°	Boundary Point
R4	N14.84067°	E77.83140°	Boundary Point
R5	N14.84063°	E77.83169°	Boundary Point
R6	N14.84182°	E77.83200°	Boundary Point
R7	N14.84183°	E77.83104°	Boundary Point
R8	N14.84124°	E77.83052°	Boundary Point
R9	N14.84114°	E77.83010°	Boundary Point
R10	N14.84105°	E77.82938°	Boundary Point
R11	N14.84099°	E77.82924°	Boundary Point
M1	N14.84091°	E77.82995°	Mouth pit
M2	N14.84111°	E77.83064°	Mouth pit
M3	N14.84172°	E77.83111°	Mouth pit

APPROVED

M. RAMASUBBA REDDY
RQP/DMG/AP/06/2022

B. Ramadevi

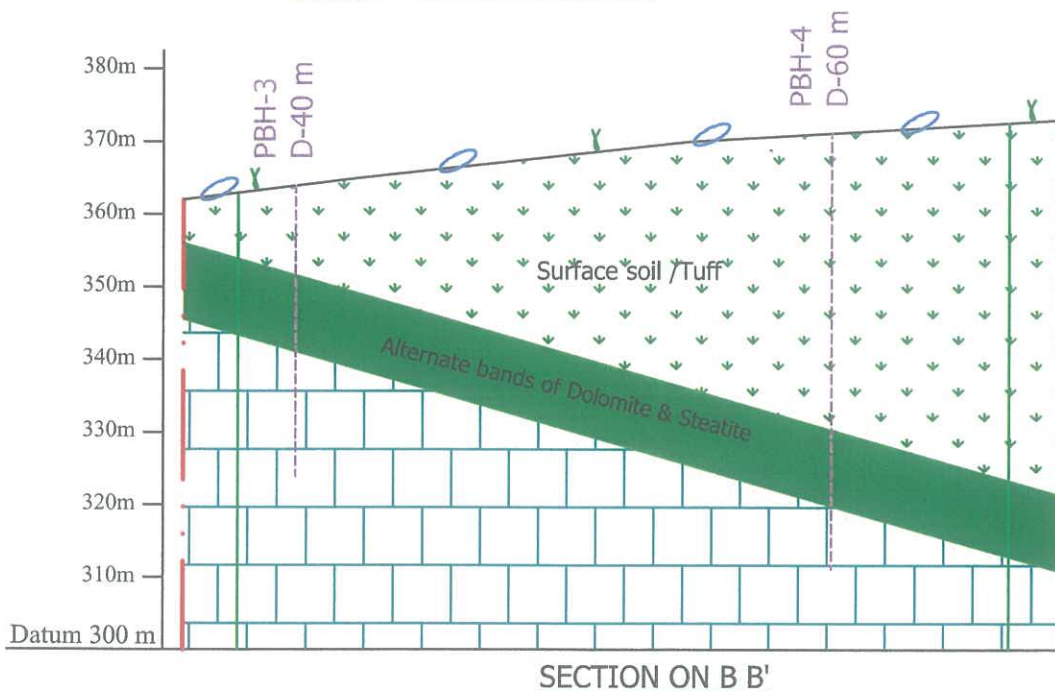
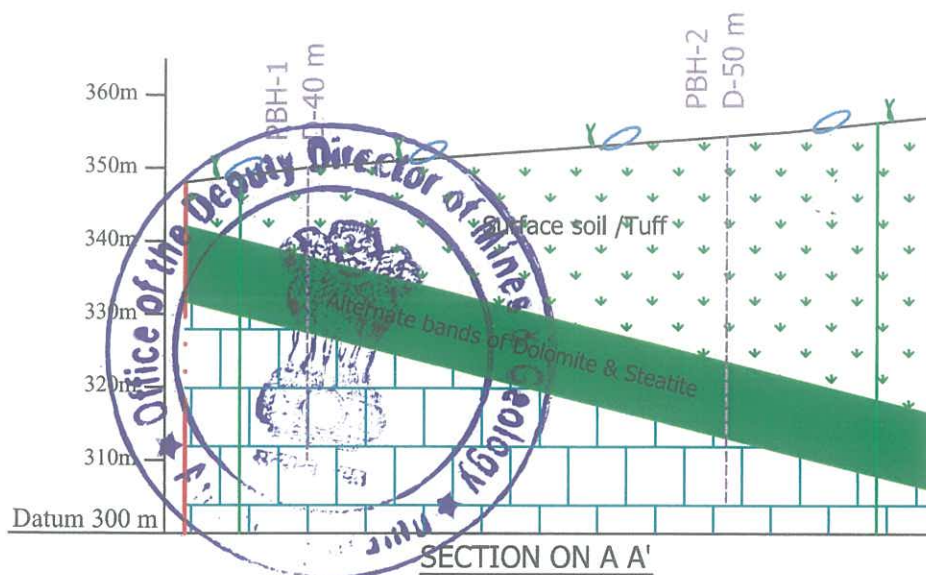
For Rama Minerals

B. Ramadevi
Applicant

Proprietor

B. Ramadevi
Surveyor,
o/O ADM&G,
Tadipatri

Asst. Director of Mines & Geology
Tadipatri
TADIPATRI.



APPROVED

PLATE NO. 4

INDEX

- QL Boundary
- Surface soil /Tuff
- Dolomitic limestone out crop
- Alternate bands of Dolomite & Steatite
- Low grade Dolomite
- Proposed Bore Hole DTH

M.RAMA SUBBA REDDY
 RQP/DMG/AP/06/2022

GEOLOGICAL CROSS SECTIONS

NAME OF THE MINE

RAMA MINERALS

SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL,
 IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE,
 ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER

M/S RAMA MINERALS,

Propreitor : **SMT. RAMA DEVI**

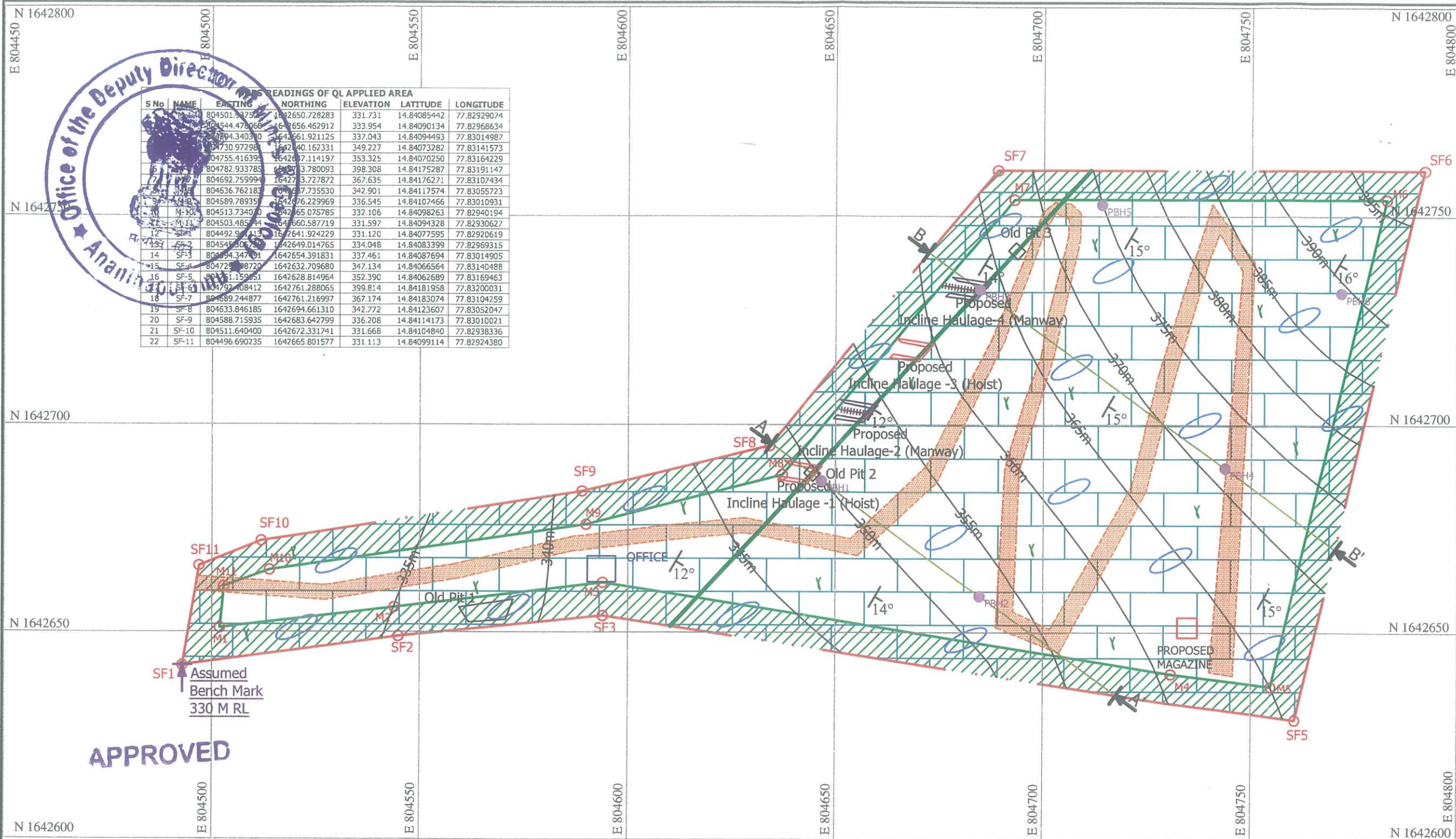
1/35, MUTCHUKOTA VILLAGE,
 PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.

EXTENT 2.03Hect | SCALE - 1:1000 R.F. | DATE OF SURVEY 10-01-2022




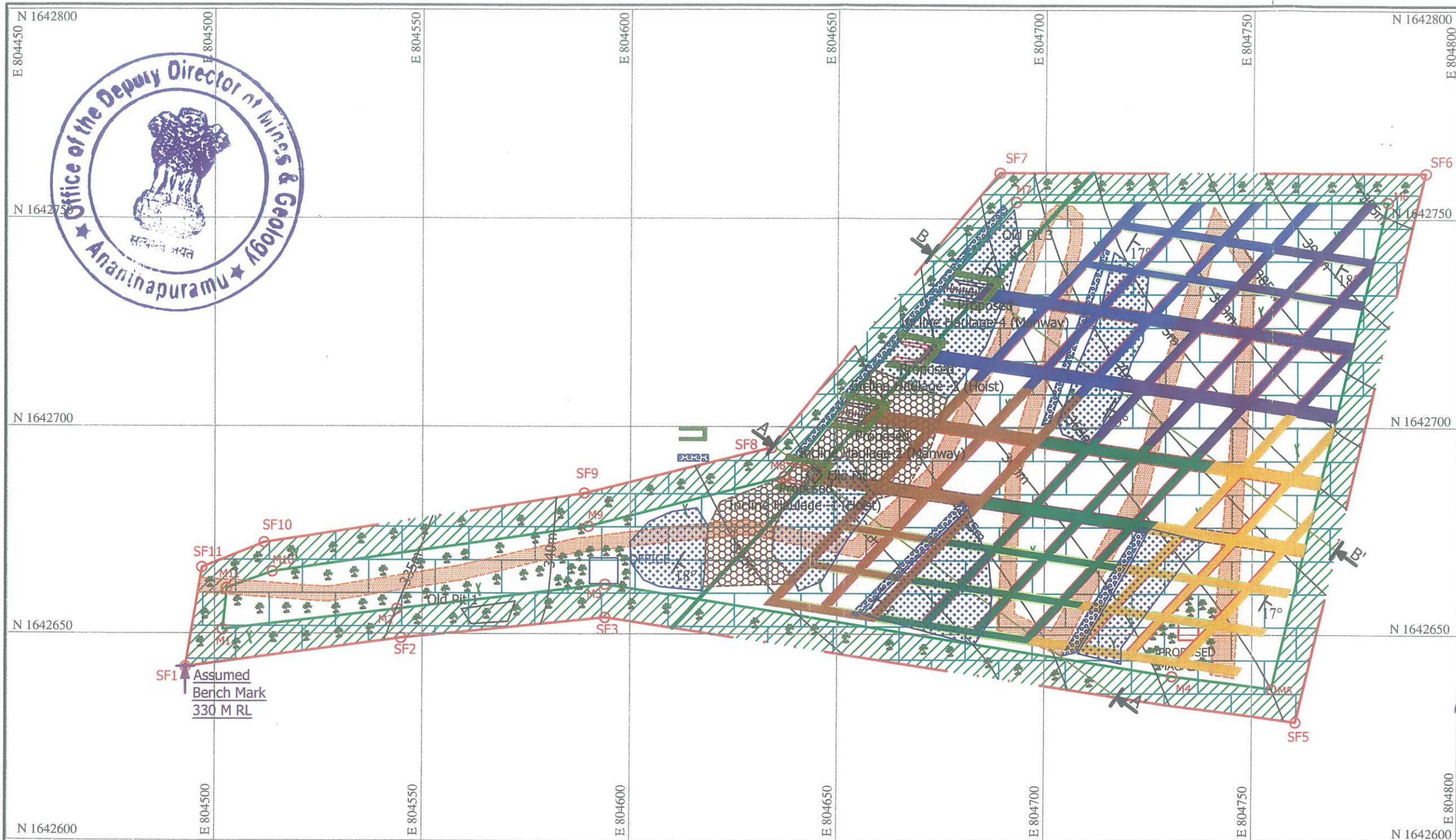
Smart Survey Solutions
 PLOT No.7B, 6 th CROSS, RIGHT SIDE
 SIR M.V.NAGAR, KAPPAGAL ROAD,
 BELLARY Contact : 9483384423-27
 E Mail : smartssall@gmail.com

B. Ramadevi
 LESSEE



M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

SURFACE & GEOLOGICAL PLAN		
NAME OF THE MINE RAMA MINERALS		
QL AREA APPLIED FOR DOLOMITE & STEATITE IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE, ANANTHAPURAMU DIVISION OF JULAKALVA VILLAGE, SINGANAMALA MANDAL, ANANTHAPURAMU DISTRICT, ANDRA PRADESH STATE.		
NAME OF THE OWNER M/S RAMA MINERALS, Proprietor : SMT. RAMA DEVI # 1/35, MUTCHUKOTA VILLAGE, PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.		
EXTENT 2.03Hect	SCALE - 1:1000 R.F.	DATE OF SURVEY 10-01-2022
 Smart Survey Solutions PLOT No.7B, 6th CROSS, RIGHT SIDE SIR M.V.HAGAR, KAPPAGAL ROAD, BELLARY Contact : 9483384423-27 E Mail : smartssall@gmail.com		
		<i>B.Ramadevi</i> LESSEE



APPROVED

PLATE NO. 5

INDEX

- | | |
|--|-------------------------|
| QL Applied Boundary | Interconnections |
| Proposed Roads | Levels |
| Sections | Proposed Stock yard |
| Contours | Proposed Dumps yard |
| 7.5 m Buffer zone/UPL | Proposed Plantation |
| Proposed Track | Proposed Parapit Wall |
| Assumed Bench Mark 330m RL | Proposed Retaining Wall |
| Strike & Dip | |
| Proposed Incline Haulage (Hoist) | |
| Proposed Incline Haulage (Manway) | |
| Surface soil /Tuff | |
| Dolomitic limestone out crop | |
| Alternate bands of Dolomite & Steatite | |
| Low grade Dolomite | |
| Proposed Bore Hole DTH | |

YEAR WISE PRODUCTION & DEVELOPMENT PLAN

YEAR	PRODUCTION & DEVELOPMENT
I	
II	
III	
IV	
V	

M. RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

PROPOSED YEAR WISE PRODUCTION & DEVELOPMENT PLAN FOR 5 YEARS

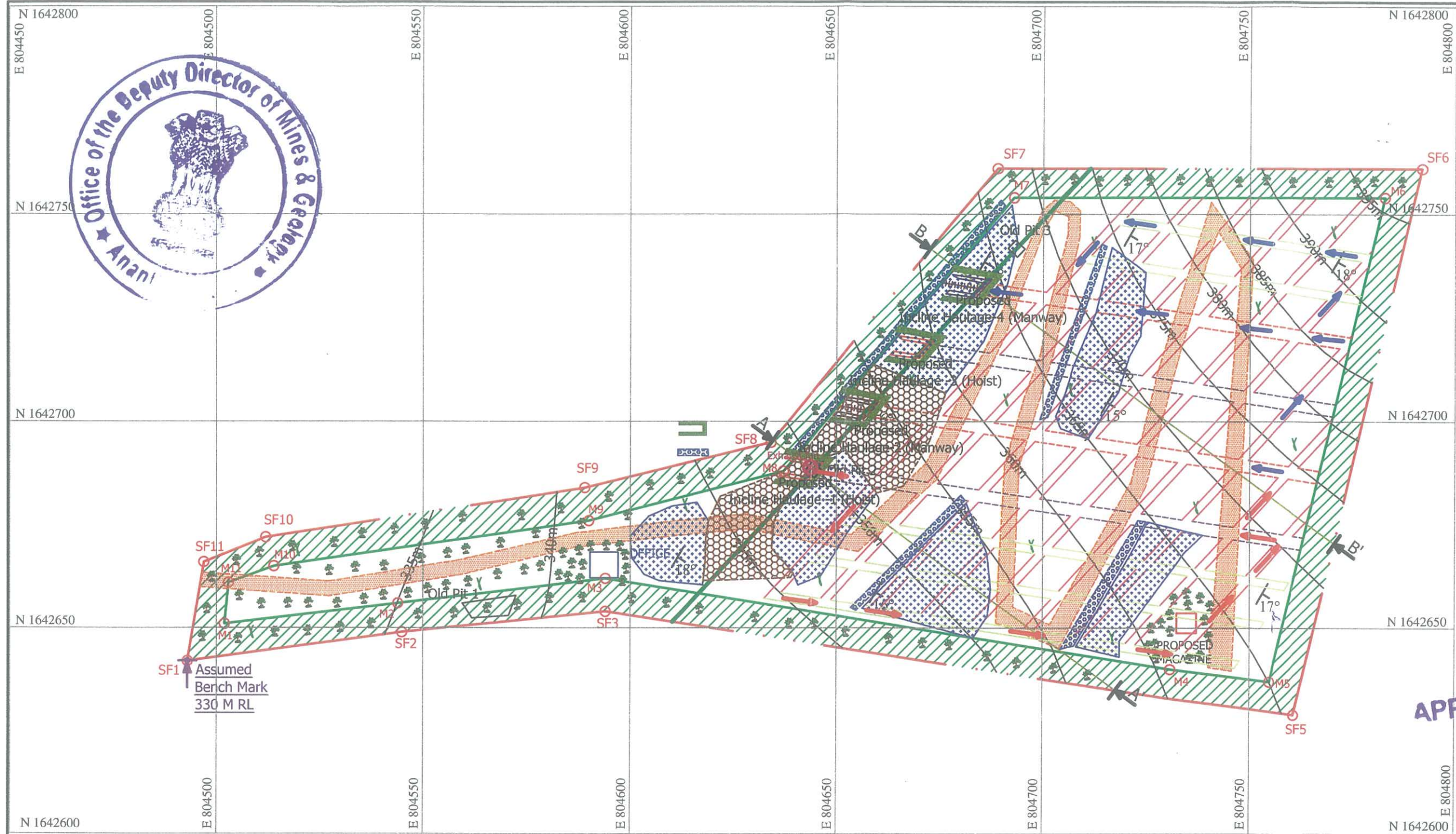
NAME OF THE MINE
RAMA MINERALS
SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL,
IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE,
ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER
M/S RAMA MINERALS,
Proprietor : **SMT. RAMA DEVI**
1/35, MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.

EXTENT 2.03Hect | SCALE - 1:1000 R.F. | DATE OF SURVEY 10-01-2022

Smart Survey Solutions
PLOT No.7B, 6th CROSS, RIGHT SIDE
SIR M.V.NAGAR, KAPPAGAL ROAD,
BELLARY Contact : 9483384423-27
E Mail : sinartssall@gmail.com

B. Ramababu
LESSEE



APPROVED

INDEX

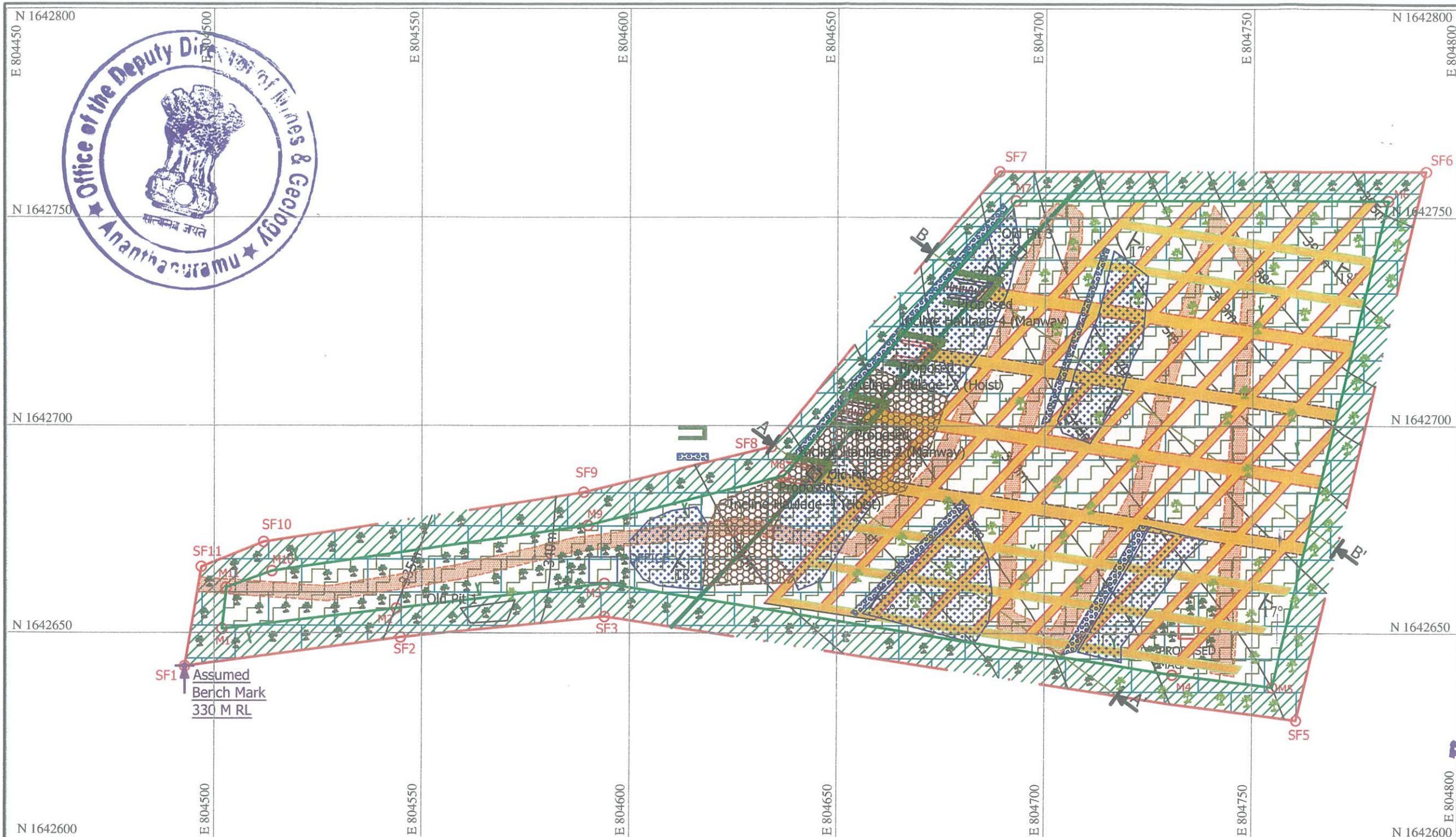
- | | | |
|--|-------------------------|---|
| QL Applied Boundary | Interconnections | Intake Air
Return Air
Exhaust fan |
| Proposed Roads | Levels | |
| Sections | Proposed Stock yard | |
| Contours | Proposed Dumps yard | |
| 7.5 m Buffer zone/UPL | Proposed Plantation | |
| Proposed Track | Proposed Parapit Wall | |
| Assumed Bench Mark 330m RL | Proposed Retaining Wall | |
| Strike & Dip | | |
| Proposed Incline Haulage (Hoist) | | |
| Proposed Incline Haulage (Manway) | | |
| Surface soil /Tuff | | |
| Dolomitic limestone out crop | | |
| Alternate bands of Dolomite & Steatite | | |
| Low grade Dolomite | | |
| Proposed Bore Hole DTH | | |

PLATE NO. 6

SCHEME OF VENTILATION

NAME OF THE MINE RAMA MINERALS		
SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL, IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE, ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.		
NAME OF THE OWNER M/S RAMA MINERALS, Propreitor : SMT. RAMA DEVI # 1/35, MUTCHUKOTA VILLAGE, PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.		
EXTENT 2.03Hect	SCALE - 1:1000 R.F.	DATE OF SURVEY 10-01-2022
 Smart Survey Solutions PLOT No.7B, 6th CROSS, RIGHT SIDE SIR M.V.NAGAR, KAPPAGAL ROAD, BELLARY Contact : 9483384423-27 E Mail : smartssall@gmail.com		<i>B. Ramadevi</i> LESSEE

M. Rama Subba Reddy
M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022



APPROVED

I N D E X

- | | |
|--|------------------------------|
| QL Applied Boundary | Interconnections |
| Proposed Roads | Levels |
| Sections | Proposed Stock yard |
| Contours | Proposed Dumps yard |
| 7.5 m Buffer zone/UPL | Proposed Plantation |
| Proposed Track | Proposed Parapit Wall |
| Assumed Bench Mark 330m RL | Proposed Retaining Wall |
| Strike & Dip | Proposed Plan period Mining |
| Proposed Incline Haulage (Hoist) | Conceptual period Mining |
| Proposed Incline Haulage (Manway) | Conceptual period Plantation |
| Surface soil /Tuff | |
| Dolomitic limestone out crop | |
| Alternate bands of Dolomite & Steatite | |
| Low grade Dolomite | |
| Proposed Bore Hole DTH | |

PLATE NO. 7

CONCEPTUAL PLAN

NAME OF THE MINE

RAMA MINERALS

SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL,
IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE,
ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER

M/S RAMA MINERALS,

Proprietor : **SMT. RAMA DEVI**

1/35, MUTCHUKOTA VILLAGE,

PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.

EXTENT 2.03Hect | SCALE - 1:1000 R.F. | DATE OF SURVEY 10-01-2022

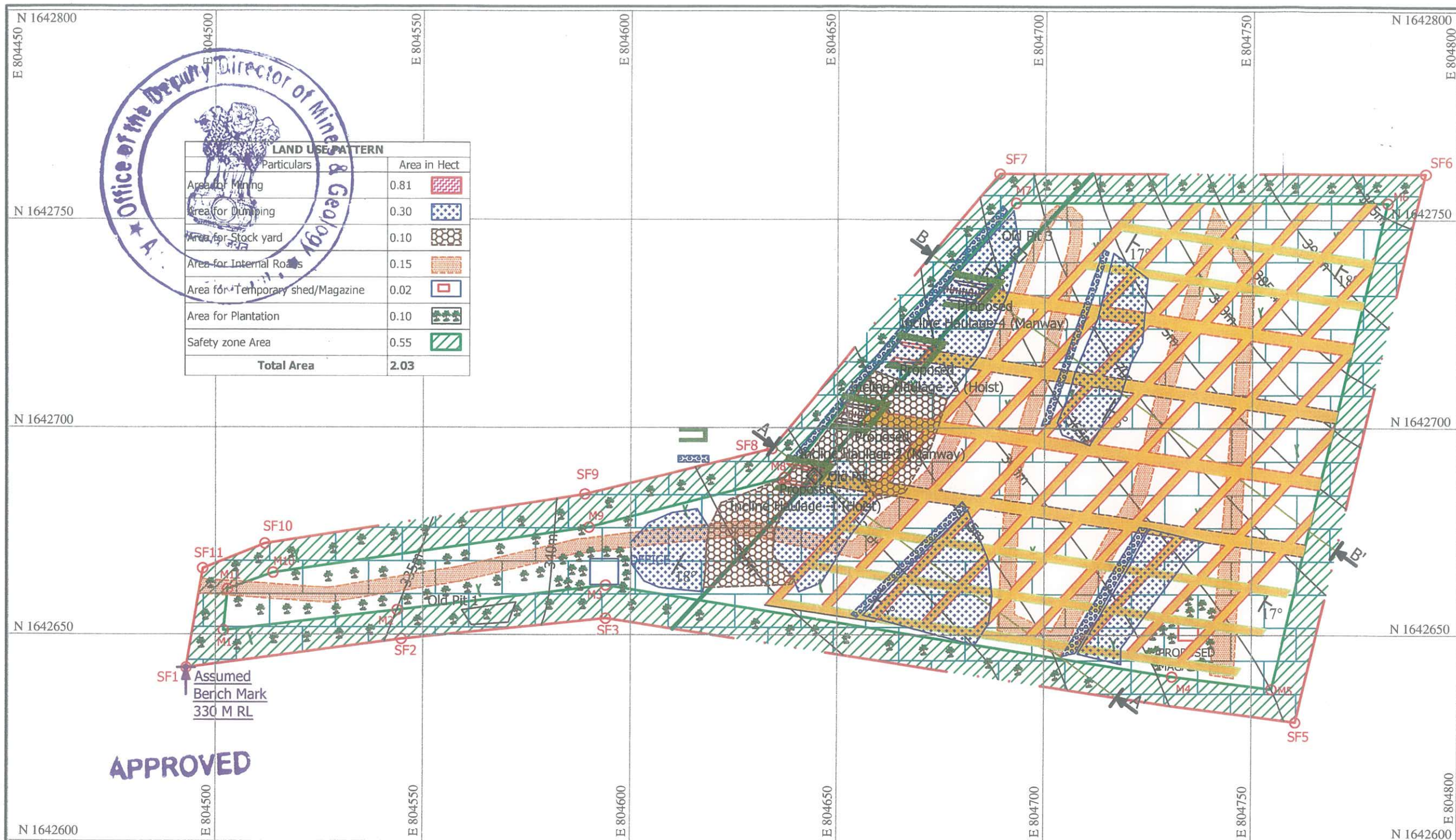


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PLOT No.7B, 6th CROSS, RIGHT SIDE
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M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

B. Ramadevi
LESSEE



INDEX

- QL Applied Boundary
- Proposed Roads
- Sections
- Contours
- 7.5 m Buffer zone/UPL
- Proposed Track
- Assumed Bench Mark 330m RL
- Strike & Dip
- Proposed Incline Haulage (Hoist)
- Proposed Incline Haulage (Manway)
- Surface soil /Tuff
- Dolomitic limestone out crop
- Alternate bands of Dolomite & Steatite
- Low grade Dolomite
- Proposed Bore Hole DTH
- Interconnections
- Levels
- Proposed Stock yard
- Proposed Dumps yard
- Proposed Plantation
- Proposed Parapit Wall
- Proposed Retaining Wall
- Proposed Plan period Mining

Sl. No.	Type of land use	Area of land use in Hect			The area considered as fully reclaimed & rehabilitated	Net area considered for calculation of financial assurance (figures of column 4 or 5 marked with asterisk (*) minus figures of column 6)
		As at present	As at the end of planned period of 5 years	As at the end of conceptual period (life of the mine)		
1	Area of under Mining	-	0.810	0.810	-	0.810
2	Storage for top soil	-	-	-	-	-
3	Waste Dump site	-	0.300	0.300	-	0.300
4	Mineral storage	-	0.100	0.100	-	0.100
5	Infrastructure (work shop, etc)	-	0.020	0.020	-	0.020
6	Roads	-	0.150	0.150	-	0.150
7	Tailing pond	-	-	-	-	-
8	Effluent treatment plant	-	-	-	-	-
9	Mineral separation plant	-	-	-	-	-
10	Other (Plantation)	-	0.650	0.650	-	0.650
Total (which should be equal to the lease area in each of columns 3, 4 & 5)		-	2.030	2.030	-	2.030

M.RAMA SUBBA REDDY
RQP/DMG/AP/06/2022

PLATE NO. 8

PROGRESSIVE MINE CLOSURE PLAN

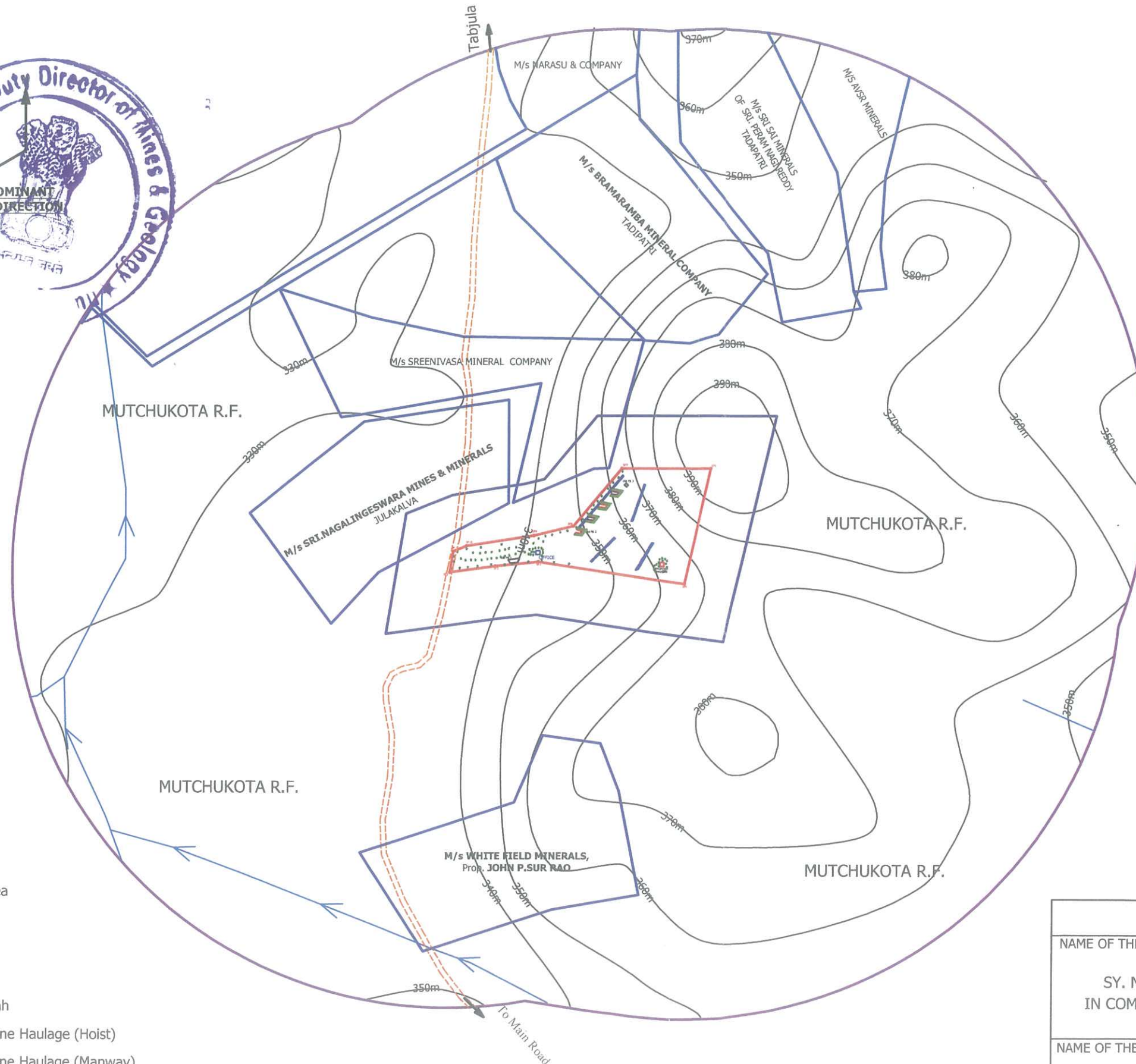
NAME OF THE MINE
RAMA MINERALS
SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL,
IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE,
ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER
M/S RAMA MINERALS,
Proprietor : **SMT. RAMA DEVI**
1/35, MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.

EXTENT 2.03Hect | SCALE - 1:1000 R.F. | DATE OF SURVEY 10-01-2022

Smart Survey Solutions
PLOT No.78, 6th CROSS, RIGHT SIDE
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B. Ramadurai
LESSEE



INDEX

- QL Applied area
- Roads
- Old pits
- Contours
- Seasonal Nallah
- Proposed Incline Haulage (Hoist)
- Proposed Incline Haulage (Manway)
- Track Proposed
- Parapit wall
- 60 m limit line
- 500 m limit line
- Other Quarry lease
- Plantation Proposed

APPROVED

B. Ramadevi

PLATE NO. 9

ENVIRONMENTAL PLAN

NAME OF THE MINE	RAMA MINERALS
SY. No.300/1 OF JULAKALVA VILLAGE, SINGANAMALA MANDAL, IN COMPARTMENT NO 594/P OF MUTCHUKOTA R.F., GOOTY RANGE, ANANTAPURAMU DISTRICT, ANDRA PRADESH STATE.	
NAME OF THE OWNER	M/S RAMA MINERALS, Proprietor : SMT. RAMA DEVI # 1/35, MUTCHUKOTA VILLAGE, PEDDAPAPPUR MANDAL -515445, ANANTHAPURAMU DIST.
EXTENT 2.03Hect	SCALE - 1:5000 R.F. DATE OF SURVEY 10-01-2022
 Smart Survey Solutions PLOT No.78, 6 th CROSS, RIGHT SIDE SIR M.V.NAGAR, KAPPAGAL ROAD, BELLARY Contact : 9483384423-27 E Mail : smartssall@gmail.com	
LESSEE	

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