

MINING SCHEME
INCLUDING
PROGRESSIVE MINE CLOSURE PLAN

UNDER RULE 7 (A) OF APMMR 1966

UNDER RULE 23 B OF MCDR 2017

SUBMITTING IN ACCORDANCE WITH G.O.MS NO 56,
INDUSTRIES & COMMERCE (M.II), DATED 30-04-2016

OF
APPROVED

MUTCHUKOTA STEATIE & DOLOMITE MINE

'B' CATEGORY MANUAL UNDER GROUND METHOD OF MINING IN (FOREST AREA)
FOR STEATITE & DOLOMITE IN COMPARTMENT NO 594/P & 596 OF MUTCHUKOTA
R.F., GOOTY RANGE, TN SY.NO. 574/P OF MUTCHUKOTA VILLAGE, PEDDAPAPPUR
MANDAL, ANANTHAPURAMU DISTRICT, ANDHRA PRADESH STATE

EXTENT 4.05 Hect

PERIOD OF SCHEME 2018-19 TO 2022-22
PROPOSAL SUBMITTED 2019-20 TO 2022-23

OF

M/S SRI.SAI MINERALS,
PROP : SRI.PERAM NAGI REDDY

H.NO. 15/591, WATER WORKS ROAD, TADIPATRI – 515 411,
ANANTHAPURAMU DISTRICT, ANDHRA PRADESH STATE.

JUNE – 2019

By

SRI. M RAMA SUBBA REDDY
RQP/MAS/072/89/A, RQP/DMG/HYD/59/2018

Smart Survey Solutions,

BALLARI, KARNATAKA
Ph : 9845825389, 9483384427

M/S SRI SAI MINERALS,
Prop : Sri. Peram Nagi Reddy
H.No. 15/591, Water Works Road,
Tadipatri - 515 411
Anantapur



CERTIFICATE

We hereby Certify that the Mining Scheme including Progressive Mine Closure Plan is prepared 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 Mutchukota Steatite & Dolomite Mine of M/s Sri.Sai Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri in Compartment no 594/P & 596 of Sy. No. 574/P of Mutchukota Village, Mutchukota R.F., Gooty Range, Pedda Pappur Mandal, Anantapur District, Andhra Pradesh State over an extent of 4.05 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 Sri Sai Minerals,


Sri. Peram Nagi Reddy
Proprietor

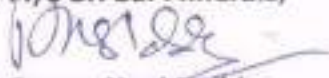
M/S SRI SAI MINERALS,
Prop : Sri. Peram Nagi Reddy
H.No. 15/591, Water Works Road
Tadipatri - 515 411
Anantapur



CERTIFICATE

The provisions of Mines Act, Rules and Regulation made there under have been observed in the Mining Scheme including Progressive Mine Closure Plan have been prepared for Mutchukota Steatite & Dolomite Mine of M/s Sri.Sai Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri in Compartment no 594/P & 596 of Sy. No. 574/P of Mutchukota Village, Mutchukota R.F., Gooty Range, Pedda Pappur Mandal, Anantapur District, Andhra Pradesh State over an extent of 4.05 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 Sri Sai Minerals,


Sri. Peram Nagi Reddy
Proprietor

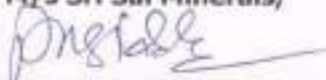
M/S SRI SAI MINERALS,
Prop : Sri. Peram Nagi Reddy
H.No. 15/591, Water Works Road,
Tadipatri – 515 411
Anantapur



CERTIFICATE

We here by certify that the Progressive Mine Closure Plan under rule 23 B MCDR 2017 of the Mining Scheme including Progressive Mine Closure Plan have been prepared for Mutchukota Steatite & Dolomite Mine of M/s Sri.Sai Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri in Compartment no 594/P & 596 of Sy. No. 574/P of Mutchukota Village, Mutchukota R.F., Gooty Range, Pedda Pappur Mandal, Anantapur District, Andhra Pradesh State over an extent of 4.05 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 Scheme 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 Sri Sai Minerals,


Sri. Peram Nagi Reddy
Proprietor




M.RAMA SUBBA REDDY
Geologist



Smart Survey Solutions

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 Scheme including Progressive Mine Closure Plan have been prepared for Mutchukota Steatite & Dolomite Mine of M/s Sri.Sai Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri in Compartment no 594/P & 596 of Sy. No. 574/P of Mutchukota Village, Mutchukota R.F., Gooty Range, Pedda Pappur Mandal, Anantapur District, Andhra Pradesh State over an extent of 4.05 Hect and whenever specific permissions are required the lessee will approach the authorities of Deputy Director of Mines & Geology, Kurnool for granting the permissions.


M.RAMA SUBBA REDDY
RQP/DMG/HYD/59/2018

Smart Survey Solutions

Plot No 7B, 6th Cross Right Side Sir M V Nagar Kappagal Road Bellary - 583103
Email id smartssall@gmail.com Contact - 9483384423-27




M.RAMA SUBBA REDDY
Geologist



CERTIFICATE

This is to certify that all the provisions of Mines Act, Rules and Regulations made there under have been observed in the Mining Scheme including Progressive Mine Closure Plan have been prepared for Mutchukota Steatite & Dolomite Mine of M/s Sri.Sal Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri in Compartment no 594/P & 596 of Sy. No. 574/P of Mutchukota Village, Mutchukota R.F., Gooty Range, Pedda Pappur Mandal, Anantapur District, Andhra Pradesh State over an extent of 4.05 Hect and whenever specific permissions are required, the lessee will approach the Director General of Mines Safety, Dhanbad.

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


M.RAMA SUBBA REDDY
RQP/DMG/HYD/59/2018

Smart Survey Solutions

Plot No 7B, 6th Cross Right Side Sir M V Nagar Kappagal Road Bellary - 583103
Email id smartssall@gmail.com Contact - 9483384423-27

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**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI.PERAM NAGI REDDY, TADIPATRI.**

**FORM - T
(SEE RULE 7 (A))**

**MINING SCHEME INCLUDING PROGRESSIVE MINE CLOSURE PLAN OF
MUTCHUKOTA STEATITE & DOLOMITE MINE OF M/S.SRI.SAI MINERALS, PROP :
SRI.PERAM NAGI REDDY, TADIPATRI FOR STEATITE & DOLOMITE IN SY. NO. 574/P
OF MUTCHUKOTA VILLAGE, PEDDA PAPPUR MANDAL, ANANTHAPURAMU DISTRICT,
COMPARTMENT NO 594/P & 596 MUTCHUKOTA R.F., GOOTY RANGE,
ANDHRA PRADESH STATE OVER AN EXTENT OF 4.05 HECT.**

1.0 INTRODUCTION :

M/s Sri.Sai Minerals, Prop : Sri.Peram Nagi Reddy, Tadipatri possess a mining lease for Steatite & Dolomite in Sy. No. 574/P of Mutchukota Village, Pedda Pappur Mandal, Ananthapuramu District, Andhra Pradesh State over an extent of 4.05 Hect and this entire area falls in Compartment no 594/P & 596 of Mutchukota R.F., Gooty Range, Ananthapuramu Division.

The mining lease is mainly mined for the production of the steatite & Dolomite. The lease was originally granted on 23.08.2003 and proceeding No. 852/M2/2003 dated 12-09-2003 copy of the same is enclosed as **Annexure-I**. The mine was executed on 12-09-2003 and valid for 20 years, Lease will expire on 11-09-2023 copy of the lease deed is enclosed as **Annexure-IA**. The date of commencement of the mining operation is 13.09.2003.

The subject area is forest area the forest department, accorded permission for renewal of Forest clearance from Environment, Forest, Science & Technology (For.I) Department G.O.Ms No. 20 dated 01-03-2013 and Proceedings from District Forest Officer, Ananthapuramu vide RC No 3092/2011/TO dated 04-04-2012 copies are enclosed vide **Annexure-II**.

The first mining plan was approved by DMG for open cast mine, Letter No. 24930/MPI/2033, dated 14-08-2003.

Later the mine was converted into underground mine and the modified mining plan was approved by IBM Letter No. AP/ANP/MP/ST-30/HYD, dated 03-04-2007. The Mining plan period of five years is expired on 31st March 2008.

1st Scheme of Mining for the period 2012-13 was approved vide letter No. AP/ANP/MP/St-30/Hyd dated 13-08-2012.

This Mining Plan is approved subject to the
Conditions/Stipulations indicated in the Mining
Plan Approval Letter No. 1206/M6-TDP/2019
Dated 27-06-2019

Approved
P. RAJA BABU
Deputy Director of Mines & Geology
KURNOOL.

M/s SMART SURVEY SOLUTIONS, BALLARI, 9483384427, 9845825389 MAIL bpgouda00@gmail.com

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

2nd Scheme of Mining for the period 2013-14 to 2017-18 was approved vide letter No. AP/ANP/MP/MS/St-30/Hyd dated 21-01-2014 approval letters are enclosed vide **Annexure-III.**

Now 3rd Scheme of Mining is prepared Under Rule 7 (A) of APMR 1966 As per G.O. M.S. No. 56, Industries & Commerce (Mines-II) 30th April 2016 for next 5 years i.e. 2018-19 to 2022-23.

The lessee has got Environmental Clearance from State Level Environment Impact Assessment Authority (SEIAA) vide Order No. SEIAA/AP/ATP-58/2013/4499 dated 23-10-2013 for the capacity of 2498 tonnes/annum of Steatite and 1031 tonnes/annum of Dolomite. The copy of the EC and CFO is enclosed vide Annexure-IV.

I. GENERAL :

1. NAME & ADDRESS OF THE APPLICANT :

PERMANENT ADDRESS	ADDRESS FOR CORRESPONDENCE
M/s Sri. Sai Minerals, Prop : Sri. Peram Nagi Reddy H.No. 15/591, Water Works Road, Tadipatri – 515 411 Ananthapuramu Ph : 09908515133 Email ID :vishwanath.royal@gmail.com	M/s Sri. Sai Minerals, Prop : Sri. Peram Nagi Reddy H.No. 15/591, Water Works Road, Tadipatri – 515 411 Ananthapuramu Ph : 09908515133 Email ID :vishwanath.royal@gmail.com

2. STATUS OF APPLICANT / LESSEE :

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

The lessee is a Proprietor ship Firm involved in Mining & trading.

3. MINERAL (S) WHICH ARE INCLUDED IN THE LETTER OF INTENT :

Steatite & Dolomite.

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

Name	:	SRI. M. RAMA SUBBA REDDY, Geologist
Address	:	C/o. B. POMPANA GOUDA Kappagal Road, Sir M.V.Nagar, 6 th Cross, Right Side, Bellary District, KARNATAKA, INDIA
Telephone	:	09845825389, 9483384427
E. Mail	:	bpgouda00@gmail.com

RQP and Experience Certificate is enclosed vide **Annexure – V.**

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI.PERAM NAGI REDDY, TADIPATRI.**

II. LOCATION AND ACCESSIBILITY :

1. LEASE DETAILS (EXISTING MINE) :

State	Andhra Pradesh
District	Ananthapuramu
Mandal	: Pedda Pappur
Village	: Mutchukota
Sy. No	: 574/P
Extent of Lease Area	: 4.05 Hect
Owner ship	: Mutchukota R.F. (Forest Area)
Compartment no	: 594/P & 596
Topo sheet No	: 57 F/13
Pin code	: 515445

DGPS READINGS OF QL AREA BOUNDARY PILLARS		
BOUNDARY PILLAR	LATITUDE(NORTHING)	LONGITUDE (EASTING)
BP1	14.84644	77.83174
BP2	14.84692	77.83180
BP3	14.84667	77.83263
BP4	14.84485	77.83335
BP5	14.84357	77.83342
BP6	14.84341	77.83348
BP7	14.84334	77.83260
BP8	14.84404	77.83255
BP9	14.84529	77.83174
BP10	14.84576	77.83174
Map Datum : WGS 84		

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

Location cum Key Plan is enclosed vide Plate No 1.

Lease area map is enclosed vide Plate No 2.

3. ACCESSIBILITY :

The QL 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. Pedda Pappur is the Mandal head quarter which is about 10 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.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI.PERAM NAGI REDDY, 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.

III. DETAILS OF APPROVED MINING PLAN/SCHEME OF MINING (IF ANY) :

DATE AND REFERENCE OF EARLIER APPROVED MINING PLAN /SCHEME OF MINING :

The first mining plan was approved by DMG for open cast mine, Letter No. 24930/MPI/2033, dated 14.08.2003.

Later the mine was converted into underground mine and the modified mining plan was approved by IBM Letter No. AP/ANP/MP/ST-30/HYD, dated 03.04.2007. The Mining plan period of five years is expired on 31st March 2008.

1st Scheme of Mining for the period 2012-13 was approved vide letter No. AP/ANP/MP/St-30/Hyd dated 13-08-2012.

2nd Scheme of Mining for the period 2013-14 to 2017-18 was approved vide letter No. AP/ANP/MP/MS/St-30/Hyd dated 21-01-2014 approval letters are enclosed vide **Annexure-III.**

Now 3rd Scheme of Mining is prepared Under Rule 7 (A) of APMMR 1966 As per G.O. M.S. No. 56, Industries & Commerce (Mines-II) 30th April 2016 for next 4 years i.e. 2019-20 to 2022-23.

GIVE REVIEW OF EARLIER APPROVED PROPOSAL (IF ANY) IN RESPECT OF
EXPLORATION, EXCAVATION, RECLAMATION ETC :

EXPLORATION :

YEAR	PROPOSED	ACHIVED	REMARKS
2013-14	5 number of bore holes are proposed to a depth of 5m each	Lessee has made detailed exploration in the lease area to know the depth of the deposit in the lease area and 6 number of bore holes (DTH type) were drilled during the year 2013-2014	Nil
2014-15	Nil	Nil	Nil
2015-16	Nil	Nil	Nil
2016-17	Nil	Nil	Nil
2017-18	Nil	Nil	Nil
2018-19	Nil	Nil	Nil
Total	5	6	

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI.PERAM NAGI REDDY, TADIPATRI.**

EXCAVATION :

MINE DEVELOPMENT :

Year-wise proposed & achieved development details are given below

MINE DEVELOPMENT IN TONNES		
YEAR	PROPOSED DEVELOPMENT	ACHIEVED DEVELOPMENT
2013-14	4051	3000
2014-15	1502	1300
2015-16	3093	2500
2016-17	2439	1800
2017-18	1911	1200
2018-19	600	600
Total	13596	10400

REMARKS : Nil.

EXPLOITATION :

The Proposed and achieved production of Dolomite & Steatite are as follows :

PRODUCTION IN TONNES				
YEAR	PROPOSED PRODUCTION		ACHIEVED PRODUCTION	
	DOLOMITE	STEATITE	DOLOMITE	STEATITE
2013-14	943	2498	840	2395
2014-15	354	756	630	2472
2015-16	743	1073	910	2398
2016-17	575	1227	740	2475
2017-18	450	961	580	2436
2018-19	1031	2498	720	2483
Total	4096	9013	4420	14659

REMARKS : Nil.

AFFORESTATION PROGRAMME :

YEAR	PROPOSED AFFORESTATION	ACHIEVED AFFORESTATION
2013-14	100	80
2014-15	100	90
2015-16	100	85
2016-17	100	90
2017-18	100	90
2018-19	100	90
Total	500	525

The afforestation was carried out in the 7.5 M Buffer area, near office and old dumps the survival rate of plants is poor because of water scarcity. Even though some small bushes are existing.

RECLAMATION AND REHABILITATION :

PROPOSALS : No proposals.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

ACHIEVED : Since the mineral are existing further depth, no reclamation and rehabilitation was carried-out and proposed for the ensuing scheme period.

REMARKS : Nil

CONTROL OF DUST, NOISE AND GROUND VIBRATIONS :

CONTROL OF DUST :

PROPOSALS : No proposals.

ACHIEVED : Since the mining operations are being carried out with occasional drilling and blasting not much dust generation was found.

REMARKS : Nil

NOISE :

PROPOSALS : Control of noise to be within the limits.

ACHIEVED : Since the mining operations are being carried out with occasional drilling and blasting not much noise was found.

VIBRATION :

PROPOSALS : Control of vibration to be within the limits.

ACHIEVED : Not much vibrations was anticipated from Jackhammer drilling & blasting to a depth of 1.5 m. Since the mining operations are being carried out with occasional drilling and blasting not much vibrations were found.

REMARKS : Nil

ANY OTHER SIGNIFICANT FEATURES :

There is no other significant deficiency as per the Approved Scheme of Mining.

ANY OTHER POINTS : Nil.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP. SRI. PERAM NAGI REDDY, TADIPATRI.**

PART-A

1. GENERAL DETAILS OF THE APPLIED AREA/MINING LEASE :

**a) BRIEF DESCRIPTION OF TOPOGRAPHY, DRAINAGE PATTERN, VEGETATION, CLIMATE,
RAINFALL DATA OF THE APPLIED AREA/MINING LEASE AREA :**

TOPOGRAPHY :

The topography of the QL area is small hillock, having gentle rising slope towards North, North West and North East. The highest and lowest elevation in the QL area is 370m & 338m respectively from the assumed benchmark of 368 m the assumed benchmark is shown in Plate No.3. The Surface & Geological plan & Geological Cross Sections have been prepared on Scale of 1:1000 R.F. & enclosed vide Plate No.3 & 5.

DRAINAGE PATTERN :

The rainwater passes along the gentle slope & into the existing drainage nallah leading towards north east direction. The rain water drains into a shallow and narrow first order stream at northeastern part of lease area, & it joins main drainage.

VEGETATION :

As the QL area is Forest area and the method of mining was underground method so there is no damage to the vegetation. The natural vegetation is scanty. The QL area surrounded has Forest lands.

CLIMATE :

According to Mandal revenue office, the maximum temperature 45°C during summer & 18°C during winter months. Humidity is about 70% in the rainy season.

RAINFALL DATA :

Highest rain fall	500 mm/annum
Lowest rain fall	400 mm/annum

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

2. GEOLOGY AND EXPLORATION :

(a) BREIF DESCRIPTIONS OF REGIONAL GEOLOGY WITH REFERENCE TO LOCATION OF LEASE AREA :

REGIONAL GEOLOGY : The region has Kadapa system of rocks where stratigraphy is established by working of as given below :

Upper Kadapa	Krishna series	----Unconformity---- Srisaillam Quartzite's Kolamnela Shale's Iron Shale's ----Unconformity----
	Nallamalai series	Cubum shales Bairen Konda quartzite's --- Unconformity---
	Cheyair series	Tadapatri shales Pulivendla quartzites ----Unconformity---
Lower Kadapa	Papaghani series	Vempalle dolomitic limestone's Gulchere quartzite's ----Unconformity----- Archaean gneisses & schist's

(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 working 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.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

In the lease area the Dolomite & steatite is occurring almost as alternative bands and surface area is most of dolomite 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 140 m length in east west direction with an average thickness of 1m. The dip of steatite is ranging from 15° to 18°. The open cast workings were converted into underground workings in the form of haulage inclines, interconnections and levels and these workings were shown in Plate No.3, 4 & 5. The underground workings revealing that steatite having an average thickness of 1m proved 100m incline length towards southern side and 80m towards North – Western side of the lease area. Around the QL area, there are mining lease areas with underground method of working & steatite in these mines is proved with 150m inclined length. In the steatite mineralized area the Dolomite with alternate beds of steatite are 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.

(c) DETAILS OF PROSPECTING LICENSE HOLDER :

The lessee himself done the prospecting work.

M/s Sri. Sai Minerals,

Prop : Sri. Peram Nagi Reddy

H.No. 15/591, Water Works Road,

Tadipatri – 515 411. Ananthapuramu,

Ph : 09908515133

(d) DETAILS OF PROSPECTING/EXPLORATION ALREADY CARRIED OUT :

DRILLING :

6 numbers of bore holes (DTH type) were drilled with grid interval of 50m to 100m with depth ranging from 30m to 35m. The details of bore holes drilled in the mine are shown in Surface & Geological plan and Geological Cross Sections.

(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.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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- (g) GEOLOGICAL SECTIONS ON NATURAL SCALE AT SUITABLE INTERVAL ACROSS THE LEASE AREA OR APPLIED AREA : The Geological cross sections has been prepared with scale of 1:1000 R.F. for an interval of 50m across the lease area from boundary to boundary and is enclosed vide Plate No. 5.
- (h) BROADLY INDICATE THE FUTURE PROGRAMME OF EXPLORATION WITH DUE JUSTIFICATION TAKING INTO CONSIDERATION THE FUTURE TENTATIVE EXCAVATION PROGRAMME PLANNED IN NEXT FIVE YEARS :

Year	No of bore holes (Core/RC/DTH)	Grid interval in m	Total meterage	No. of pits, dimensions and volume	No. of Trenches, dimensions & volume
2019-20	2	100	101 m	Nil	Nil
2020-21	2	100	83 m	Nil	Nil
2021-22	2	100	98 m	Nil	Nil
2022-23	2	100	98 m	Nil	Nil
Total	8 No DTH	100	380 m	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 AND RESOURCES AS PER UNFC. DETAILED CALCULATION OF RESERVES SHALL BE STATED :

In view of the amended provisions of the MCDR 2017 & in compliance UNFC codification system & further the testimony of the Steatite in ongoing mining activity where in the beds of Steatite, dolomitic limestone, Steatite was exposed both along the strike and dip has necessitated estimation of reserve. Thus, the reserve estimation is in to have been done. The present market scenario has changed the geometry /dimension/configuration and definition of the ore which is dynamic process. The details of reserve/resources estimated and are follows.

PARAMETRS CONSIDERED FOR MINEAL RESERVES ESTIMATION :

Reserves are estimated as proved category based on underground mine workings and drilled bore holes as shown in Plate No.3, 4 & 5. The mine has total 12 incline haulage namely IH-1 to IH-12 in that IH-1, 3, 4 & 7 will be utilized as man way. The length of the inclines haulages and manways are 622 m and Levels length are 213 m and inter connection length are 262 m. The underground openings have exposed the High grade steatite, dolomite & low grade steatite ore beds both along strike and dip direction. As seen from the present working in the lease area steatite veins are observed. As seen from the incline haulages the Steatite, Dolomite alternate band is exposed from 352m RL to 313m. The present workings proved upto that level.

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As seen from the working the High grade steatite thickness is observed 1.6m, dolomite 0.3m & Low grade Steatite 0.1m. The Proved reserves are considered where mineral is proved on four sides proved by mine workings or any other type of exploration (Please see Plate No. 3, 4 & 5). Based on field experience the recovery of High grade steatite is considered as 80% & tonnage factor as 2.5t/cum, recovery of dolomite as 10% & tonnage factor as 2.5 t/cum and recovery of low grade steatite as 5% and tonnage factor 2.5 t/cum average thickness is 2m balance 5 % is intercalated waste tonnage factor 2.0 t/cum. The section wise steatite, dolomite & low grade steatite reserves calculations are given below :

GEOLOGICAL RESERVES/RESOURCE							
PROVED							
X-Sec	X-Sec Area in Sqm	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	9459	65	2	1229670	2459340	307418	153709
BB'	12631	50	2	1263100	2526200	315775	157888
CC'	7706	45	2	693540	1387080	173385	86693
Total					6372620	796578	398289
PROBABLE							
X-Sec	X-Sec Area in Sqm	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	2558	65	2	332540	665080	83135	41568
BB'	3697	50	2	369700	739400	92425	46213
CC'	2298	45	2	206820	413640	51705	25853
Total					1818120	227265	113633

Surface & Geological Plan & Geological Cross Section are enclosed vide Plate No.3 & 5.

- (j) **FEASIBILITY REPORT ALONG WITH FINANCIAL ANALYSIS PER ECONOMIC VIABILITY OF THE DEPOSIT** : Details of UNFC code justification of the Mineable Reserves.

PROVED MINEABLE MINERAL RESERVES, UNFC CODE IS ASSIGNED AS 111

GEOLOGICAL AXIS : Since exploration carried in form of mining in the last Mining scheme period based on underground mine workings and drilled bore holes as shown in Plate No.3, 4 & 5. The mine has total 12 incline haulage namely IH-1 to IH-12 in that IH-1, 3, 4 & 7 will be utilized as man way. The length of the inclines haulages and manways are 622 m and Levels length are 213 m and inter connection length are 262 m. The underground openings have exposed the High grade steatite, dolomite & low grade steatite ore beds both along strike and dip direction. As seen from the present working in the lease area steatite veins are observed. As seen from the incline haulages the Steatite, Dolomite alternate band is exposed from 352m RL to 313m. The present workings proved upto that level.

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As seen from the working the High grade steatite thickness is observed 1.6m, dolomite 0.3m & Low grade Steatite 0.1m. The mineral exposed in the three dimensions and extending continuously in strike and dip direction it is geologically feasible which is considered as Geological axis G1.

FEASIBILITY AXIS : The mining operations are carried from last 15 years, since the Steatite, Dolomite and Low grade Steatite is being salable, so all the mineral are salable. Hence this mining activity is feasible, which is considered as Feasibility axis F1.

ECONOMIC AXIS :

All the mineable mineral having salable grade and its analysis report showing the grade. Analysis report of Steatite, Dolomite & Low grade Steatite is enclosed vide **Annexure-VI**. The last 15 years a sale of mineral show the mining is economical. Hence it's economically feasible which is considered as Economic axis E1

CONCLUSION :

This mining project is profitable and viable.

ECONOMIC EVALUTION :

1. Capital cost of Mining equipment : Rs.50 lakhs
2. Operating cost :

Heads	Cost in Rs
Exploration	200.00
Mining	800.00
Depreciation	10.00
Interest	10.00
Miscellaneous	10.00
Overhead cost	10.00
Total	1040.00

The above cost is a very approximate, whereas due to the market conditions the above shown cost may vary accordingly. In addition to the above statutory taxes on mineral includes the following. The total cost per tonne of Steatite, Dolomite & Low grade Steatite works out to be Rs.1040 + Royalty extra. Recently there are so many industries are running near by the mine site & also the demand for Steatite, Dolomite & Low grade Steatite was more, so the lessee wish to supply the Steatite, Dolomite & Low grade Steatite to various industries. Since the lessee is financially sound enough, provisions already made as per the PMCP & will be made in the annual budgets to close the mine as per the guidelines. The lessee has got excellent image in the market & is managing its operations excellently with high growth rate in terms of production, sales, turnover & profit.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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k) **MINERAL RESERVES** : The Mineable Reserves are tabulated below:

MINEABLE RESERVES							
PROVED G1							
X-Sec	X-Sec Area in Sqm	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	8883	65	2	1154790	2309580	288698	144349
BB'	11931	50	2	1193100	2386200	298275	149138
CC'	7134	45	2	642060	1284120	160515	80258
Total					5979900	747488	373744
PROBABLE G3							
X-Sec	X-Sec Area in Sqm	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	2408	65	2	313040	626080	78260	39130
BB'	3547	50	2	354700	709400	88675	44338
CC'	2148	45	2	193320	386640	48330	24165
Total					1722120	215265	107633

(i) **MINING METHOD, RECOVERY FACTOR, MINING LOSSES, PROCESSING LOSS ETC. :**

The method of mining shall be underground. From the knowledge of exploration, the nature & other geological parameters of the veins of the Steatite, Dolomite & Low grade 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. Proposed water garland and parapet wall are shown in Plate No.10. The mine has total 12 incline haulage namely IH-1 to IH-12 in that IH-1, 3, 4 & 7 will be utilized as man way. The length of the inclines haulages and manways are 622 m and Levels length are 213m and inter connection length are 262m. The underground openings have exposed the steatite, dolomite & Low grade Steatite ore beds both along strike and dip direction. As seen from the present working in the lease area steatite veins are observed. As seen from the incline haulages the Steatite, Dolomite alternate band is exposed from 352m RL to 313m. The present workings proved upto that level. As seen from the working the High grade steatite thickness is observed 1.6m, dolomite 0.3m & Low grade Steatite 0.1m. The Proved reserves are considered where mineral is proved on four sides proved by mine workings or any other type of exploration (Please see Plate No. 3, 4 & 5). Based on field experience the recovery of High Steatite is considered as 80% and tonnage factor as 2.5t/cum, recovery of Dolomite as 10% and tonnage factor as 2.5 t/cum and recovery of Low grade Steatite as 5 % and tonnage factor 2.5 t/cum average thickness is 2m.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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- (ii) CUT OFF GRADE, ULTIMATE PIT DEPTH PROPOSED : The steatite produced from this mine will be sold various industries, Paper Mills, Papermundry & 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%. The analysis report of High grade steatite shows that the MgO 32.48% to 33.25 %, SiO₂ 58.26% to 59.55 %, Al₂O₃ 0.75 % to 0.81%, Fe₂O₃ 0.60 % to 0.65 % and CaO 0.16 % to 0.19 %, Brightness is 78.55 % to 80.15 % and analysis report of Low grade Steatite MgO 22.38% to 26.15 %, SiO₂ 47.02% to 49.54 %, Al₂O₃ 1.47 % to 1.56%, Fe₂O₃ 0.12 % to 0.76 % and CaO 18.70 % to 20.40 %.
- 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 %. The analysis report of Dolomite shows that the and CaO 31.70 % to 32.40 % MgO 19.45% to 20.54 %, SiO₂ 2.98% to 3.58 %, Al₂O₃ 1.08 % to 1.13%, Fe₂O₃ 0.82 % to 0.96 % The analysis report of the Dolomite, High grade Steatite & Low grade Steatite is enclosed vide **Annexure-VI**.

- (iii) MINERAL BLOCKED DUE TO PRESENCE OF / MAINTENANCE OF BENCHES, BARRIERS, INTERNAL ROADS, ELECTRICAL LINES ETC :

The methods for the estimation for the reserves blocked under 7.5 m buffer line/ ultimate pit limit are calculated on the basis of cross sectional method with sectional influence of 50m. The cross sectional area of the ore zone is calculated by method of counting of squares. This multiplied with the length of the influence of the sections gives the volume of ore zone. The volume multiplied with the bulk density gives the tonnage of geological reserves. For the purpose of calculations, the bulk density of High Grade Steatite has been taken as 2.5 tonnes/cum & recovery 80%. Dolomite has been taken as 2.5 tonnes/cum & recovery 10% and Low grade Steatite has been taken as 2.5 tonnes/cum & recovery 5%. The Section wise calculation of blocked reserves are furnished as follows :

RESERVES BLOCKED IN SAFETY BARRIER							
PROVED							
X-Sec	X-Sec Area in Sqm	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	576	65	2	74880	149760	18720	9360
BB'	700	50	2	70000	140000	17500	8750
CC'	572	45	2	51480	102960	12870	6435
Total					392720	49090	24545

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PROBABLE							
X- Sec	X-Sec Area in Sq.m	X-sec Influence in M	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum
AA'	150	65	2	19500	39000	4875	2438
BB'	150	50	2	15000	30000	3750	1875
CC'	150	45	2	13500	27000	3375	1688
Total					96000	12000	6000

(iv) **TOTAL MINERAL RESERVES :**

Total Geological Reserves-Blocked Reserves = Mineable Reserves

Mineral	High Grade Steatite in tonnes	Dolomite in tonnes	Low grade steatite (Filler Grade) in tonnes
Geological Reserves	8190740	1023843	511922
Blocked Reserves	488720	61090	30545
Mineable Reserves	7702020	962753	481377

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 :**

The roof and floor constitutes with dolomitic limestone which is hard and compact in nature, and can sustain in the aspect of stability for underground workings, the nature & other geological parameters of the veins of the steatite are deciphered, considering moderate dips of the ore zone, narrow widths of the vein and the nature of the terrain, it is proposed to continue work the deposit with underground method.

The mine has total 12 incline haulage namely IH-1 to IH-12 in that IH-1, 3, 4 & 7 will be utilized as man way. The length of the inclines haulages and manways are 622 m and Levels length are 213 m and inter connection length are 262 m. The underground openings have exposed the steatite, dolomite & Low grade Steatite ore beds both along strike and dip direction. As seen from the present working in the lease area steatite veins are observed. As seen from the incline haulages the Steatite, Dolomite alternate band is exposed from 352m RL to 313m. Total 6 numbers of bore holes (DTH type) have been drilled in the area depth ranging from 30m to 35m. The present Underground working plan is prepared and enclosed vide Plate No 5. The support system will be implemented as per the systematic timbering rules. The timber support will be provided at appropriate places where the roof condition is bad. The seepage of water is almost negligible, the water table is about 70m below from the surface.

The workings are far above the water table. Even though for safety sake pumping is proposing at the bottom of the incline.

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Pumping will be carried on from underground to surface, the same water will be utilized for plantation. The systematic support Rules and the method of working application will be followed as per DGMS rules the same will be implemented in the mine.

PROPOSED PARAMETERS OF THE WORKING BENCHES :

Now same underground method of mining operation are proposed in the scheme period. This method and mode of operation is taken into account mainly for the interest of safe and scientific mining, conservation of mineral and protection of environment by consideration of all the parameters and the geological attitudes of the ore body.

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

Year	Pit No.	Total tentative Excavation (Cum)	Top Soil (Cum)	OB/SB/IB (Cum)	ROM (Cum)		Mineral reject	ROM/ Waste Ratio
					Ore (Cum)	Mineral reject (Cum)		
2019-20	1	2544	Nil	Nil	2417	127	Nil	1 : 0.05
2020-21	1	2228	Nil	Nil	2117	112	Nil	1 : 0.05
2021-22	1	2336	Nil	Nil	2219	117	Nil	1 : 0.05
2022-23	1	2530	Nil	Nil	2404	127	Nil	1 : 0.05

A systematic, 4 year production & development program has been planned for Mutchukota Steatite & Dolomite Mine. The proposed Production & Development calculation are as follows :

PRODUCTION & DEVELOPMENT OF STEATITE & DOLOMITE

2019-20								
	Length in m	Width in m	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum	Waste @ col no. 5* 0.05 *2 t/cum
Interconnection	239	2	2	956	1912	239	120	96
Level No.1	66	2	2	264	528	66	33	26
Level No.2	75	2	2	300	600	75	38	30
Level No.3	38	2	2	152	304	38	19	15
Level No.1c	46	2	2	184	368	46	23	18
Level No.2c	57	2	2	228	456	57	29	23
Level No.3c	55	2	2	220	440	55	28	22
Level No.1d	60	2	2	240	480	60	30	24
Total					5088	636	318	254

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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2020-21								
	Length in m	Width in m	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum	Waste @ col no. 5* 0.05 *2 t/cum
IH 5	10	3	2	60	120	15	8	6
IH 7	2	3	2	12	24	3	2	1
Interconnec tion	280	2	2	1120	2240	280	140	112
Level No.4	60	2	2	240	480	60	30	24
Level No.5	50	2	2	200	400	50	25	20
Level No.6	13	2	2	52	104	13	7	5
Level No.7	31	2	2	124	248	31	16	12
Level No.1a	11	2	2	44	88	11	6	4
Level No.2a	20	2	2	80	160	20	10	8
Level No.3a	20	2	2	80	160	20	10	8
Level No.4a	22	2	2	88	176	22	11	9
Level No.2d	50	2	2	200	400	50	25	20
Total					4456	557	279	223
2021-22								
	Length in m	Width in m	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum	Waste @ col no. 5* 0.05 *2 t/cum
IH 12	3	3	2	18	36	5	2	2
Interconnec tion	202	2	2	808	1616	202	101	81
Level No.1b	31	2	2	124	248	31	16	12
Level No.2b	41	2	2	164	328	41	21	16
Level No.3b	43	2	2	172	344	43	22	17
Level No.1d	55	2	2	220	440	55	28	22
Level No.2d	76	2	2	304	608	76	38	30
Level No.3d	68	2	2	272	544	68	34	27
Level No.4d	68	2	2	272	544	68	34	27
Total					4672	584	292	234
2022-23								
	Length in m	Width in m	Thickness in m	Volume in Cum	Qty of High Grade Steatite @ col no. 5* 0.8 *2.5 t/cum	Qty of Dolomite @ col no. 5* 0.1 *2.5 t/cum	Qty of Low Grade Steatite @ col no. 5* 0.05 *2.5 t/cum	Waste @ col no. 5* 0.05 *2 t/cum
IH 10	17	3	2	102	204	26	13	10
IH 11	2	3	2	12	24	3	2	1
Interconnec tion	263	2	2	1052	2104	263	132	105
Level No.3d	98	2	2	392	784	98	49	39
Level No.4d	120	2	2	480	960	120	60	48
Level No.5d	123	2	2	492	984	123	62	49
Total					5060	633	316	253

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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YEAR	PRODUCTION			DEVELOPMENT
	HIGH GRADE STEATITE	LOW GRADE STEATITE	DOLOMITE	
2019-20	5088	319	636	254
2020-21	4456	279	557	223
2021-22	4672	292	584	234
2022-23	5060	316	633	253
TOTAL	19276	1205	2410	964

(iii) DUMP MANAGEMENT :

The waste material that will be generated due to mining is dolomitic lime stone & phyllites. During the 4-year scheme period about 964 tonnes of waste material will be generated. In the lease area old dumps and open cast working pits are existing. For stabilization of this dump grass will be grown over the old dumps slope periodically.

YEAR	DEVELOPMENT
2019-20	254
2020-21	223
2021-22	234
2022-23	253
TOTAL	964

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

The steatite vein is exposed in the QL area. During the next 4 year scheme period existing incline haulages, interconnections & levels will be further extended. The interval between incline to incline is ranging from 14m to 38m, inter connection to interconnection 8 m to 10 m and level to level is 10m, where as surface to 1st level is 15m. The dimensions of interconnections and levels will be 2mx2m and incline haulage will be 3m x 3m. So that structural characteristics and configuration of the vein besides the normally anticipated improvement in quality of the deposit with depth will be known & facilitate systematic stopping. As only one shift is proposed to be worked and considering shortage of workers which is also affected seasonally & with back ground experience of mining in this area, it is expected that the minimum and maximum of 125m and 623m of progress could be achieved per year. With one driller in position, drilling in two faces will be done alternatively so that transport of blasted material to surface will be unhindered. A scheme of development as indicated below is drawn up for the next 4 years period (please see Plate No.6).

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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YEAR	INCLINE HAULAGE	INTERCONNECTIONS	LEVELS	TOTAL
2019-20	-	239	397	636
2020-21	12	280	277	569
2021-22	3	202	382	587
2022-23	19	263	341	623
TOTAL	34	984	1397	2415

The dimensions of Incline haulages are 3 m X 3m, & level & Inter connection will be 2m x 2m. During the plan period 2415 m of development will be done in Incline haulage, Interconnections & levels.

- (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 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 :**

The mode of entry is by inclines. Based on the occurrence of steatite, underground workings are proposed towards southern side and northern side of the lease area. Towards southern side underground working existing 6 Incline haulages will further extended and 7 levels and suitable interconnections are proposed. Towards northern side existing 4 incline haulages will be further extended, 5 levels and suitable interconnection are proposed. The underground workings will be further extending with suitable interconnection. Steps will be provided at incline haulage No. IH-1, IH-3, IH-4 & IH-7 treating as man way. Towards southern side Incline haulage IH-5, IH-8 & IH-12 northern side IH-10 & IH-11 will be connected, steps will be provided for the workers to enter into the mine as per the provision of regulation 73 of MMR 1961.

- (ii) **UNDER GROUND LAY OUT :** The size of the incline haulage will be 3mx3m and size of the interconnections and levels will be 2m x 2m. 7 levels and interconnections will be formed connecting all the inclines at 325m RL, to 315 m RL keeping 10m of level interval. Incline haulage No IH-1, 3 4 & 7 will be utilized as manway provided steps and Incline haulage No IH-5, 8, 10,11 & 12 will be utilized to transport of material from below ground to the surface. Regarding underground electrification, cap lamps will be provided. It is proposed to take due precautions for preventing the premature collapse of workings, by taking adequate steps like timbering and roof bolting as per the safety regulations. During development of the mine the following are kept in view.

**MINING SCHEME OF MUTHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

- (iii) **SYSTEM OF DRILLING & BLASTING :** For drilling purpose a stopper or air legs mounted jackhammer machine shall be used with the required motive power of compressed air (140cfm) supplied through a pipe line from surface. A wedge cut holes shall be practiced in development of levels and shafts using hand held pneumatic drill machine namely silver 30 holmanco with chisel type bit. The blasting operations will be done manually and the general pattern of holes is shown in **Annexure – VII**. The frequency of blasting with the number of holes blasted at a time being restricted to 10 holes will be so regulated that as far as possible vein matter and country rock are blasted separately. Blasting will be done two to three rounds and once a day (shift). The explosives used in the blast holes is formadyne in cartridges of 20cm length and 25mm dia initiated by detonator through waterproof plastic coated safety fuse. A total of 5 to 6kg of explosives will be consumed for each advance of face, the normal pull being 0.8m to 0.9m. All the regulations as per the MMR1961 & Indian Explosives act regarding storage & handling of explosives will be strictly followed. For each blasting around 0.8m of advancement will be achieved and the required explosives will be 5kgs. So for one blasting (2mx2mx0.8m) 2.25 cum of development will be achieved. During 4 years scheme period a total production & development in both inclines and levels will be 23,854 tonnes as explained in year wise production & development. So the required number of blasting will be $23,854/2.25 = 10602$ and explosives required will be $10602 \times 5\text{kg} = 53010\text{ kgs}$. For one year the required explosives will be $53010/5 = 10602\text{ kgs}$ & for one month $10602/12 = 883.5\text{ kgs}$ & for 1 day $884/26 = 34\text{kgs}$. A portable magazine of 50kgs is existing and sufficient and location of magazine as shown in Plate No. 3. Explosive Magazine licence copy is enclosed vide **Annexure-X**.
- (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 system of hoist will be by skips operating on an inclined haulage so that from pit top to pit bottom an inclined track line will be made & extended with progress of depth. In the below ground tram line with tubs will be provided in the levels and loaded tubs will be trammed from the working points manually to the haulage shaft bottom similarly pit top also surface track line & tipping tubs arrangements will be provided for handling of Steatite & Dolomite.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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Pit bottom lay out consist of loading arrangement at inclined haulage bottom connected with underground levels developed for transport of mineral to the surface (please see Plate No. 6).

- (vi) **SYSTEM OF WINDING/HOISTING** : Hoisting will be provided to transport the waste rock and mineral from the underground to the surface. Towards southern side of the underground workings the incline haulages IH-5, 8 & 12 and towards northern side incline haulages IH-10 & 11 are proposed to be provided equipped with 12HP engine coupled with winch and rope 5/8" diameter. In the haulage roadway 15kg/m of rails will be laid down in order to haul the waste & mineral. The gauge of the haulage track will be 2 feet wide. The capacity of the skip will be 0.75T. This will be sufficient for handling the waste & mineral of the mine.
- (vii) **SUBSIDENCE MANAGEMENT** : As the surface is covered by Dolomitic limestone and in this Steatite vein are passing so there is no loose formation in this start, even though the lessee as taken due care for subsidence management.
- (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 150m. Necessary devices will be provided where & when necessity arises during development and subsequent stages. Beyond the depth of 10m a mechanical ventilators are proposed to be placed in a fan drift close to incline haulage no. IH- 4, 7 & 11. 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. 7.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/S SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

- (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)	03
02	Jack hammers	06
03	Holst/Winder (12 HP) with skip	03
04	Mechanical Ventilator (5 Kw/25mm wg Exhaust fan)	03
05	Pumps (10 HP)	04
06	Tipping tubs (0.5 tonnes capacity)	08
07	Track line	600 m
08	Cap lamps	50 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 :** The QL area is almost gently slope towards south and north. 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.10). 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.10 to avoid the runoff water of monsoon entering the underground.
- b) **INDICATE MAXIMUM AND MINIMUM DEPTH OF WORKINGS :**
The maximum working RL is 352 m and minimum working RL is 313 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 :**
There is no much water will be accumulated. During rainy season seepage water will be generate at the bottom most levels. 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. Since the country rock is dolomitic limestone and impervious in nature, there will not be much ground water. Only at the contact of dolomitic limestone and phyllite which is fracture zone some ground water will be occurred and at the time of mining the quantity of ground water will be estimated & necessary arrangements will be provided for the dewatering purpose.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP. SRI PERAM NAGI REDDY, TADIPATRI.**

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 Agricultural 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	WASTE QUANTITY IN TONNES
2019-2020	254
2020-2021	223
2021-2022	234
2022-2023	253
TOTAL	964

The waste material that will be generated due to mining is dolomitic lime stone and phyllite. During the 4 year plan period about 964 tonnes of waste material will be generated. It is proposed to keep the height of the dump upto 6m. The coarse lumps of dolomitic lime stone shall be arranged as a pack wall like structure at dumps slopes bottom in order to avoid rolling down of waste material. For stabilization of this dump grass will be grown over the dumps slope periodically.

SELECTION OF SITE AND HEIGHT AND SPREAD OF STOCKS :

No sub-grade mineral is expected to be generated as all the steatite that will be produced shall be marketable.

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

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%.

The analysis report of High grade steatite shows that the MgO 32.48% to 33.25 %, SiO₂ 58.26% to 59.55 %, Al₂O₃ 0.75 % to 0.81%, Fe₂O₃ 0.60 % to 0.65 % and CaO 0.16 % to 0.19 %, Brightness is 78.55 % to 80.15 % and analysis report of Low grade Steatite MgO 22.38% to 26.15 %, SiO₂ 47.02% to 49.54 %, Al₂O₃ 1.47 % to 1.56%, Fe₂O₃ 0.12 % to 0.76 % and CaO 18.70 % to 20.40 %.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

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 %. The analysis report of Dolomite shows that the and CaO 31.70 % to 32.40 % MgO 19.45% to 20.54 %, SiO_2 2.98% to 3.58 %, Al_2O_3 1.08 % to 1.13%, Fe_2O_3 0.82 % to 0.96 % The analysis report of the Dolomite, High grade Steatite & Low grade Steatite is enclosed vide **Annexure-VI**.

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** : As at present small office, rest shelter, first aid room and urinal are existing within the lease area.

- b) **EMPLOYMENT POTENTIAL** :

Sl. No.	Particulars	Total No's
1	Mines Manager	1
2	Mine Supervisor	2
3	Semi Skilled	12
4	Un Skilled	35
Total		50

Since the winning of steatite mining involved manual, about 35 workers are employed. A Foreman permit manager, a part time mining engineer & one blaster, compressor operator, driller, helper and record keeper shall be employed to look after the safe conduct of mining operations. Proposed production and development is about 21 t/day taking 300 days/ annum. OMS is expected to be at 0.6 t. So the manpower required= $21/0.6=35$ persons. So 35 workers are sufficient to take care of the production & development. The mine shall work only during general shift between 8a.m to 5 p.m.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI PERAM NAGI REDDY, TADIPATRI.**

PART-B

PROGRESSIVE MINE CLOSURE PLAN :

1. ENVIRONMENTAL BASE LINE INFORMATION :

EXISTING LAND USE PATTERN :

Area Particulars	Existing Land use in Hect
Area under mining/Road	2.780
Storage for soil	0.000
Area under dumping	0.190
Mineral storage	0.012
Infrastructure (work shop, administrative building etc)	0.001
Area under Afforestation	0.670
GRAND TOTAL	3.653 Hect

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 3.25km away. No colony for workers/staff is envisaged as all of them will come from nearby villages. There is no displacement of any population from the area as no body stays within the area. The location of the villages, and their distance, population and direction is shown in Plate No.1

PUBLIC BUILDINGS, PLACES OF WORKSHIP AND MONUMENTS :

There are no public buildings and monuments, places of historic importance within the QL area. There are no parks, wild life, sanctuaries in the vicinity

SANCTUARIES :

There are no sanctuary near by the lease hold area.

ECO-SENSITIVE AREA ETC :

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

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP: SRI PERAM NAGI REDDY, TADIPATRI.**

2. IMPACT ASSESSMENT :

(a) LAND AREA :

Area Particulars	Existing Land use in Hect
Area under mining/Road	2.780
Storage for soil	0.000
Area under dumping	0.190
Mineral storage	0.012
Infrastructure (work shop, administrative building etc)	0.001
Area under Afforestation	0.670
GRAND TOTAL	3.653 Hect

(b) AIR QUALITY :

In general Mining activity contributes to pollution of air due to working of mining equipment transportation, and 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 lease 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. 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

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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(i) **SURFACE SUBSIDENCE :**

As it is small scale underground mine as the foot wall and hang wall was massive dolomitic limestone 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 5 villages falling within the buffer zone with a total population of 4730 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 QL 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 shafts and the connected pit top layout disturbing the land on the surface. After the mining through these shafts is over, the shafts shall have permanent walls built around them to protect persons and cattle falling into them. Around these shafts 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. The land use details as on date is given below, & the same is shown in Progressive Mine closure Plan. On stabilization afforestation will be done. Proposed construct Parapitwall around the pit. Proposed Parapitwall dimensions are follows:

The proposed Parapitwall and afforestation will be are as follows :

Proposed Parapitwall					Proposed Afforestation	
Year	Length in m	Width in m	Height in m	Location	Plantation in No	Location
2019-2020	50m	1.0m	1.5m	Bottom of the Dump slope side along the QL boundary	200	7.5 m Safety
2020-2021	50m	1.0m	1.5m		200	Barrier along the
2021-2022	50m	1.0m	1.5m		200	QL Boundary
2022-2023	50m	1.0m	1.5m		200	and old dumps

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.

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
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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 :

Wherever the 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 lease area there are no tailing dams, however the lessee has proposed to construct some check dams outside the lease 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.

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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.

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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 and 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 : Peddapappur (Mandal)

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

NAME & ADDRESS FOR CORRESPONDENCE

M/s Sri. Sai Minerals,

Prop : Sri. Peram Nagi Reddy

H.No. 15/591, Water Works Road,

Tadipatri – 515 411,

Ananthapuramu. Ph : 09908515133

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.

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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.

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 if any 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 & 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 23 (F) of MCDR 2017. The details breakup of the land is given in below. An Amount of Rs 1,00,000/- deposited as financial assurance towards 4.05 Hect and Bank Guarantee copy is enclosed Vide **Annexure-VIII.**

**MINING SCHEME OF MUTCHUKOTA STEATITE & DOLOMITE MINE OF
M/s SRI SAI MINERALS, PROP : SRI PERAM NAGI REDDY, TADIPATRI.**

**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	2.41	0.37	2.78	-	2.78
2	Storage for top soil	-	-	-	-	-
3	Waste Dump site	-	0.19	0.19	-	0.19
4	Mineral storage	0.012	-	0.012	-	0.012
5	Infrastructure (work shop, etc)	0.001	-	0.001	-	0.001
6	Roads	-	-	-	-	-
7	Tailing pond	-	-	-	-	-
8	Effluent treatment plant	-	-	-	-	-
9	Mineral separation plant	-	-	-	-	-
10	Others (Plantation)	-	0.67	0.67	-	0.67
11	Others (Future Use)	1.627	-	0.397	-	-
Grand total		4.05 Hect	1.23 Hect	4.05 Hect	-	3.653 Hect

M.RAMA SUBBA REDDY
RQP/DMG/HYD/59/2018

For M/s Sri Sai Minerals

Sri. Peram Nagi Reddy
Proprietor

This Mining Plan is approved subject to the
Conditions/Stipulations indicated in the Mining
Plan Approval Letter No. **1306/MS-TAP/2019**
Dated **27-06-2019**

Approved
P. RAJA BABU
Deputy Director of Mines & Geology
KURNOOL



ANNEXURE-5

GOVERNMENT OF ANDHRA PRADESH
PROCEEDINGS OF THE ASST. DIRECTOR OF MINES AND GEOLOGY, TADPATRI
(PRESENT: SRI V. S. N. Srinivas, Asst. Director)

PROCEEDINGS NO: 852/M2/2003

Dated: 12-09-03.

Sub: Mines & Minerals - Mining Lease for Steatite and Dolomite, over an extent of 4.05 Hect., in Compartment No:594/P and 596/P of Mutchukota (R.F.) - Padde Pappur (M), Anantapur (D) for a period of 20 years - Granted to M/s Sri Sai Minerals, Prop: Sri Peram Nagi Reddy - Mining Lease deed executed - Work Order - Issued.

Ref: 1. G.O. Ms. No: 245, Inds & Com. (M. III) Dept., Dt: 23.8.03.
2. This office Lr. No. 852/M2/03: Dt: 28.8.03.
3. Letter dated 10-09-2003 from the grantee.

ORDER:

The Government of Andhra Pradesh vide G.O. 1st cited, have granted a Mining Lease for Steatite and Dolomite over an extent of 4.05 Hect., in Compartment No:594/P and 596/P of Mutchukota (R.F.), Padde Pappur (M), Anantapur (D) for a period of 20 years in favour of M/s Sri Sai Minerals, Prop: Sri Peram Nagi Reddy, subject to condition that the applicant shall furnish the Forest Clearance for further period of 10 years after expiry of 10 years period.

Accordingly, this office vide reference 2nd cited has requested the grantee to attend for execution of the subject mining lease along with required documents within stipulated period under Rule 31(1) of M.C. (Amendment) Rules, 2000.

The grantee M/s Sri Sai Minerals, Prop: Sri Peram Nagi Reddy vide reference 3rd cited, while submitted required documents and attended this office for execution of the subject Mining Lease. The Mining Lease deed executed in Form-K on 12th September, 2003 as per Rule 31(1) of M.C. (Amendment) Rules, 2000.

Further this office Lr. No. 852/M2/03: Dt: 12.9.2003 has requested the Sub-Registrar, Tadpatri to register the subject lease deed Form-K, which is required under Rule 31(2) of M.C. (Amendment) Rules, 2000.

In the light of the circumstances stated above, M/s Sri Sai Minerals, Prop: Sri Peram Nagi Reddy is hereby permitted to commence the Mining operations in Compartment No:594/P and 596/P of Mutchukota (R.F.), Padde Pappur (M), Anantapur (D) over an extent of 4.05 Hect., for Steatite and Dolomite subject to the satisfaction of M.C. (Amendment) Rules 2000 and M.M. (R.D.) Act, 1957 and also to comply with the Government from time to time and with a condition that the lessee should furnish the Forest Clearance for further period of 10 years after expiry of the 10 years period for which Forest Clearance is accorded.

Sri Peram Nagi Reddy, is hereby instructed to submit the opening notice in Form-G, Monthly returns in Form-F, Annual returns in Form-H, regularly to all the concerned officials and also should maintain the correct accounts, daily production and despatches of the minerals in registers at the mine site. He is also hereby instructed to submit the related information in the prescribed progress as per the Mineral Conservation and Development, 1988.



..2..

The lessees should submit all the returns in prescribed forms from time to time to the Director, Dy. Director, Asst. Director of Mines & Geology, Hyderabad, Kurnool, Tadpatri, Controller of Mines, Naggur, Regional Controller, IBM, Hyderabad, Dy. Director of Mines Safety, Bellary and the Director of Mines Safety, Dhanbad under section 1676 of Indian Mines Act, 1952 (Act XXXV of 1952)

Long
Asst. Director of Mines & Geology
Tadpatri.

To

M/s Sri Sai Minerals,
Prop: Sri Perum Naji Reddy,
S/o Sri P. Nayana Reddy,
D.No. 15/591, Water Works Road,
TADPATRI, Anantapur(D)

Copy submitted to

The Secretary, Industries & Commerce (M.II) Dept., Hyderabad along with M. Memo through the Director of Mines & Geology, Hyderabad in triplicate for favour of information.
The Dy. Director of Mines & Geology, Kurnool along with M. Memo for favour of information.
The Controller of Mines, Naggur for favour of information.
The Director General of Mines Safety, Dhanbad for favour of information.
The Regional Controller of Mines Safety, Hyderabad for favour of information.
The Dy. Director of Mines Safety, Bellary for favour of information.
The District Collector, Anantapur for favour of information.
The District Forest Officer, Anantapur for favour of information.
Copy to the Mandal Revenue Officer, Pedda Peppur along with sketch for information.



ANNEXURE - 1A

FORM - K
MODEL FORM OF MINING LEASE
(See Rule 31)



This INDENTURE made this 12th day of Sep of 2002 (12-09-02) between the governor of Andhra Pradesh, the President of India (hereinafter referred to as the "State Government" which expression shall where the context so admits be deemed to include the successors and assigns) of the one part, and Shri. J. Jayaram Reddy, S/o. J. Jayaram Reddy, Prop. to Sri Sai Minerals, Or. No. 15(57) / Water works Road, Tadipatri

WHEN THE LESSEE IS AN INDIVIDUAL :

(Name of person with address and occupation) (Hereinafter referred to as "the lessee" which expression shall where the context so admits be deemed to include his respective heirs, executors, administrators, representatives and permitted assigns)

WHEN THE LESSEE ARE MORE THAN ONE INDIVIDUAL :

(Name of person with address and occupation) and (Name of person with address and Occupation) be deemed to include his respective heirs, executors, administrators, representatives and their permitted assigns.

WHEN THE LESSEE IS A REGISTERED FIRM :

(Name and address of partner), son of of S/o of all carrying on business in partnership under the firm name and style of (Name of the firm) Registered under the Indian Partnership Act, 1932 (9 of 1932) and having their registered office at in the town of (hereinafter referred to as "the licensee" which expression where the context so admits be deemed to include all the said partners their respective heirs, executors, legal representatives and permitted assigns.)

WHEN THE LESSEE IS A REGISTERED COMPANY :

(Name of company) a company registered under (Act under which incorporation) and having its registered office at (Address) (hereinafter referred to as the lessee which expression shall where the context so admits be deemed to include its successors and permitted assigns) of the other part.

Whereas the lessee/lessees has/have applied to the State Government in accordance with the Mineral Concession Rules, 1960 (hereinafter referred to as the said rules) for a mining lease for Water & Power in respect of the lands described in part I of the Schedule hereunder written and has/have deposited with the State Government the sum of Rs. 20000/- as security and the sum of Rs. 10000/- for meeting the preliminary expenses for a mining lease (and whereas the Central Government has approved the grant to the lease). * No. MII-152 (57)/61, Dt. 15-10-63).

For: Sri Sai Minerals

[Signature]
Proprietor

[Signature]
Assistant Director of Mines & Geology
Government of Andhra Pradesh
TADIPATRI

Witnesseth that in consideration of the rents and royalties covenants and agreements by and in these presents and the schedule hereunder written reserved and State Government (with the approval of the Central Government) hereby grants and demises unto lessee/lessees.

All those the mines beds veins seams of Andhra Pradesh (here State the mineral or minerals) (hereinafter and in the schedule referred to as the said minerals) situated, lying and being in or under the lands which are referred to in Part I of the said schedule, together with the liberties, powers and privileges to be exercised or enjoyed in connection herewith which are mentioned in Part III of the said Schedule subject to the restrictions and conditions as to the exercise and enjoy unit of such liberties powers and privileges which are mentioned in Part - III of the said schedule except and reserving out of this demise unto the State Government the liberties, powers and privileges mentioned in Part IV of the said schedule TO HOLD the premises hereby granted and demise unto lessee/lessees from the 1st day September 2003 for the term of 20 years thenca ensuing yielding and paying therefor unto the State Government the several rents and royalties mentioned in Part V of the said Schedule at the respective times therein specified subject to the provisions contained in Part VI of the said Schedule and the lessee/lessees hereby covenant/convenants with the State Government hereby covenants with the lessee/lessees as in Part VII of the said schedule as expressed and it is hereby mutually agreed between the parties hereto as in Part IX of the said Schedule is expressed.

In witness whereof these presents have been executed in manner hereunder appearing the day and year 1st above written.

PART - I

The area of this lease

LOCATION AND AREA OF THE LEASE :

All that tract of lands situated at Muthukula Vm (Description of area or areas), Muthukula A.P. in (Pargana) in Gooty Range the Registration District Sub-District and Thana bearing Cadastral Survey Nos. 5551 & 5561 containing an area of or thereabouts delineated on the plan hereto annexed and thereon coloured and bounded as follows :

On the North by

On the South by

On the East by

And

On the West by

hereinafter referred to as "the said lands"

As Shown in the Sketch

For Sel. Sel. Minerals

[Signature]

Department of Mines & Geology
Government of Andhra Pradesh
TADIPATRI.



PART - II

Liberties, powers and privileges to be exercised and enjoyed by the lessee/lessees subject to the restrictions and conditions in Part - I.

TO ENTER UPON LAND AND SEARCH FOR WIN, WORK ETC :

1. Liberty and power at all times during the term hereby demised to enter upon the said lands and to search for mine, bore, dig, drill or win, work-dress, process, convert, carry away and dispose of the said mineral/minerals.

TO SINK, DRIVE AND MAKE PITS SHAFTS AND INCLINES ETC :

2. Liberty and power for or in connection with any of the purposes mentioned in this part to sink, drive, make maintain and use in the said lands any pits shafts inclines drifts, levels, water-ways, air-ways and other works (and to use maintain deepen or extend any existing works of the like nature in the said lands.)

TO BRING TO USE MACHINERY EQUIPMENTS ETC :

3. Liberty and power for or in connection with any of the purposes mentioned in this part to erect, construct, maintain and use on or under the said lands any engines, machinery, plant, dressing floors, furnaces, coke ovens, brick-kilns, workshops, store-houses, bungalows, godowns, sheds and other buildings and other works and conveniences of the like nature on or under the said lands.

TO MAKE ROADS AND WAY ETC., AND USE EXISTING ROADS AND WAYS :

4. Liberty and power for or in connection with any of the purposes mentioned in this part to make any tramways, railways, roads, aircraft landing grounds and other ways in or over the said lands and to use maintain and go and repass with or without horses, cattle, Wagons, Air crafts locomotive or other vehicles over the same (or any existing tramways, railways roads and other ways in or over the said lands) on such conditions as may be agreed to.

TO GET BUILDING AND ROAD MATERIAL ETC. :

5. Liberty and power for or in connection with any of the purpose mentioned in this part to quarry and get stone gravel and other building and road material and clay and to use and employ the same and to manufacture such clay into bricks or tiles and to use such bricks or tiles but to sell any such material bricks or tiles.

TO USE WATER FROM STREAMS ETC. :

6. Liberty and power for or in connection with any of the purpose mentioned in this part but subject to the right of any existing or future lessees and with the written permission of Deputy Commissioner/Collector to appropriate and use water from any streams, water-courses-springs or other sources in or upon the said lands and to divert, step up or dam any such stream or water course and collect or impound any such water and to make construct and maintain any water-course, culverts, drains or reservoirs but not as to deprive any cultivated lands, villages, buildings or watering places for livestock of a reasonable supply of water as before accustomed nor in any way to foul or pollute any streams or springs : Provided that the lessee/lessees shall not interfere with navigation in any navigable stream nor shall divert such stream without the previous written permission of the State Government.

For: Sri Sai Minerals

M. S. R. S.
Proprietor

[Signature]
Assistant Director of Mines & Geology
Government of Andhra Pradesh

TADIPATRI.

TO USE LAND FOR STACKING, HEAPING, DEPOSITING PURPOSES :

7. Liberty and power to enter upon and use a sufficient part of the surface of such lands for the purpose of stacking, heaping, storing or depositing therein any produce of the mines or works carried on and any tools, equipment, earth and materials and substances dug or raised under the liberties and powers mentioned in this part.

BENEFICIATION AND COVERING AWAY OF PRODUCTION :

- 8.(a) Liberty and power to enter upon and use a sufficient part of the said lands to beneficiate any ore produced from the said lands and to carry away such beneficiated ore.

TO MAKE COKE (TO USED IN CASE OF COAL ONLY) :

- 8.(b) Liberty and power upon the said lands to convert coke any coal or coal dust produced from the said lands and to carry away such coke.

TO CLEAR BRUSHWOOD AND TO FELL AND UTILISE TREES, ETC :

8. Liberty and power for or in connection with any of the purposes mentioned in this part and subject to the existing rights of others and save as provided in clause 3 of the Part-III of this Schedule to clear under-growth and brushwood and to fell and utilise any trees or timber standing or found on the said lands provided that the State Government may ask the lessee/lessees to pay any trees to timber felled and utilised by him/them at the rates specified by the Deputy Commissioner/Collector or the State Government.

PART - III

Restrictions and conditions as to the exercise of the liberties, powers and privileges in Part - II

NO BUILDING ETC. UPON CERTAIN PLACES :

1. No building or thing shall be erected, set up or placed no surface operations shall be carried on, nor upon any public pleasure ground, burning or burial ground or place held sacred by any class of persons or any house or village site, public road or other place which the State Government may determine as public ground not in such a manner as to injure or prejudicially effect any buildings works property or rights of other persons and no land shall be used for surface operation which is already occupied by persons other than the State Government for works or purposes not included in this lease. The lessee/lessees shall not also interfere with any right of way, well or tank.

PERMISSION FOR SURFACE OPERATIONS IN A LAND NOT ALREADY IN USE :

2. Before using surface operations any land which has not already been used for such operations, the lessee/lessees shall give to Deputy Commissioner/Collector of the District two calendar months previous notice in writing specifying the name or other description of the situation and the extent of the land proposed to be so used and the purpose for which the same is required and the said land shall not be so used if objection is issued by the Deputy Commissioner/Collector within two months after the receipt by him of such notice unless the objections so stated shall on reference of the State Government be annulled or waived

For: Sri Sai Minerals

[Signature]
Proprietor

[Signature]
Assistant District Engineer & C
Government of Andhra Pradesh
TADIPATRI



TO CUT TREES IN UNRESERVED LANDS :

3. The lessee/lessees shall not without the express sanction of the Deputy Commissioner/Collector cut down or injure any timber or trees on the said lands but may without such sanction clear away any brushwood or under-growth which interferes with any operations authorised by these provisions. The Deputy Commissioner/Collector or the State Government may require the lessee/lessees to pay for any trees or timber felled and utilised by him/them at the rates specified by the Deputy Commissioner/Collector of the District.

TO ENTER UPON RESERVED FORESTS :

4. Notwithstanding anything in this Schedule contained, the lessee/lessees shall not enter upon any reserved forest included in the said lands without previous sanction in writing of the District Forest Officer nor fell cut and use any timber or trees without obtaining the sanction in writing of that Officer nor otherwise than in accordance with such conditions as the State Government may prescribe.

NO MINING OPERATIONS WITHIN 50 METERS OF PUBLIC WORKS, ETC. :

5. The lessee/lessees shall not work or carry on or allow to be worked or carried on any mining operations at or to any point within a distance of 50 meters from any railway line except with the previous written permission of the Railway Administration concerned or under or beneath any ropeway or any ropeway trestle or station, except under and in accordance with the written permission of the authority owning the ropeway or from any reservoir, canal or other public works such as public roads and buildings or inhabited site except with the previous written permission of the Deputy Commissioner/Collector or any other Officer authorised by the State Government in this behalf and otherwise than in accordance with such instructions, restrictions and conditions either general, or special which may be attached to such permission. The said distance of 50 meters shall be measured in the case of railway reservoir or canal horizontally from the outer toe of the bank or the outer edge of the cutting as the case may be and in case of building horizontally from the plinth thereof. In the case of village roads no working shall be carried with the previous permission of the Deputy Commissioner/Collector or any other officer duly authorised by the State Government in this behalf and otherwise than in accordance with such directions, restrictions and additions, either general or special, which may be attached to such permission. (No. 1 (51)/65-MII, dt. 26-2-69)

EXPLANATION : For the purposes of this clause, the expression "Railway Administration" shall have the same meaning as it is defined to have in the Indian railway act, 1890 by clause (6) of section 3 of that Act. "Public Road" shall mean a road which has been constructed by artificially surfaced as distinct from a track resulting from repeated use. Village road will include any track shown in the Revenue record as village road.

FACILITIES FOR ADJOINING GOVERNMENT LICENCES AND LEASES :

6. The lessee/lessees shall allow existing and future holders of Government licences or leases over any land which is comprised in or adjoins or is reached by the land held by the lessee/lessees reasonable facilities of access thereto :

For and on behalf of the

[Signature]
TADIPATRI

[Signature]
Assistant Director, Mines & Geol.
Government of Andhra Pradesh
TADIPATRI.

Provided that no substantial hindrance or interference shall be caused by such holders of licences or leases to the operations of the lessee/lessees under these presents and fair compensation (as may be mutually agreed upon or in the event of disagreement, as may be, decided by the State Government) shall be made to the lessee/lessees for loss or damage sustained by the lessee/lessees by reason of exercise of this liberty.

PART - IV

Liberties, power and privileges reserved to the State Government

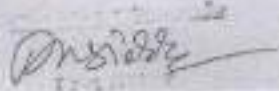
TO WORK OTHER MINERALS :

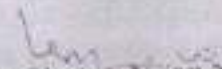
1. Liberty and power for the State Government or to any lessee or persons authorised by it in that behalf to enter into and upon the said lands and to search for, win, work, dig, get, raise, dress, process, convert and carry away minerals other than the said minerals and any other substances and for those purposes to sink, drive, make erect, construct, maintain and use such pits shafts, inclines, drifts, levels and other, lines, waterways, airways, water courses, drains, reservoirs, engine, machinery, plant, building canals, tramways, railways roadways and other works and conveniences as may be deemed necessary or convenient :

Provided that in the exercise of such liberty and power no substantial hindrance or interference shall be caused to or with the liberties, powers and privileges of the lessee/lessees under these presents and that fair compensation (as may be mutually agreed upon or in the event of disagreement as may be, decided by the State Government) shall be made to the lessee/lessees for all loss or damage sustained by the lessee/lessees by reason or in consequence of the exercise of such liberty and power.

TO MAKE RAILWAY AND ROADS :

2. Liberty and power for the State Government or any lessee or person authorised by it in that behalf to enter into and upon the said lands and to make upon over or through the same any railways, tramways, roadways, or pipelines for any purpose other than those mentioned in Part-II of the presents and to get from the said lands stones, gravel, earth and other materials, for making, maintaining and repairing such railways, tramways and roads or any existing railways roads and to go and re-pass at all times with or without horses, cattle or other animals, carts, wagons, carriages, locomotives, or other vehicles over or along any such railways road lines and other ways for all purposes and as occasions may require provided that in the exercise of such liberty and power by such other lessee or person no substantial hindrance or interference shall be caused to or with the liberties powers and privileges of the lessee/lessees under these presents, and that fair compensation as may be mutually agreed upon or in the event of disagreement as may be decided by the State Government shall be made to the lessee/lessees for all loss or damage substantial hindrance or interference shall be caused or our with the exercise by such lessee or person of such liberty and power.




Assistant Secretary to the Government of Andhra Pradesh
TADIPATRI



Rents and royalties reserved by this lease

TO PAY DEAD RENT OR ROYALTY WHICHEVER IS HIGHER :

1. The lessee shall pay for every year, except the first year of the lease, dead rent as specified in clause 2 of this part.

Provided that where the holder of such mining lease becomes liable under Section 5 of the Act, to pay royalty for any mineral removed or consumed by him or by his agent manager, employee, contractor, sub-lease from the leased area, he shall be liable to pay either such royalty or the dead rent in respect of the area, whichever is higher.

RATE AND MODE OF PAYMENT OF DEAD RENT :

2. Subject to the provisions of clause 1 of this Part, during the subsistence of the lease, the lessee/lessees shall pay to the State Government annual dead rent for the lands demised and described in Part-I of this Schedule the rate for the time being specified in the Third Schedule to the Act, in such manner, as may be, specified in this behalf by the State Government.

(Govt. Memo. No. 1997/MI/74-1, dated 5-6-74, published in Part I, Rules supplement to A.P. Gazette, dated 4-7-74.)

RATE AND MODE OF PAYMENT OF ROYALTY :

3. Subject to the provision of clause 1 of this Part, the lessee/lessees shall during the subsistence of this lease pay to the State Government may prescribe royalty in respect of any mineral/minerals removed by him/them from the leased area at the rate for the time being specified in the Second Schedule to the Mines and Minerals (Regulation and Development) Act, 1957.

PAYMENT OF SURFACE RENT, AND WATER RATE :

4. The lessee/lessees shall pay rent and water rate to the State Government in respect of all parts of the surface of the said land which shall from time to time be occupied or used by the lessee/lessees under the authority of these presents at the rate of Rs. *Rs. 100/-* and Rs. *Rs. 100/-* respectively per annum per hectare of the area so occupied or used and so in proportion for any area less than a hectare of the area so occupied or used and so in proportion for any area less than a hectare during the period from the commencement of such occupation or use until the area shall cease to be so occupied or used and shall as far as possible restore the surface land so used to its original condition. Surface rent and water rate shall be paid as herein before detailed in clause 2. Provided that no such rent/water rate shall be payable in respect of the occupation and use of the area comprised in the roads or ways to which the public have full right of access.

Assistant Director of Mines & Geology
Government of Andhra Pradesh
TADIPATRI.

PART - VI

Provisions relating to the rents and royalties

RENT AND ROYALTIES TO BE FREE FROM DEDUCTION ETC :

1. The rent, water rate and royalties mentioned in Part V of this Schedule shall be paid free from any deductions to the State Government at Rawalpindi and in such manner as the State Government may prescribe provided always and it is hereby agreed that Rs. the balance standing to the credit of the lessee/lessees on account of the deposit made by him/them as a licensee/licensees over an area which included the said lands shall be retained and accepted by the State Government in satisfaction of the rents and royalties mentioned in Part V until they reach that amount.

MODE OF COMPUTATION OF ROYALTY :

2. For the purpose of computing the said royalties the lessee/lessees shall keep a correct account of the mineral/minerals produced and despatched. The accounts as well as the weight of the mineral/minerals in stock or in the process of export may be checked by an officer authorised by the Central or State Government.

Here specify the mode of arriving at sale price/prices at pits mouth of mineral/minerals.

COURSE OF ACTION IF RENTS AND ROYALTIES ARE NOT PAID IN TIME

3. Should any rent, royalty or other sums due to the State Government under the terms and conditions of these presents be not paid by the lessee/lessees within the prescribed time, the same may be recovered together with simple interest due thereon at the rate of (twenty four per cent) per annum on a certificate of such officer as may be specified by the State Government by general or special order in the same manner as an arrear of land revenue.

PART - VII

The covenants of the Lessee/Lessees

LESSEE TO PAY RENTS AND ROYALTIES, TAXES ETC :

1. The lessee/lessees shall pay the rent, water rate and royalties reserved by this lease at such times and in the manner provided in Parts V & VI of these presents and shall also pay and discharged, all taxes, rates, assessments and impositions whatsoever being in the nature of public demands which shall from time to time, be charged assessed or imposed by the authority of the Central and State Governments upon or in respect of the premises and works the lessee/lessees in common with other premises and works of a like nature except demands for land revenues.

TO MAINTAIN AND KEEP BOUNDARY MARKS IN GOOD ORDER :

2. The lessee/lessees shall at his/their own expense erect and at all times, maintain and keep in repair boundary marks and pillars according to the demarcation to be shown in the plan annexed to this lease. Such marks and pillars shall be sufficiently clear of the shrubs and other obstructions as to allow easy identification.

For: President

[Signature]
President

Witnessed by Secretary
Government of Punjab
TADIFATRI



TO COMMENCE OPERATIONS WITHIN A YEAR AND WORK IN A WORKMAN LIKE MANNER :

3. (x x x) The lessee/lessees shall commence operation within one year from the date of execution of the lease and shall thereafter in all time during the continuance of this lease search for, in work and develop the said minerals without voluntary intermission in a skillful and workman like manner and as prescribed under clause 12 hereinafter without doing or permitting to be done any unnecessary or avoidable damage to the surface of the said lands or the crops, buildings, structures or other property thereon. For the purposes of this clause operations shall include the erection of machinery laying of a tram-way or construction of a road to connection with the mine.

TO INDEMNIFY GOVERNMENT AGAINST ALL CLAIMS :

4. The lessee/lessees shall make any pay such reasonable satisfaction and compensation, as may be, assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall identify and keep indemnified fully and completely the State Government against all claims which may be made by any person/persons in respect of any such damage injury or disturbance and all costs and expenses in connection therewith.

TO SECURE AND KEEP IN GOOD CONDITION PITS SHAFTS, ETC :

5. The lessee/lessees shall during the subsistence of this lease well and sufficiently secure and keep open with timber or other durable means all pits shafts and workings that may be made or used in the said lands and make and maintain sufficient fences to the satisfaction of the State Government round every such pit shaft or working whether the same is abandoned or not and shall during the same period keep all working in the said lands except such, as may be, abandoned accessible free from water and foul air as possible.

TO STRENGTHEN AND SUPPORT THE MINE TO NECESSARY EXTENT :

6. The lessee/lessees shall strengthen and support to the satisfaction of the Railway administration Concerned or the State Government, as the case may be, any part of the mine which in its opinion requires such strengthening or support for the safety of any railway, reservoir, canal, road and any other public works or structures.

TO ALLOW INSPECTION OF WORKINGS :

7. The lessee/lessees shall allow any officer authorised by the Central Government or the State Government in that behalf to enter upon the premises including any building excavation or land comprised in the lease for the purpose of inspecting examining surveying, (prospecting) and making plans thereof, sampling and collecting a data and the lessee/lessees shall with proper person employed by the lessee/lessees and acquainted with the mines and work effectually assisted the officer, agents, servants and workmen in conducting every such section and shall afford them all facilities, information connected with them the working of the mines which they may reasonably require and also shall and will conform to and observe all orders and regulations which the Central and State Governments as the result of such inspection or otherwise may, from time to time, deem fit to impose.

For: Sri Sai Minerals
[Signature]
Proprietor

[Signature]
Assistant Commissioner of Mines & Geology
Government of Madhya Pradesh
TADIPATRI,

**TO REPORT ACCIDENT :**

8. The lessee/lessees shall without delay send to the Deputy Commissioner/Collector a report of any accident causing death or serious bodily injury or serious injury to property or serious affecting or endangering life or property which may occur in the course of the operations under this lease.

TO REPORT DISCOVERY OF OTHER MINERALS :

9. The lessee/lessees shall report to the State Government the discovery in the leased area of any mineral not specified in the lease within sixty days of such discovery along with full particulars of the nature and position of each such find. If any mineral not specified in the lease is discovered in the leased area, the lessee/lessees shall not win and dispose of such mineral unless such mineral is included in the lease or a separate lease is obtained therefore.

TO KEEP RECORDS AND ACCOUNTS REGARDING PRODUCTION AND EMPLOYEES ETC :

10. The lessee/lessees shall at all time during the said term keep or cause to be kept at an office to be situated upon or near the said lands correct and intelligible books of accounts which shall contain accurate entries showing, from time to time :
1. Quantity and quality of the said mineral/minerals realised from the said lands.
 2. Quantity of the various qualities of ores beneficiated or converted (for example coal converted into coka)
 3. Quantities of the various qualities of the said mineral/minerals sold and exported separately.
 4. Quantities of the various qualities of the said mineral/minerals otherwise disposed of and the manner and purpose of such disposal.
 5. The prices and all other particulars of all sales of said mineral/minerals.
 6. The number of persons employed in the mines or works or upon the said lands specifying nationality, qualifications and pay of the technical personnel.
 7. Such other facts, particulars and circumstances as the Central or the State Governments may from time to time require and shall also furnish free of charge to such officers and at such times as the Central and State Governments may appoint true and correct abstract of all or any such books of accounts and such information and returns to all or any of the matters aforesaid as the State Government may prescribe and shall at all reasonable times allow such officers as the Central or State Governments shall in that behalf appoint to enter into and have free access the said officers for the purpose of examining and inspecting the said books of accounts, plans and records and to make copies thereof and make extracts therefrom.

TO MAINTAIN PLANS ETC :

11. The lessee/lessees shall at all times during the said term maintain at the mine office correct, intelligible, up-to-date and complete plans and sections of the mines in the said lands. They shall show all the operations, and workings and all the trenches, pits and drillings made by him/them in the course of operations carried on by him/

For Secy Mines
M. S. S. S.
Proprietor

Assistant Secretary to Government of Andhra Pradesh
TADIPATRI



them under the lease faults and other disturbances encountered and geological data and all such plans and sections shall be extended and filled up by and from actual surveys to be made for that purpose at the end of twelve months or any period specified, from time to time, & the lessee/lessees shall furnish free of charge to the central and the Governments true and correct copies of such plans and sections whenever required. Accurate records of all trenches pits and drillings shall show

- a) The sub-soil and strata through which they pass.
- b) Any mineral encountered.
- c) Any other matter of interest and all data required by the Central and State Governments, from time to time.

The lessee/lessees shall allow any officer of the Central or the State Government, authorised in this behalf by the Central Government to inspect the same at all reasonable time. He/They shall also supply when asked for by the state Government/ the Coal Controller/ the Director-General, Geological Survey of India/ the Controller, Indian Bureau of Mines a composite plan of area showing thickness, dip inclination, etc., of all the seams as also the quantity of reserves quality-wise.

- 11. A. The lessee shall pay a wage not less than the minimum wage prescribed by the Central or State Government from time to time.
- 11. B. The lessee shall comply with provisions of the (Mines Act, 1952 and Rules made thereunder)
- 11. C. The lessee shall take measures for the protection of environment like planting of trees, reclamation of land, use of pollution control devices; and such other measures as may be prescribed by the Central or State Government from time to time at his own expense.
- 11. D. The lessee shall pay compensation to the occupier of the land on the date and in the manner laid down in these rules.
- 11. E. The lessee shall, in the matter of employment give preference to the tribals and to the persons who become displaced because of the taking up of mining operations.

ACT 57 OF 1957

- 12. The lessee/lessees shall be bound by such rules as may be issued from time to time, by the Government of India under Section 18 of the Mines and Minerals (Regulation) and Development) Act, 1957, (Act 57 of 1957) and shall not carry on mining or other operations under the said lease in any way other than as prescribed under these rules.

TO PROVIDE WEIGHING MACHINE :

- 13. Unless specifically exempted by the State Government the lessee/lessees shall provide and at all times keep at or near the pit head or each of the pit heads at which the said minerals shall be brought to bank a properly constructed and efficient weighing machine and shall weigh or cause to be weighed thereon all the said minerals, from time to time, brought to bank sold, exported and converted and also the converted products and shall at the close of each day cause the total weights, ascertained by

For: Sri Sai Minerals
[Signature]
Proprietor

[Signature]
Asst. Secy. to Govt. of India & Chief
Government of Andhra Pradesh
TADIPATRI



such means of the said minerals, ores products raised, sold, exported and converted during the previous twenty-four hours to be entered in the aforesaid books of accounts. The lessee/lessees shall Permit the State Government at all times during the said term to employ any person or persons to be present at the weighing of the said minerals as aforesaid and to keep accounts thereof and to check the accounts kept by the lessee/lessees. The lessee/lessees shall give days previous notice in writing to the Deputy Commissioner/Collector of every such measuring or weighing in order that some officer on his behalf may be present thereat.

TO ALLOW TEST OF WEIGHING MACHINE :

14. The lessee/lessees shall allow any person or persons appointed in that behalf by the State Government at any time or times during the said term to examine and test every weighing machine to be provided and kept as aforesaid and the weights used therewith in order to ascertain whether the same respectively are correct and in good repair and order and if upon any such examination or testing any such weighing machine or weights shall be found incorrect or out of repair or order, the State Government may require that the same be adjusted, repaired and put in order by at the expense of the lessee/lessees and if such requisition be not complied with within fourteen days after the same shall have been made, the State Government may cause such weighing machine or weights to be adjusted, repaired, and put in order and the expense of so doing shall be paid by the lessee/lessees to the State Government on demand and if upon any such examination or testing as aforesaid any error shall be discovered in any weighing machine or weights to the prejudice of the State Government such error shall be regarded as having existed for three calendar months previous to the discovery thereof or from the last occasion of so examining and testing the same weighing machine and weights in case such occasion shall be within such period of three months and the said rent and royalty shall be paid and accounted for accordingly.

TO PAY COMPENSATION FOR INJURY OF THIRD PARTIES :

15. The lessee/lessees shall make and pay reasonable, satisfactory and compensation for all damage, injury or disturbance of person or property which may be done by or on the part of lessee/lessees in exercise of the liberties and power granted by these presents and shall at all times save harmless and keep indemnified the State Government from and against all suits claims and demands which may be brought or made by any person or persons in respect of any such damage, injury or disturbance.

NOT TO OBSTRUCT WORKING OF OTHER MINERALS :

16. The lessee/lessees will exercise the liberties and powers hereby granted in such manner as to offer no unnecessary or reasonably avoidable obstruction or interruption to the development and working within the said lands of any minerals not included in this lease and shall at all times afford to the Central and State Government and to the holders of prospecting licences or mining leases in respect of any such minerals or any minerals within any land adjacent to the said lands as the case may

For: Sri Sai Minerals
[Signature]
Proprietor

[Signature]
Assistant Director
Government of Karnataka
TADIPATRI

be reasonable means of access and safe and convenient passage upon and across the said lands to such miners for the purpose of getting working developing and carrying away the same and that the lessee/lessees shall receive reasonable compensation for any damage or injury which he/they may sustain by reason of or in consequence of the use of such passage by such lessees or holders of prospecting licences

TRANSFER OF LEASE :

17.(1) The lessee/lessees shall not, without the previous consent in writing of the State Government (No. 1 (33)/57-MII, dated 30-9-1968.)

- a) assign, sublet, mortgage or in any other manner transfer the mining lease or any right, title or interest therein; or
- b) enter into or make any arrangement, contract or understanding whereby the lessee/lessees will or may be directly or indirectly financed to a substantial extent by or under which the lessee's operations or undertaking will or may be substantially controlled by, any person or body of persons other than the lessee/lessees;

Provided that the State Government shall not give its written consent unless,

- a) the lessee has furnished an affidavit along with his application for transfer of the mining lease specifying therein the amount that he has already taken or proposes to take as consideration from the transferee;
- b) the transfer of the mining lease is to be made to a person or body directly undertaking mining operations.

(2) Without prejudice to the above provisions, the lessee/lessees may subject to the conditions specified in the proviso to Rule 35 of said rules, transfer this lease or any right, title or interest therein, to a person

who has filed an affidavit stating that he has filed upto date income tax returns, paid income tax assessed on him and paid the income tax on the basis of self assessment as provided in the Income Tax Act, 1961 (43 of 1961), on payment of five hundred rupees to the State Government.

Provided that the lessee/lessees shall make available to the transferee the original or certified copies of all plans of abandoned workings in the area and in a belt 65 meters wide surrounding it;

Provided further, that where the mortgagee is an institution or Bank or a Corporation specified in Schedule V, it shall not be necessary for any such institution Bank or Corporation to meet with the requirement relating to the income tax, and the said valid clearance certificate.

17.(3) The State Government may, by order in writing, determine the lease at any time, if the lessee/lessees has/have in the opinion of State Government committed a breach of any of the above provisions or has/have transferred the lease or any right, title or interest therein otherwise than in accordance with clause (2) :

Provided that no such order shall be made without giving the lessee/lessees a reasonable opportunity of stating his/their case.

For Secy to Govt

[Signature]

Assistant Director of Mines & Geology
Government of Andhra Pradesh
TADIPATRI.

NOT TO BE FINANCED OR CONTROLLED BY A TRUST, CORPORATION, FIRM OR PERSON :

18. The lease shall not be controlled and the lessee/lessees shall not allow themselves to be controlled by any trust, syndicate, corporation, firm or person except with the written consent of the Central Government. The lessee/lessees shall not enter into or make any arrangement compact or understanding whereby the lessee/lessees will or may be directly or indirectly financed by or under which the lessee's lessees operations or undertakings will or may be carried on directly or indirectly by or for the benefit of or subject to the control of any Trust, syndicate, corporation, firm or person unless with the written sanction given prior to such arrangement compact or understanding being entered into or made of the Central Government and any or every such arrangement compact or understanding as aforesaid (entered into or made with such sanction as aforesaid) shall only be entered into or made and shall always be subject to an express condition binding upon the other party or parties thereto that on the occasion of a state of emergency of which the President of India in his discretion shall be the sole judge it shall be terminable if so required in writing by the State Government and shall in the event of any such requisition being made be forthwith thereafter determined by the lessee/lessees accordingly.

LESSEES SHALL DEPOSIT ANY ADDITIONAL AMOUNT NECESSARY :

19. Whenever the security deposit of Rs. (2000/1000) or any part thereof or any further sum hereafter deposited with the State Government in replenishment thereof shall be forfeited or applied by the Central or State Government pursuant to the power hereinafter declared in that behalf the lessee/lessees shall deposit with the State Government such further sum as may be sufficient with the unappropriated part thereof to bring the amount in deposit with the State Government upto the sum of Rs. (2000/1000).

DELIVERY OF WORKING IN GOOD ORDER TO STATE GOVERNMENTS AFTER DETERMINATION OF LEASE :

20. The lessee/lessees shall at the expiration or sooner determination of the said term or any renewal thereof deliver upto the State Government all mines, pits, shafts, inclines, drift, levels, waterways, airways and other works now existing or hereafter to be sunk or made on or under the said lands except such as have been abandoned with the sanction of the State Government and in any ordinary and fair course of working all engines, machinery, plant, buildings, structures, other works and conveniences which at the commencement of the said term were upon or under the said lands and all such machinery set up by the lessee/lessees below ground which cannot be removed without causing injury to the mines or works under the said lands (except such of the same as may be with the sanction of the State Government have become disused) and all buildings and structures of bricks or stone erected by the lessee/lessees above ground level in good repair order and condition and fit in all respects for further working of the said mines and the said mineral.

For: 


Assistant Secretary
Government of Madhya Pradesh
TADIPATRI

RIGHT OF PRE-EMPTION

21. (a) The State Government shall from time to time and at all times during the said term have the right (to be exercised by notice in writing to the lessee/lessees) or pre-emption of the said minerals (and all products thereof) lying in or upon the said lands hereby demised or elsewhere under the control of the lessee/lessees and lessee/lessees shall with all possible expedition deliver all minerals or products or minerals purchased by the State Government under the power conferred by this provision in the quantities, at the times in the manner and at the place specified in the notice exercising the said right.
- (b) Should the right of pre-emption conferred by this present provision be exercised and a vessel chartered to carry the minerals or products thereof procured on behalf of the State Government or the Central Government be detained on demurrage at the port of loading the lessee/lessees shall pay the amount due to causes beyond the control of the lessee/lessees.
- (c) The price to be paid for all minerals or products of minerals take in pre-emption by the State Government in exercise of the right hereby conferred shall be the fair market price prevailing at the time of pre-emption provided that in order to assist in arriving at the said fair market price the lessee/lessees shall if so required furnish to the State Government for the confidential information of the Government particulars of the quantities, descriptions and prices of the said minerals or products thereof sold to other customers and of charters entered into for freight for carriage of the same and shall produce to such officer or officers as may be directed by the State Government original or authenticated copies of contracts and charter parties entered into for the sale or freightage of such minerals or products.
- (d) In the event of the existence of a state of war or emergency (of which existence the President of India shall be the sole judge and a notification to this effect in the Gazette of India shall be conclusive proof), the State Government with the consent of the Central Government shall from time to time and at all times during the said term have the right (to be exercised by a notice in writing to the lessee/lessees) forthwith take possession and control of the works plant, machinery and premises of the lessee/lessees on or in connection with the said lands or operations under this lease and during such possession or control the lessee/lessees shall conform to and obey all directions given by or on behalf of the Central Government or State Government regarding the use of employment of such works, plants, premises and minerals provided that fair compensation which shall determined in default of agreement by the State Government shall be paid to the lessee/lessees for all loss or damage sustained by him/them by reason or in consequence of the exercise of the powers conferred by this clause and provided also that the exercise of such powers shall not determine the said term hereby granted or affect the term and provisions of these present further than may be necessary to give effect to the provisions of this clause.

EMPLOYMENT OF FOREIGN NATIONAL :

22. The lessee/lessees shall not employ, in connection with the mining operations any person who is not an Indian national except with the previous approval of the Central Government.

For: Sri Sai Minerals

Proprietor

Assistant Secretary to Government of India
TADIPATRI

RECOVERY OF EXPENSES INCURRED BY THE STATE GOVERNMENT :

23. If any of works or matters which in accordance with the covenants in that behalf herein before contained are to be carried or performed by the lessee/lessees be not so carried out or performed within the time specified in that behalf, the State Government may cause the same to be carried out or performed and lessee/lessees shall pay the State Government on demand all expenses which shall be incurred in such carrying out or performance of the same and the decision of the State Government as to such expenses shall be final.

FURNISHING OF GEOPHYSICAL DATA :

24. The lessee/lessees shall furnish :

- (a) all geophysical data relating to mining fields or engineering and ground water surveys, such as anomaly maps, sections, plans, structures, contour maps, logging, collected by him/them during the course of mining operations to the Director-General, Geological Survey of India, Calcutta.
- (b) all information pertaining to investigations of radio active minerals collected by him/them during the course of mining operations to the Secretary, Department of Atomic Energy, New Delhi.

Data or information referred to above shall be furnished every year reckoned from the date of commencement of the period of the mining lease.

PART - VIII

The covenants of the State Government

LESSEE/LESSEES MAY HOLD AND ENJOY RIGHTS QUIETLY :

1. The lessee/lessees paying the rents, water rate and royalties hereby reserved and observing and performing all the covenants and agreements herein contained and on the part of the lessee/lessees to be observed and performed shall and may quietly hold and enjoy the rights and premises hereby demised for and during the term hereby granted without any unlawful interruption from or by the State Government, or any person rightfully claiming under it.

ACQUISITION OF LAND OF THIRD PARTIES AND COMPENSATION THEREOF :

2. If in accordance with the provision of Clause 4 of Part VII of the Schedule the lessee/lessees shall offer to an occupier of the surface of any part of the said lands compensation for any damage or injury which may arise from the proposed operations of the lessee/lessees and the said occupier shall refuse his consent to the exercise of the right and powers reserve to the State Government and demised to the lessee/lessees by these presents and the lessee/lessees shall report the matter to the State Government and shall deposit with it the amount offered as compensation and if the Central/State Government are satisfied that the amount of compensation offered is fair and reasonable or if it is not so satisfied and the lessee/lessees shall have deposited with it such further amount as the State and Central Governments shall consider fair and reasonable the State Government shall order the occupier to allow the lessee/lessees to enter the land to carry out such operations as may be necessary for the purpose of this lease. In assessing the amount of such compensation, the State Government shall be guided by the principles of the Land Acquisition Act.

For Secy to Govt
TADIPATRI

Assistant Director of Mines & Geology
Government of Andhra Pradesh
TADIPATRI



TO RENEW :

3. The mining lease is renewed in accordance with the provisions of the Act and the rules made thereunder.

Provided that the State Government may for reasons to be recorded in writing reduce the area applied for.

If the lease in respect of minerals specified in the First Schedule to the Act, renewal will be subject to the prior approval of the Central Government.

If the lessee/lessees be desirous of taking a renewed lease of the premises hereby demised or any part or parts of them for a further term from the expiration of the term hereby granted and is otherwise eligible, he/they shall prior to the expiration of the last mentioned term give to the State Government twelve calendar months previous notice in writing and shall pay the rents, rates and royalties hereby reserved and shall observe and perform the several covenants and agreements herein contained and on the part of the lessee/lessees to be observed and performed upto the expiration of the term hereby granted. The State Government on receipt of application for renewal, shall consider it in accordance with the provisions of the Act and the rules made thereunder, and shall pass orders as it deems fit. If renewal is granted, the State Government will at the expense of the lessee/lessees and upon his executing and delivering to the State Government its required counter-part thereof execute and deliver to the lessee/lessees a renewed lease of the said premises or part thereof for the further term of years at such rents, rates and royalties and on such terms and subject to such covenants and agreements, including this present covenant to renew as shall be in accordance with the Mineral Concession Rules, 1960, applicable to ~~Iron Ore~~ *Weld* (name of mineral) on the day next following the expiration of the term hereby granted.

LIBERTY TO DETERMINE THE LEASE :

4. The lessee/lessees may, at any time determine this lease by giving not less than 12 calendar months notice in writing to the State Government or to such officer, or authority as the State Government may specify in this behalf and upon the expiration of such notice provided that the lessee/lessees shall upon such expiration render and pay all rents, water rates, royalties, compensation for damages and other moneys which may then be due and payable under these presents to the lessor or any other person or persons and shall deliver these presents to the State Government then this lease and the said term and the liberties, powers and privilege hereby granted shall absolutely cease and determine but without prejudice to any right remedy of the lessor in respect of any breach of any of the covenants or agreements contained in these presents.

4. (A) The State Government may on an application made by the lessee permit him to surrender one or more minerals from his lease which is for a group of minerals on the ground that deposits of that mineral have since exhausted or depleted to such an extent that it is no longer possible to work the mineral economically, subject to the condition that the lessee

- a) makes an application for such surrender of mineral at least six months before the intended date of surrender; and

For **For All Minerals**

[Signature]
Proprietor

[Signature]
Assistant Secretary to Government
TADIPATRI

- b) gives an undertaking that he will not cause any hindrance in the working of the minerals so surrendered by any other person who is subsequently granted a mining lease for that mineral.

REFUND OF SECURITY DEPOSIT :

5. On such date as the State Government may elect within 12 calendar months after the determination of this lease or of any renewal thereof, the amount of the security deposit paid in respect of this lease and then remaining in deposit with the State Government and not required to be applied to any of the purposes mentioned in this lease shall be refunded to the lessee/lessees. No interest shall run on the security deposit.

PART - IX General Provisions

OBSTRUCTIONS TO INSPECTION :

1. In case the lessee/lessees or his/their transferee/assignee does/do not allow entry or inspection by the Officers authorised by the Central or State Government under clauses (i), (j) or (1) or sub-rule (1) of Rule 27 of said Rules, the State Government shall give notice in writing to the lessee/lessees requiring him/them to show cause within such time as may be specified in the notice why the lease should not be determined and his/their security deposit forfeited; and if the lessee/lessees fails/fail to show cause within the aforesaid time to the satisfaction of the State Government, the State Government may determine the lease and forfeit the whole or part of the security deposit.

PENALTY IN CASE OF DEFAULT IN PAYMENT OF ROYALTY AND BREACH OF COVENANTS :

2. If the lessee/lessees or his/their transferee or assignee makes/make any default in payment of rent for water rate or royalty as required by section 9 of the Act or commits a breach of any of the conditions and covenants other than those referred to in covenant (1) above, the State Government shall give notice to the lessee/lessees requiring him/them to pay the rent, water rate, royalty or remedy the breach, as the case may be, within sixty days from the date of receipt of the notice and if the rent, water rate and royalty are not paid or the breach is not remedied within such period, the State Government may without prejudice to any proceedings that may be taken against him/them determine the lease and forfeit the whole or part of the security deposit.

PENALTY FOR REPEATED BREACHES OF COVENANTS :

3. In cases of repeated breaches of covenants and agreements by the lessee/lessees for which notice has been given by the State Government in accordance with Clauses (1) and (2) aforementioned on earlier occasion the State Government without giving any further notice, may impose such penalty not exceeding twice the amount of the annual dead rent specified in Clause 2, Part V.

For: Sri Sai Minerals

[Signature]
Proprietor

[Signature]
Assistant Director of Mines & Geology
Government of Andhra Pradesh
TADIPATRI

**FAILURE TO FULFIL THE TERMS OF LEASES DUE TO "FORCE MAJEURE" :**

4. Failure on the part of the lessee/lessees to fulfil any of the terms and conditions of this lease shall not give the Central or State Government any claim against the lessee/lessees or be deemed a breach of this lease in so far as such failure is considered by the said Government to arise from force majeure, and if through force majeure the fulfillment by the lessee/lessees of any of the terms and conditions of this lease be delayed, the period of such delay shall be added to the period fixed by this lease. In this clause the expression "Force majeure" means act of God, war, insurrection, riot, civil commotion, strike, earthquake, storm, tidal wave, flood, lightning, explosion, fire and any other happening which the lessee/lessees could not reasonably prevent or control.

LESSEE/LESSEES TO REMOVE HIS/THEIR PROPERTIES ON THE EXPIRY OF LEASE :

5. The lessee/lessees having first paid and discharged rents, rates and royalties payable by virtue of these presents may at the expiration or sooner determination of the said term or within six calendar months thereafter (unless the lease shall be determined under Clauses 1 and 2 of this Part and in that case at any time not less than three calendar months not more than six calendar months after such determination) take down and remove for his/their own benefit all or any engines, machinery, plant, buildings, structures, tramways, railways and other work erections and conveniences which may have been erected, set up or placed by the lessee/lessees in or upon the said lands and which the lessee/lessees is/are not bound to deliver to the State Government under clause 20 Part VII of this Schedule and which the State Government shall not desire to purchase.

FORFEITURE OF PROPERTY LEFT MORE THAN SIX MONTHS AFTER DETERMINATION OF LEASE :

6. If at the end of six calendar months after the expiration or sooner determination of the said term under the provision contained in Clause 4 of Part VIII of this Schedule become effective there shall remain in or upon the said land any engines, machinery plants, buildings, structures, tramways, railways and other work erections and conveniences or other property which are not required by the lessee/lessees in connection with operations in any other lands held by him/them under prospecting licence or mining lease the same shall if not removed by the lessee/lessees within one calendar months after notice in writing requiring their removal has been given to the lessee/lessees by the State Government be deemed to become the property of the State Government and may be sold or disposed of in such manner as the State Government shall deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

NOTICES :

7. Every notice by these presents required to be given to the lessee/lessees shall be given in writing to such person resident on the said lands as the lessee/lessees may appoint for the purpose of receiving such notices and if there shall be no such ap-

For and on behalf of the Government

[Signature]
Secretary

[Signature]
Assistant Director of Mines & Geology
Government of Madhya Pradesh
TADIPATRI.

22

- In witness whereof these presents have been executed in the manner hereunder appearing the day and year first above written.

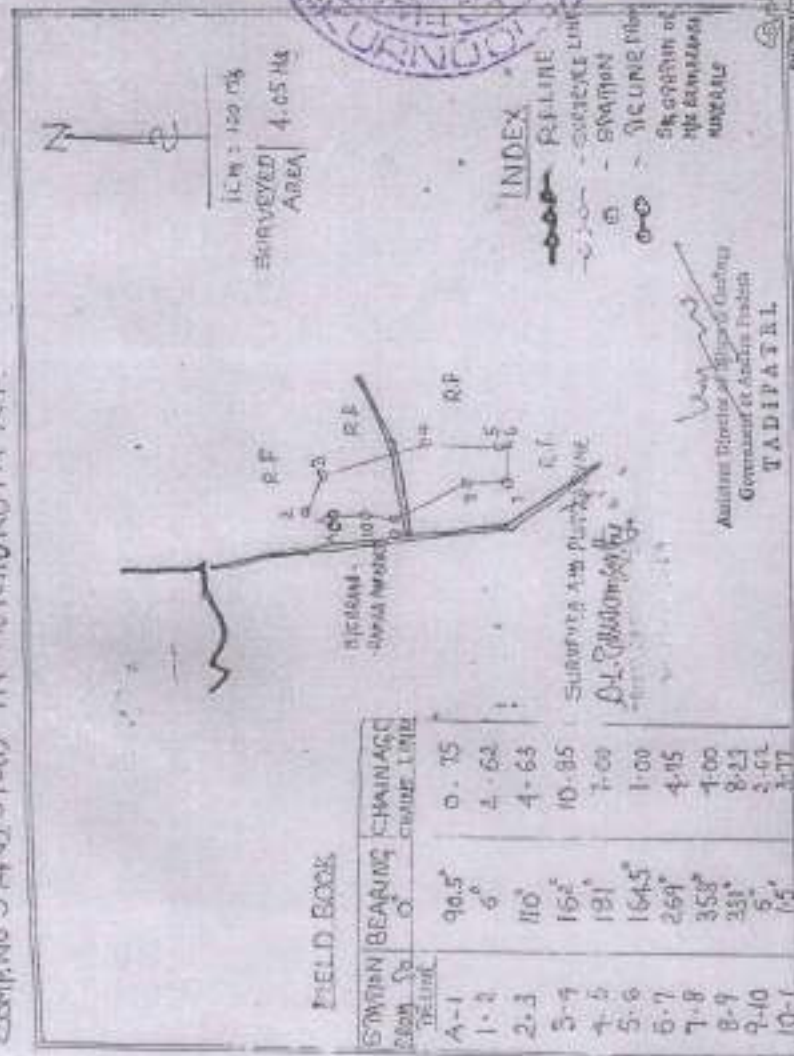
der appearing the day and year first above written.
but Director to mine and Catalog: To be done

Melissa
Proprietor

TADIFATBL

SURVEYED SKETCH OF 4.05 Ha PROPOSED MINING AREA TO PERAM
NAGI REDDY IN TAPU GHATVALU AND MOTU GHATVALU LOCATIONS
COMP. NO 594 (P) 596 (P) IN MURCHUKOTA R.F.

38-87



DISTRICT FOREST OFFICE
ANANTAPUR

For: District Engineer
Anantapur

COUNTER SIGNED,
Commissioner of Forests,
Anantapur District

For: District Engineer
Anantapur

ANNEXURE - II



भारत सरकार
GOVERNMENT OF INDIA
पर्यावरण एवं वन मंत्रालय
MINISTRY OF ENVIRONMENT & FORESTS
क्षेत्रीय कार्यालय (दक्षिण क्षेत्र)
Regional Office (Southern Zone)
केन्द्रीय सदन, चौथा तल, ई और एफ विंग
Central Sadan, IVth Floor, E & F Wings,
17 वां मेन रोड, दूसरा ब्लॉक, कोरमंगला
Main Road, II Block, Koramangala,
बैंगलूर - 560 034
Bangalore - 560 034

No.
तार : पर्यावरण, बैंगलूर
Telegram : PARYAVARAN
BANGALORE

दूरभाष :
Telephone :
फैक्स : 5537184
Fax : 080-5537184

No.F(C)A/11.2/84/AP/MIN 264
Date: 10.5.2002

To:
The Principal Secretary to Govt. of Andhra Pradesh,
Environment, Forests, Science & Technology Deptt.,
A.P. Secretariat,
Hyderabad.

Sub: Diversion of 4.05 ha of forest land in Mutchukota R.F., Anantpur District for mining lease for Steatite and Dolomite in favour of Sri. Perem Nagireddy of Sri Sai Minerals, Tadipatri.

Sir,
Kindly refer to the State Govt's letter No. 4516/For.I(1)/2001-3 dated 26.6.2001 seeking prior approval of the Central Govt. in accordance with Section '2' of Forest (Conservation) Act, 1980 for the above project. The Stage-I approval to the project was accorded vide letter of even no. dated 15.1.2002. The State Govt. vide letter No. 4516/For.I(1)/2001-5 dated 21.3.2002 and Principal Chief Conservator of Forests, A.P., vide letters No. 53773/2000/F.2 dated 17.4.2002 and 1.5.2002 have reported the compliance of the conditions stipulated in Stage-I approval.

After careful consideration of the proposal of the State Govt., I am directed to convey Central Govt's approval (Stage - II) for diversion of 4.05 ha of forest land in Department No. 594 (Part) and 596 (Part), Mutchukota R.F., Gooty Range, Anantpur District, for mining of Steatite and Dolomite in favour of Sri. Perem Nagireddy of Sri Sai Minerals, Tadipatri for a period of 10 years subject to the following conditions :-

- a) The legal status of forest land shall remain unchanged.
- b) The demarcation of 4.05 ha of forest area for mine shall be carried out by erecting cement concrete pillars duly numbered at an interval of 20 meters at the cost of user agency.
- c) The compensatory afforestation shall be raised over 4.15 ha of identified non-forest land at the cost of user agency. The non-forest land shall be declared as protected forest within a period of six months.
- d) The cost of fencing and regeneration of safety zone area and enrichment plantation in lieu of safety zone area shall be recovered from the user agency as per the guidelines issued under F(C) Act, 1980.





vii) Your attention is invited to the Hon'ble Supreme Court's Interim Order on WP(C) No. 202 dated 12.12.1996 for compliance. The approval of this Mining Plan is, therefore, issued without prejudice to and is subject to the said direction of the Hon'ble supreme Court as applicable in your case.

02. It is also clarified that the approval of your aforesaid mining plan does not in any way imply the approval of the government in terms of any other provisions of Mines and Minerals (Regulation and Development) Act, 1957 or the rules framed there under and any other laws.

Encl: Mining Plan containing
31 sheets, 4 Annexures & 9 Plates
(IN DUPLICATE)

Yours faithfully,

[Signature]
3/4/2007
(S.Tiu)

Regional Controller of Mines

Copy to:

- 1) The Dy. Director of Mines Safety, Bellary Region, 31, Infantry Road, Contonment, Bellary-583 104. (Karnataka) alongwith copy of approved mining plan.
- 2) The Director of Mines and Geology, Govt. of Andhra Pradesh, Hyderabad.
- 3) Sri N Gopinath, RQP H.No. 1-47/1, Old Bowenpally, Secunderabad - 11.



(S.Tiu)

Regional Controller of Mines



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Annexure-II

PROCEEDINGS OF THE DIVISIONAL FOREST OFFICER ANANTAPUR

PRESENT :- Sri T.V. Subba Reddy, I.F.S.,

Rc. No. 3092/2011/TO

Dt. 4.03.2012

Sub:-	Mines & Minerals - Renewal of mining lease over an extent of 4.05 Ha., for Steatite and Dolomite in Compartment Nos. 594/P & 596/P of Mutchukota RF Anantapur division in favour of M/s Sri Sai Minerals , Prop. Sri Peram Nagi Reddy - Permission accorded - Orders issued - Regarding.
Ref:-	1. GOI, Bangalore Lr.No.4-APB-881/2012-BAN/2918, Dt. 15.02.2013. 2. Govt of A.P. G.O.Ms. No. 20, EFS & T (For.I), Dept., dt: 01.03.2013. 1. Agreement executed by M/s Sri Sai Minerals , Prop. Sri Peram Nagi Reddy on 22.03.2013.

(1)

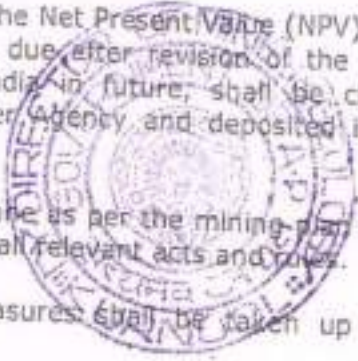
The Government of India in the reference 1st cited conveyed their approval U/s 2 of Forest (Conservation) Act, 1980 for diversion of 4.05 Ha., of forest land in Compartment Nos. 594/P & 596/P of Mutchukota Reserve Forest, Julakalva village for renewal of mining lease for a period of 10 years w.e.f. from 10.06.2012 in favour of **M/s Sri Sai Minerals**, Prop. Sri Peram Nagi Reddy for extraction of Steatite and Dolomite subject to certain conditions stipulated therein.

The Government of Andhra Pradesh in the reference 2nd cited have accorded permission for diversion of 4.05 Ha., forest land in Compartment Nos. 594/P & 596/P Mutchukota RF of Anantapur Division for granting of renewal of Mining lease in favour of **M/s Sri Sai Minerals**, Prop. Sri Peram Nagi Reddy for extraction of steatite and Dolomite subject to certain conditions stipulated therein.

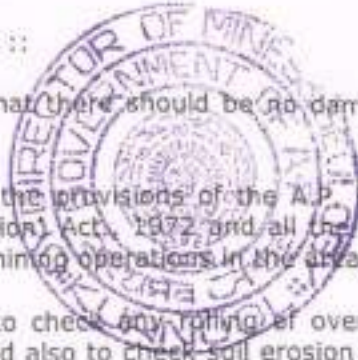
In pursuance of the Government of India and Government of Andhra Pradesh orders and as per the agreement executed by the user agency and basing on the production of Consent Order of Andhra Pradesh Pollution Control Board, Kurnool by the user agency, **M/s Sri Sai Minerals**, Prop. Sri Peram Nagi Reddy is hereby permitted to carry out mining operations in Compartment Nos. 594/P & 596/P Mutchukota RF of Gooty Range for extraction of Steatite and Dolomite as per surveyed sketch subject to the following conditions.

- (i) The legal status of the forest land shall remain unchanged.
- (ii) Duly numbered cement concrete boundary pillars shall be maintained at an interval of 20 meters at the cost of User Agency.
- (iii) The State Government shall maintain area upto 7.5 meters as safety zone all along the boundary outside the leased area, as per the guidelines issued under Forest (Conservation) Act, 1980. The fencing of safety zone area shall be carried out and it will be regenerated at the cost of user agency.

(Contd. ..2)

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- (iv) Additional amount of the Net Present Value (NPV) of the diverted forest land if any becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from User Agency and deposited in the Ad-hoc CAMPA Account.
 - (v) The mining shall be done as per the mining plan approved by IBM and in strict compliance of all relevant acts and rules.
 - (vi) Soil conservation measures shall be taken up at the cost of user agency.
 - (vii) Proper reclamation work shall be taken up as approved by the DFO, and its execution shall be monitored by the DFO.
 - (viii) The consent of Andhra Pradesh Pollution Control Board (APPCB) shall be obtained under Air and Water Act before commencement of mining operation and it shall be renewed annually.
 - (ix) No permanent buildings or sheds should be constructed in the leased area.
 - (x) A comprehensive monitoring shall be done at the end of five years to study the impact of mining on the surrounding flora and fauna and its watershed. If it is found that the lessee has violated or is not complying with the stipulated conditions, then the approval given under the Forest (Conservation) Act, 1980 shall be revoked.
 - (xi) The total forest area utilized for the project shall not exceed 4.05 ha.
 - (xii) Any other condition that the Additional Principal Chief Conservator of Forests (Central), Regional Office, Bangalore may impose from time to time for protection, improvement of flora and fauna in the forest area and public convenience shall also be applicable.
 - (xiii) The plan for enriching surrounding areas of the cluster of mines in Mutchukota RF by developing Green Belt/Enrichment plantation and SMC works shall be implemented at the cost of all lease holders proportionate to lease holding. The additional financial burden, if any needed for implementing the plan shall be recovered from lease holders on pro-rata basis.
 - (xiv) The forest area shall be used for the purpose of mining, storage of materials and OB dumps only.
 - (xv) The user agency shall take action for reclamation and rehabilitation of abandoned mines as per the action plan submitted by them,


(Contid. ...3)



- (xvi) The user agency shall ensure that there should be no damage to the wildlife.
- (xvii) The user agency has abide by the provisions of the A.P. Forest Act, 1967 and the Wild Life (Protection) Act, 1972 and all the rules made there under while carrying out mining operations in the area.
- (xviii) Adequate care shall be taken to check any piling of over burdens / dumps beyond diverted area and also to check soil erosion caused due to mining activities.
- (xix) No labour camps shall be established on the Forest land.
- (xx) The Forest Land shall not be used for any purpose other than that specified in the proposals and general approval accorded by the Government of India.
- (xxi) Transport of mineral shall be effected only under the cover of Form-I permits to the stockyard and to other places, which may be obtained from the undersigned. Transporting of the mineral must be covered by an individual permit. Any removal without permit shall be an offence under the A.P. Forest Act, 1967 and rules made there under.
- (xxii) The lessee or authorized agent shall personally supervise and control the working and transport. He shall be present whenever a notice is given by the Divisional Forest Officer, Anantapur / Forest Range Officer, Gooty or any other officer authorized by the Divisional Forest Officer, Anantapur for inspection of mining area subject to the provision that he may appoint agents to assist him in the work, but such persons may not be considered as agents until his name and category of working and residential addresses have been submitted to the Divisional Forest Officer, Anantapur and approved by the Divisional Forest Officer with a valid power of attorney.
- (xxiii) The lessee shall not allow the purchasers of forest produce into the mining area.
- (xxiv) Every employee of the lessee to whom authority is given for collection of produce shall be supplied with chits issued by the lessee or his authorized agents.
- (xxv) The lessee must allow or permit the officers of the Forest Department to enter into the land for the purpose of maintenance and repairs to boundaries within the area and pay the costs on such maintenance or repairs as determined by the Divisional Forest Officer, Anantapur.
- (xxvi) The lessee must take suitable precautions for prevention of fires in the forest area. If any fires accidentally occur, he must render all possible assistance in putting them out.

(Contid. ..4)

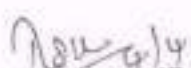
- (xxvii) The lessee shall abide by any other conditions imposed by the Chief Conservator of Forests (Central), Divisional Office, Bangalore / Pri. Chief Conservator of Forests, Andhra Pradesh, Hyderabad from time to time for protection and improvement of flora and fauna and in the interest of conservation of forests in the forest area.
- (xxviii) On breach of any of the above conditions while working in the leased area is liable to be suspended forthwith and the matter dealt with as per existing rules and regulations and that the matter will be reported to the Government for taking necessary action as deemed fit.
- (xxix) The boundary pillars so erected around the proposed mining area shall not be destroyed, shifted under any circumstances. Any shifting has to be with the prior permission of the Divisional Forest Officer or else the user agency will attract violation of the Forest (Conservation) Act, 1980.


Divisional Forest Officer,
Anantapur.

To
M/s Sri Sai Minerals,
Prop. Sri Peram Nagi Reddy,
16/1282-2,
Sreenivasapuram,
Tadipatri - 515 411.
Anantapur District.

Copy to the Forest Range Officer, Gooty for information and necessary action along with Photostat copy of the G.O. and copy of the agreement executed for necessary action. He should obtain copy of I.B.M. Plan and A.P. Pollution Board Certificate from the user agency and file them in his office for his guidance. The Forest Range Officer is requested to handover the area to the lessee as per the agreement conditions and as per the sketch. The certificate showing the dates of handing over and taking over of 4.05 Ha., of diverted forest land towards renewal of mining lease in Compartment Nos. 594/P & 596/P of Mutchukota Reserve Forest should be submitted forthwith. The Forest Range Officer shall monitor and supervise for proper implementation of the conditions stipulated in the G.O. as well as agreement and proceedings both by the user agency and the Department and report if any violations noticed and submit periodical report on implementation of the conditions regularly.

Copy to the Assistant Director of Mines & Geology, Tadipatri for information and necessary action.


Divisional Forest Officer
Anantapur.



Annexure-III

11

GOVERNMENT OF ANDHRA PRADESH

ABSTRACT

Forest Department - Diversion of 4.05 Ha. of Forest land for renewal of mining lease for Steatite and Dolomite in Mutchukota R.F., Anantapur Division, in favour of M/s. Sri Sai Minerals, Prop.: Sri Perum Nagi Reddy - Permission accorded - Orders - Issued.

ENVIRONMENT, FORESTS, SCIENCE & TECHNOLOGY (FOR.I) DEPARTMENT

G.O Ms. No. 20

Dated:01-03-2013,
Read the following:-

1. From PCCF, AP, Hyd. Lr.No.38695/2011/F2, Dt: 12.04.2012.
2. State Govt. Lr.No.2643/For.I (I)/2012, Dt. 4-5-2012.
3. From GOI, Mo.EF, Bgr. Lr.No.4-APB881/2012-BAN/1930, Dt:01-10-2012.
4. State Govt. Lr.No.2643/For.I (I)/2012, Dt:2-2-2013.
5. From GOI, Mo.EF, Bgr. Lr.No.4-APB881/2012-BAN/2918, Dt:15-02-2013.

ORDER:

The Principal Chief Conservator of Forests, Andhra Pradesh, Hyderabad in his letter 1st read above, has submitted a proposal under Forest (Conservation) Act, 1980, for diversion of 4.05 Ha. of Forest land for renewal of mining lease for Steatite and Dolomite in Mutchukota R.F., Anantapur Division, in favour of M/s. Sri Sai Minerals, Prop.: Sri Perum Nagi Reddy, and requested to forward the same to Government of India, Ministry of Environment & Forests, for according necessary approval under Section-2 of Forest (Conservation) Act, 1980.

2. The said proposal was sent to Government of India, Ministry of Environment & Forests, for their approval under Section-2 of Forest (Conservation) Act, 1980 vide State Government letter 2nd read above.

3. Government of India, Ministry of Environment & Forests, vide their letter 3rd read above, have accorded their approval in-principle (Stage.I) under Section-2 of Forest (Conservation) Act, 1980, for the proposal, for a period of 10 years, with effect from 10-6-2012, subject to compliance of certain conditions as stipulated therein.

4. The State Government vide letter 4th read above, have furnished compliance report on the conditions stipulated by the Government of India, Ministry of Environment & Forests, while according in-principle (Stage.I) approval.

5. Government of India, Ministry of Environment & Forests, in their letter 5th read above, have accorded their approval (Stage.II) under Section-2 of Forest (Conservation) Act, 1980, for diversion of 4.05 Ha. of Forest land for renewal of mining lease for Steatite and Dolomite in Mutchukota R.F., Anantapur Division, in favour of M/s. Sri Sai Minerals, Prop.: Sri Perum Nagi Reddy, for a period of 10 years, with effect from 10-6-2012, subject to compliance of certain conditions as stipulated therein.

6. Government after careful examination of the proposal, hereby accord permission to the Principal Chief Conservator of Forests, Andhra Pradesh, Hyderabad, for diversion of 4.05 Ha. of Forest land for renewal of mining lease for Steatite and Dolomite in Mutchukota R.F., Anantapur Division, in favour of M/s. Sri Sai Minerals, Prop.: Sri Perum Nagi Reddy, for a period of 10 years, with effect from 10-6-2012, subject to the following conditions.

- (i) The legal status of the forest land shall remain unchanged.

Contd...2



- (ii) Duty numbered cement concrete boundary pillars shall be maintained at an interval of 20 meters at the cost of User Agency.
- (iii) The State Government shall maintain area upto 7.5 meters as safety zone all along the boundary outside the leased area, as per the guidelines issued under Forest (Conservation) Act, 1980. The fencing of safety zone area shall be carried out and it will be regenerated at the cost of user agency.
- (iv) Additional amount of the Net Present Value (NPV) of the diverted forest land if any becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from User Agency and deposited in the Ad-hoc CAMPA Account.
- (v) The mining shall be done as per the mining plan approved by IBM and in strict compliance of all relevant acts and rules.
- (vi) Soil conservation measures shall be taken up at the cost of user agency.
- (vii) Proper reclamation work shall be taken up as approved by the DFO, and its execution shall be monitored by the DFO.
- (viii) The consent of Andhra Pradesh Pollution Control Board (APPCB) shall be obtained under Air and Water Act before commencement of mining operation and it shall be renewed annually.
- (ix) No permanent buildings or sheds should be constructed in the leased area.
- (x) A comprehensive monitoring shall be done at the end of five years to study the impact of mining on the surrounding flora and fauna and its watershed. If it is found that the lessee has violated or is not complying with the stipulated conditions, then the approval given under the Forest (Conservation) Act, 1980 shall be revoked.
- (xi) The total forest area utilized for the project shall not exceed 4.95 ha.
- (xii) Any other condition that the Additional Principal Chief Conservator of Forests (Central), Regional Office, Bangalore may impose from time to time for protection, improvement of flora and fauna in the forest area and public convenience shall also be applicable.

7. The Principal Chief Conservator of Forests, Andhra Pradesh, Hyderabad is directed to take further necessary action in the matter.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

M. SAMUEL,

SPECIAL CHIEF SECRETARY TO GOVERNMENT.

To

The Principal Chief Conservator of Forests,
Andhra Pradesh, Hyderabad.

Copy to:

The Chief Conservator of Forests (Central)
Government of India, Ministry of Environment & Forests,
Regional Office (Southern Zone) Kendriya Sadan, IV Floor E & F Wings,
17th Main Road, II Block, Koramangala, BANGALORE - 560 034.

M/s. Sri Sai Minerals, Prop.: Sri Param Nagi Reddy,
16/128-2, Sreenivasapuram, Tadipatri, Anantapur District - 515411.

SF/SC

// FORWARDED - BY ORDER //

SECTION OFFICER.

GOVERNMENT OF INDIA
MINISTRY OF MINES
INDIAN BUREAU OF MINES

Office of the Regional Controller of Mines

No.AP/ANP/MP/SI-30/Hyd

Kendriya Sadan, 1st Floor,
Sultan Bazar, Koti,
Hyderabad - 500 095.

Date: 24 APR 2007

To
Shri Peram Nagi Reddy,
Proprietor,
M/s Sri Sai Minerals,
H.No. 15/591, Water Works Road,
Tadapatri - 515 411
Anantapur District.

Sub: Approval of Modified Mining Plan for Sri Sai Steatite & Dolomite Mine, opencast to underground, over an area of 4.05 hect. in S.No. 574/P, Compartment No. 594/P & 596 of Mutchukota Reserve Forest Gooty Range, Anantapur District submitted under rule 10(1) of MCDR, 1988.

Ref: Your letter no.Nil dated 23.03.2007.

Dear Sir,

In exercise of the power conferred by sub rule (2) of rule 10 of Mineral Conservation and Development Rules, 1988, I hereby approve the above said mining plan. This approval is subject to the following conditions:

- This mining plan is approved without prejudice to any other laws applicable to the mine from time to time whether made by the Central Government, State Government or any other authority.
- The mining plan is approved without prejudice to any order or direction from any court of competent jurisdiction.
- Comments of the concerned Director of Mines Safety, if any, will be communicated to you in due course.
- Provisions of the Mines Act, 1952 and Rule and Regulations made thereunder including submission of notice of opening, appointment of Manager and other statutory officials as required by the Mines Act, 1952 shall be complied with.
- The execution of mining plan shall be subjected to vacation of prohibitory orders/notices, if any.
- If anything is found to be concealed as required by the Mines Act in the contents of the mining plan and the proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.





- vii) Your attention is invited to the Hon'ble Supreme Court's Interim Order on WP(C) No 202 dated 12.12.1996 for compliance. The approval of this Mining Plan is therefore, issued without prejudice to and is subject to the said direction of the Hon'ble supreme Court as applicable in your case.

02. It is also clarified that the approval of your aforesaid mining plan does not in any way imply the approval of the government in terms of any other provisions of Mines and Minerals (Regulation and Development) Act, 1957 or the rules framed there under and any other laws.

Encl: Mining Plan containing
31 sheets, 4 Annexures & 9 Plates
(IN DUPLICATE)

Yours faithfully,

[Signature]
3/4/2007

(S.Tiu)

Regional Controller of Mines

Copy to:

- 1) The Dy. Director of Mines Safety, Bellary Region, 31, Infantry Road, Contonment, Bellary-583 104. (Karnataka) alongwith copy of approved mining plan.
- 2) The Director of Mines and Geology, Govt. of Andhra Pradesh, Hyderabad.
- 3) Sri N Gopinath, RQP H.No. 1-47/1, Old Bowenpally, Secunderabad - 11.



(S.Tiu)

Regional Controller of Mines



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State Level Environment Impact Assessment Authority (SEIAA)

Andhra Pradesh

Government of India

Ministry of Environment & Forests

A-2, Industrial Estate, Sarvaahar, Hyderabad- 500 018.

RECEIVED WITH ACK. DUE

Order No. SEIAA/AP/ATP - 58/2013

Di: 23.10.2013

Sub: SEIAA, A.P. - 4.05 Ha. Steatite & Dolomite Mine of M/s. Sri Sai Minerals, Compartment No.594/P & 596/P of Mutchukota Reserve Forest, Peddapappur (M), Ananthapur District - Environmental Clearance - Issued - Reg.

- I. This has reference to your application submitted MoE to dt. 14.08.2013, seeking Environmental Clearance for the proposed Steatite & Dolomite Mine in favour of M/s. Sri Sai Minerals, Compartment No.594/P & 596/P of Mutchukota Reserve Forest, Peddapappur (M), Ananthapur District. It was reported that the nearest human habitation viz., Jula Kalva (V) exists at a distance of about 2.35 km from the mine lease area. It was noted that the capital investment of the project is Rs. 15.0 Lakhs and capacity of the project is as follows:

Mining of Dolomite	: 1031 TPA
Mining of Steatite	: 2498 TPA

- II. It is a semi mechanized underground mine. After breaking the mineral into required size by drilling and blasting, it is directly loaded into the trucks. No beneficiation of the ore / mineral is proposed. It is reported that the life of the Steatite Mine is estimated 22 years and Dolomite Mine is 36 years. The total mine lease area is 4.05 Ha.
- III. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof; & Office Memorandum dt. 18.05.2012 issued by the MoE&F, GOI. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meetings held on 28.08.2013. The project is exempted from the process of public hearing as the mining lease area is less than 25 Ha., in accordance with the guidelines approved by the SEIAA, AP for processing the applications of mining projects. Based on the information furnished, presentation made by the proponent and the environmental consultant M/s. Pioneer Enviro Laboratories & Consultants Pvt. Ltd., Hyderabad; The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on 09.10.2013 examined the proposal and the recommendations of SEAC and decided to issue Environmental Clearance. The SEIAA, A.P hereby accords **Environmental Clearance to the project as mentioned at Para no. I under the provisions of the EIA Notification 2006 and its subsequent amendments issued under Environment (Protection) Act, 1986 subject to implementation of the following specific and general conditions:**

A. Specific Conditions:

a) Air Pollution:-

- Wet drilling method shall be adopted to control dust emissions. Delay detonators and shock tube initiation system for blasting shall be used so as to reduce vibration and dust.
- Greenbelt shall be developed along the boundary of mining lease area with tall growing trees, with the native species in consultation with the local DFO/Agriculture Department.
- Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- The proponent shall take appropriate measures to ensure that the GLC shall comply with the revised NAAQ norms notified by MoE&F, GoI on 16.11.2009.

- v. The following measures are to be implemented to reduce air pollution during transportation of mineral:-
- Roads shall be graded to minimize the dust emission.
 - Water shall be sprayed at regular interval on the main haul road and other service roads by water sprinklers to suppress dust.
- vi. The following measures are to be implemented to reduce Noise pollution:-
- Proper and regular maintenance of vehicles and other equipment.
 - Limiting time exposure of workers to excessive noise.
 - The workers employed shall be provided with protection equipment and earmuffs etc.
 - Speed of trucks entering or leaving the mine is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
- vii. Measures should be taken to comply with the provisions laid under Noise Pollution (Regulation and Control) (Amendment) Rules, 2010; dt. 11.01.2010 issued by the MoEF, GOI to control noise to the prescribed levels. Workers engaged in operations of HEMM, etc should be provided with ear plugs/muffs.

b) Water Pollution:-

- i. The source of water is Bore well. Total water requirement is 5.0 KLD used for dust suppression, green belt and domestic purpose. Wastewater generated from the domestic section is to be disposed into septic tank followed by soak pit.
- ii. Garland drain and siltation ponds of appropriate size should be constructed for the working pit to arrest flow of silt and sediment. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains should be regularly desilted, particularly after monsoon, and maintained properly.
- iii. Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells by the project proponent in and around project area in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Data thus collected should be sent at regular interval to MoEF, CGWA and CGWB, Southern Region, Hyderabad.
- iv. Suitable conservation measures to augment groundwater resources in the area shall be planned and implemented in consultation with Regional Director, CGWB, Southern Region, Hyderabad. Suitable measures should be taken for rainwater harvesting.
- v. Permission from the competent authority should be obtained for drawl of ground water, if any, required for this project.

c) Solid Waste :-

- i. Topsoil, if any, shall be stacked properly with proper slope with adequate measures and should be used for plantation purpose.
- ii. The following measures are to be adopted to control erosion of dumps:-
 - Retention/bre walls shall be provided at the foot of the dumps.
 - Worked out slopes are to be stabilized by planting appropriate shrub/grass species on the slopes.
- iii. Waste oils, used oils generated from the EM machines, mining operations, if any, shall be disposed as per the Hazardous Wastes (Management, Handling, and transboundary movement) Rules, 2008 and its amendments thereof to the recyclers authorized by APPCB.

II. General Conditions:

- i. This order is valid for a period of 20 years OR the expiry date of mine lease period issued by the Government of A.P., whichever is earlier. It was reported that the life of the Steatite Mine is estimated 22 years and Dolomite Mine is 36 years.

- Consent for Establishment" & "Consent for Operation" shall be obtained from Andhra Pradesh Pollution Control Board under Air and Water Act to carry on mining.
- iii. No change in mining technology and scope of working should be made without prior approval of the SEIAA, A.P. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, A.P. MoEF, Govt, New Delhi, as applicable.
- iv. The half-yearly compliance reports in respect of the terms and conditions stipulated in this order & monitoring reports shall be uploaded in the website of the project periodically. It shall simultaneously be submitted in hard and soft copies to the SEIAA and Ministry's Regional office, Bangalore on 1st June and 1st December of each calendar year.
- v. Officials from the Regional Office of MoEF, Bangalore who would be monitoring the implementation of environmental safeguards should be given full co-operation, facilities and documents/data by the project proponents during their inspection. A complete set of all the documents shall be submitted to the CCF, Regional Office to MoEF, Bangalore.
- vi. Four ambient air quality-monitoring stations should be established in the core zone as well as in the buffer zone. Location of the stations should be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets and frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.
- vii. Data on ambient air quality should be regularly submitted to the Ministry including its Regional Office located at Bangalore and the State Pollution Control Board/ Central Pollution Control Board once in six months.
- viii. Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- ix. The project proponent shall ensure that no natural watercourse and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
- x. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
- xi. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
- xii. The funds earmarked for environmental protection measures (Capital cost & Recurring cost of Rs. 1.5 lakhs/annum) should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office located at Bangalore.
- xiii. The project proponent shall submit the copies of the environmental clearance to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.
- xiv. The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and SEIAA, A.P.
- xv. The SEIAA or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xvi. The proponent shall obtain all other mandatory clearances from respective departments.

- xvii. Environmental clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No.460 of 2004 as may be applicable to this project.
- xviii. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- xix. Concealing the factual data or failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
- xx. The SEIAA may revoke or suspend the order, if implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxi. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

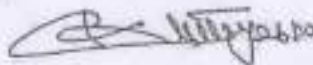
Sd/-
MEMBER SECRETARY
SEIAA, A.P.

Sd/-
MEMBER
SEIAA, A.P.

Sd/-
CHAIRMAN,
SEIAA, A.P.

To
Sri Peram Nagi Reddy, Proprietor,
M/s. Sri Sai Minerals,
(4.05 Ha. Steatite & Dolomite Mine),
H.No. 16/1282-2, Srinivasapuram,
Tadipatri-515411.
Ananthapur District.
Ph.No. 9848079397.

-//T.C.F.B.O.//-



Senior Environmental Engineer
(Unit - I)



**ANDHRA PRADESH POLLUTION CONTROL BOARD
ZONAL OFFICE: KURNOOL**

1st Floor, Shankar Shopping Complex, Krishna Nagar Main Road

Phone: 08518-235512

e-mail: jceazoknl@gmail.com

Order No. ATP-52/APPGB/ZO-KNL/CFO/2017- 565

Date: 23.08.2017

**AUTO RENEWAL OF CONSENT AND AUTHORIZATION ORDER FOR
OPERATION**

In response to your application dt. 16.08.2017 for Auto Renewal of Consent Order and Authorization order, the Board hereby extending validity period of Consent and Authorisation order issued vide order No. ATP-52/APPGB/ZO-KNL/CFO&HWM/2015 -358 dated 15.05.2015 valid upto 30.09.2017 for further period of 5 (FIVE) years i.e. upto 30.09.2022 under sections 25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and 21 of the Air (Prevention and Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous Waste and other wastes (Management and Transboundary Movement) Rules, 2016.

1. All other conditions mentioned in Schedule A,B &C of the Combined CFO &HWA order issued by the Board vide order dated 15.05.2015 remain same.
2. The Project authority shall comply with the standards issued by Ministry of Environment and Forest & Climate Change / CPCB from time to time.
3. The Project authority shall submit the compliance report on all the stipulated conditions of Consent for Operation (CFO) and HWA order to RO, Kurnool for every six months i.e. on 1st January and 1st July of the year.

To
M/s Sri Sai Minerals,
(Mine lease area - 4.05 Ha)
Sy.No.574, Mutchukota R.F.,
Peddapappur (M),
Anantapuram District.

Correspondence address:
M/s Sri Sai Minerals,
16/1282-2, Srinivasapuram,
Tadipatri - 515 411,
Anantapur District.

For A.P. Pollution Control Board

/ Copy to Environmental Engineer, Regional Office, Kurnool for information.



GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY

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

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

Sri M.Rams Subba Reddy, S/o M.Narasimha Reddy, H.No.2/131-3, Kronthi Nagar, Yerraguntla, Y.S.R.District, Andhra Pradesh whose photograph and signature is affixed herein above, having given evidence of his qualification and experience is hereby granted recognition under Rule 14(2) of Granite Conservation & Development Rules, 1999 as Recognized Qualified Person (RQP) to prepare Mining Plan.

Registration Number :

RQP/DMG/HYD/59/2018

This Recognition is valid for period of (10) years with effect from 23.04.2018.

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

Place: Hyderabad,
Date: 23.04.2018.


DIRECTOR OF MINES AND GEOLOGY



GEO-CHEM LABORATORIES PVT. LTD.
 Geo-Chem House
 294, Shri Sri Bhagat Singh Road,
 Fort, Mumbai 400001, India.
 Tel: 91 22 66363638 Fax: 491 22 66363600
 Mumbai@geochem.net.in
 74220640 944910013032

ANNEXURE VI

No. BEL/JP/18-19/001265/1-2

Date: 28.12.18

CERTIFICATE OF ANALYSIS

1. PARTICULARS OF SAMPLE : Submitted
 - a) Nature of Sample : Dolomite.
 - b) Name of the Party : M/S SRI.SAI MINERALS
PROP : SRI.PERAM NAGI REDDY.
 - c) Register No. : BEL/JP/18-19/ 001265/1-2
 - d) Date of Register : 20.12.18
 - 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	32.40 %	31.70 %
Magnesium Oxide	MgO	20.54 %	19.45 %
Silica	SiO ₂	03.58 %	02.98 %
Alumina	Al ₂ O ₃	1.13 %	1.08 %
Ferric Oxide	Fe ₂ O ₃	0.96 %	0.82 %
Loss on ignition	LOI	40.95 %	42.88 %

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. The certificate, which is issued on condition stipulated analysis, reflects our findings at the time and place of inspection / testing and does not relieve parties from their contractual obligations. Samples will be returned by us for a period of six 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 / certificate.





GEO-CHEM LABORATORIES PVT. LTD.
Geo-Chem House
294, Shrihari Bhagat Singh Road,
Fort, Mumbai-400001, India
+91 22 66383838 Fax: +91 22 66383800
mumbai@geochem.net.in
U74220MH11R64PR2313022

No. BEL/JB/18-19/001266/1-2

Date: 28.12.18

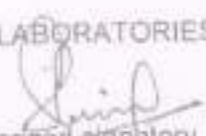
CERTIFICATE OF ANALYSIS

1. PARTICULARS OF SAMPLE : Submitted
 - a) Nature of Sample : Steatite.
 - b) Name of the Party : M/S SRI.SAI MINERALS
PROP : SRI.PERAM NAGI REDDY.
 - c) Register No. : BEL/JB/18-19/ 001266/1-2
 - d) Date of Register : 20.12.18
 - e) Mark : Sample No.1 & 2 (High Grade)
2. RESULTS OF ANALYSIS :

ANALYSIS ON SAMPLE DRIED AT 105°C

		Sample No.1 (High Grade)	Sample No. 2 (High Grade)
Magnesium Oxide	MgO	32.48 %	33.25 %
Silica	SiO ₂	59.55 %	58.26 %
Alumina	Al ₂ O ₃	0.81 %	0.75 %
Ferric Oxide	Fe ₂ O ₃	0.65 %	0.60 %
Calcium Oxide	CaO	0.19 %	0.16 %
Loss on ignition	LOI	4.50 %	4.29 %
Brightness		78.55 %	80.15 %

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. The certificate, which is issued on condition of receipt of correct, reflects our findings at the time and place of inspection / testing and does not release parties from their contractual obligations. Samples will be retained for 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.





GEO-CHEM LABORATORIES PVT. LTD.
Geo-Chem House,
254, Sharda Bhogar Singh Road,
Fort, Mumbai 400001, India.
Tel. +91 22 66383838 Fax +91 22 66383800
Email: mumbai@geochem.net.in
CIN: U74220MH1965PTC013022

No. BEL/JB/18-19/001267/1-2

Date: 28.12.18

CERTIFICATE OF ANALYSIS

1. PARTICULARS OF SAMPLE : Submitted
 - a) Nature of Sample : Steatite.
 - b) Name of the Party : M/S SRI.SAI MINERALS
PROP : SRI.PERAM NAGI REDDY.
 - c) Register No. : BEL/JB/18-19/ 001267/1-2
 - d) Date of Register : 20.12.18
 - e) Mark : Sample No 1 & 2 (Low grade No)
2. RESULTS OF ANALYSIS :

ANALYSIS ON SAMPLE DRIED AT 105°C

		Sample No.1 (Low Grade)	Sample No. 2 (Low Grade)
Magnesium Oxide	MgO	26.15 %	22.38 %
Silica	SiO ₂	47.02 %	49.54 %
Alumina	Al ₂ O ₃	01.47 %	01.56 %
Ferric Oxide	Fe ₂ O ₃	0.76 %	0.12 %
Calcium Oxide	CaO	18.70 %	20.40 %
Loss on ignition	LOI	5.65 %	5.85 %

FOR GEO-CHEM LABORATORIES PVT LTD

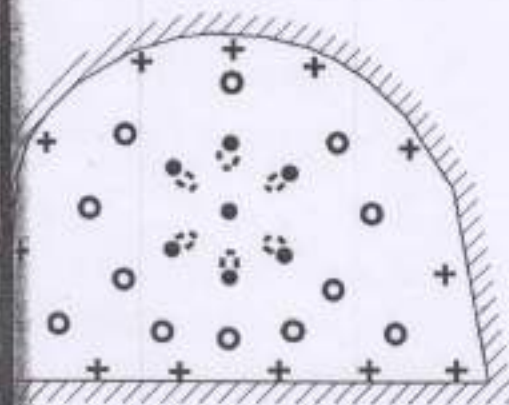
Authorized signatory

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

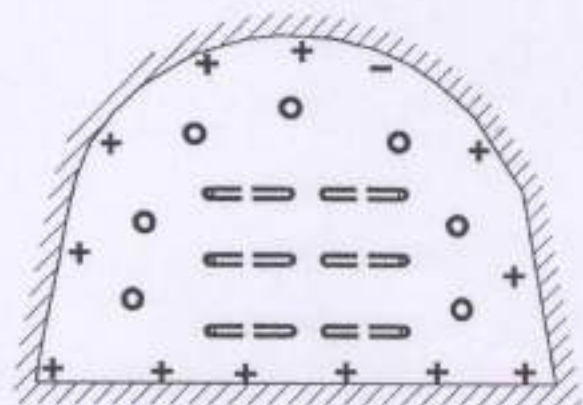


-vii
ANNEXURE - 7

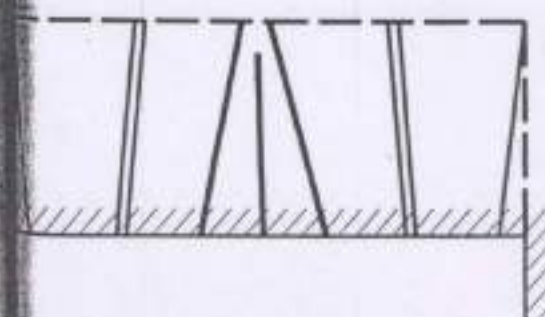
ETCH SHOWING WEDGE CUT DRILLING PATTERN



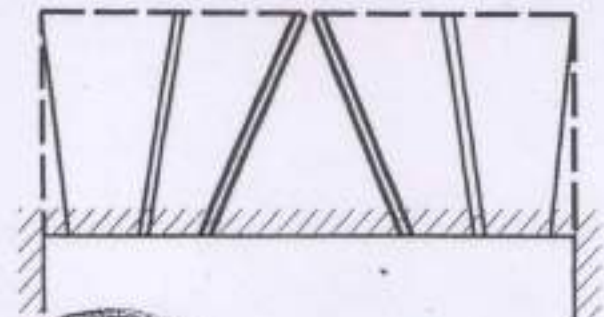
FACE AFTER FIRING



NEXT FACE



PYRAMID OR CONE CUT



WEDGE CUT





ANNEXURE-VIII

The Regional Controller of Mines,
Indian Bureau of Mines,
Hyderabad

Dear Sirs,

Bank Guarantee No. 10/2012
Amount of Guarantee Rs. 200000/-
Guarantee Period from 20.07.2012 to 31.03.2013
Last date for lodgment of claim 30.04.2013



This Deed of guarantee executed on 20th Day of July 2012 by Syndicate Bank, constituted under Banking Companies Act, 1970 having its Head office at Manipal, Udipi District, Karnataka and amongst other places, a branch at TADIPATRI (hereinafter referred to as the bank) in favour of the Regional Controller of Mines, Indian Bureau of Mines, Hyderabad (hereinafter referred to as the Beneficiary) for an amount not exceeding Rs.200000/- (Rs.Two lakhs only) at the request of Sri.Peram Nagi Reddy lessee and Proprietor of M/S SRI SAI MINERALS having office at TADIPATRI, Anantapur District (hereinafter referred to as the Contractor/s)

This guarantee is issued subject to the condition that the liability of the bank under this guarantee is limited to maximum of Rs.200000/- (Rs.Two lakhs only) and the guarantee shall remain in full force up to 31.03.2013 (date of expiry) and can be revoked on or before 30.04.2013 (date of claim) by the Regional Controller of Mines, Indian Bureau of Mines, Hyderabad in writing.

For Syndicate Bank

For Syndicate Bank
Manager
(TADIPATRI Branch)

For Syndicate Bank

For Syndicate Bank
Manager
(TADIPATRI Branch)





NO 3412
 13-01-2012
 ७०६३६६ आन्ध्र प्रदेश ANDHRA PRADESH (100/-)
 १. न्यायिक ३/४ २०००००/- रु. सि. ७



BANK GUARANTEE

1. Agreement on production of a Bank guarantee for Rs. 200000/- (Rs. Two lakhs only) under rule 23F of MCDR, 1988.
2. We SYNDICATEBANK, TADIPATRI at the request of Shri PERAM NAGI REDDY S/O Shri BAYYAPU REDDY (lessee) do hereby undertake to pay to the Regional Controller of Mines, Indian Bureau of Mines HYDERABAD or any other officer authority nominated by the Controller General, Indian Bureau of Mines an amount not exceeding Rs. 200000/- (Rs. Two lakhs only) against any loss or damage caused to or suffered or would be caused to or suffered by the Government or towards non compliance of provisions of Rule 23A, B and 23F of MCDR, 1988 i.e. Mine closure plan/progressive mine closure plan approved in respect of the mining lease for STEATITE AND DOLAMITE (ore/gres) over an area of 4.05 Hectare granted by State Government to Shri. PERAM NAGI REDDY S/O BAYYAPU REDDY (lessee) situated in MUTCHKOTA (RF) Village PEDDAPAPPER MANDAL ANANTAPUR District ANDHRA PRADESH State by reason of any breach of the said lessee of any of the terms or conditions contained in the Mine closure plan/progressive mine closure plan.

For Syndicate Bank

Manager
 तदपट्टि / TADIPATRI - 515 411

For Syndicate Bank

Manager
 तदपट्टि / TADIPATRI - 515 411

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205
We, SYNDICATEBANK, TADIPATRI do hereby undertake to pay the amount due and payable under this guarantee without any demur to the authority merely on a demand from the Regional Controller of Mines, Indian Bureau of Mines HYDERABAD or any other authorized by the Controller General, Indian Bureau of Mines stating that the amount claimed is due by way of loss or loss of damage caused to or would be caused to or suffered by the government by reason of breach by the said lessee or any of the terms or conditions contained in the mining plan/mining scheme or by reason of lessee's failure to perform the said mine closure plan/progressive mine closure plan. Any such demand made on the bank under this guarantee. However our liability under this guarantee shall be restricted to an amount not exceeding Rs.200000/- (Rs Two lakhs only).

We undertake to pay to the authority on a demand from the Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD or any other officer authorized by the Controller General, Indian Bureau of Mines or Govt. of India any money so demanded notwithstanding any dispute or disputes raised by the lessee in any suit or proceedings pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal, to the extent of Rs.200000/- (Rupees Two lakhs only).

The payment so made by us under this bond shall be valid discharge of our liability for payment there under and lessee shall have no claim against us for making such payment.

We, SYNDICATEBANK, TADIPATRI further agree that the guarantee herein contained shall remain in full force and effect during the period up to 31.03.2013 that would be taken for performance of the said Agreement and that shall continue to be enforceable till all the dues of the Govt. under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged till Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD or any other officer authorized by the Controller General, Indian Bureau of Mines certifies that the terms and conditions of the said progressive mine closure plan/final mine closure plan have been fully and properly carried out by the said lessee and accordingly discharge this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before 30.04.2013, we shall be discharged from all liability under this guarantee thereafter.

We further agree that Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD or any other officer authorized by the Controller General, Indian Bureau of Mines shall have fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said lessee from time to time or to postpone for any time or from time to time any powers exercisable by Regional Controller of Mines, HYDERABAD against the said lessee and to forbear or enforce any of the terms and conditions relating to the said agreement, we shall not be relieved from our liability by reason of any such variation or extension being granted to the said lessee or for any forbearance, act or omission on the part of Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD or any indulgence by Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD to the said lessee or any manner or thing whatsoever which under the law relating to sureties, would but this provision have effect of so relieving us.



कुते सिंडिकेटबैंक
For Syndicate Bank

प्रबंधक / Manager
TADIPATRI - 615 41



सिंडिकेटबैंक
For Syndicate Bank

प्रबंधक / Manager
TADIPATRI - 615 41

7. This guarantee will not be discharged due to change in constitution of the bank or lessee.

8. We, SYNDICATEBANK, TADIPATRI, hereby undertake not to revoke this guarantee during its currency except with the previous consent of the Regional Controller of Mines, Indian Bureau of Mines, HYDERABAD in writing.

9. Notwithstanding anything contained herein :

- a) Our liability under this Bank guarantee shall not exceed Rs. 200000/- (Rs. Two lakhs only)
- b) The bank guarantee shall be valid up to 31.03.2013 (date of expiry guarantee).
- c) We are liable to pay the guarantee amount or any part thereof under this Bank guarantee and only if serve upon us a written claim or demand on or before 30.04.2013 (date of expiry of Claim period).

10. If the bank guarantee is to be en-cashed through the court, in that case the (city where Regional office, IBM is located) court will have jurisdiction.

11. In witness whereof, the bank through its authorized officers have set its hand and stamp on this 20th Day of JULY 2012 at TADIPATRI.

For SyndicateBank

Manager

TADIPATRI - 515 411

For SyndicateBank

TADIPATRI - 515 411



AP

oto no.2 st
ne area.

oto no.4 st
namic vie

MINE PHOTOGRAPHS

ANNEXURE — 1X



BOUNDARY POINT



BOUNDARY POINT

MINE PHOTOGRAPHS



BOUNDARY POINT





UNDER GROUD WORKINGS



BORE HOLE DRILLED



UNDER GROUD WORKINGS WITH ALTERNATED BANDS OF DOLOMITE & STEATITE



PLANTATION ON 7.5 M BUFFER AREA/ ROAD SIDE/ DUMP AREA



PLANTATION ON 7.5 M BUFFER AREA/ ROAD SIDE/ DUMP AREA



PLANTATION ON 7.5 M BUFFER AREA/ ROAD SIDE/ DUMP AREA



ANNEXURE-8

भारत सरकार | Government of India
वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industries
एक्सप्लोसिव्स सुरक्षा संगठन (पब्लिक) | Explosives Safety Organisation (PESO)
पूर्व नाम: एक्सप्लोसिव्स नियंत्रण संगठन | Formerly: Explosives Control Organisation
ओ.ए. 8-14-11, फोन नं. 7-28-11
विक्रमपुरी रोड, उत्तर विशाखापट्टनम | Vikramপুরi Road, Udaipur, Odisha 751017
फोन (फ़ोन) - 2722258 | फ़ैक्स (फ़ैक्स) - 2722259
ई-मेल Email: dyccvzagar@explosives.gov.in

संख्या (No.) E/SC/AP/22/808(E28534)

दिनांक (Date) 18/04/2019

सेवा में | To,

18 APR 2019

Shri P. Nagireddy Proprietor M/s Sri Sai Minerals,
15-621, Waterworks Road, Tanna Village - Tadipatri
District-ANANTAPUR, State-Andhra Pradesh, Pincode - 515411

विषय | Survey No(s) 574, ग्राम Machkunta village, Peddapur mandal, जिला ANANTAPUR, राज्य Andhra Pradesh में विस्फोटक के भंडारण में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत L.E-3 में जारी अनुमति सं E/SC/AP/22/808(E28534) के जारीकरण संदर्भ में।

Subject | Possession for Use of all Explosives from magazine situated at Survey No(s) 574, Machkunta village, Peddapur mandal, Dist ANANTAPUR, Andhra Pradesh - Licence No: E/SC/AP/22/808(E28534) granted in Form L.E-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या - दिनांक 18/04/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्रत्येक L.E-3 में जारी अनुमति दिनांक 31/3/2024 तक मजबूतीपूर्ण कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No. dated: 18/04/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form L.E-3 of Explosives Rules, 2008 is forwarded herewith.

अनुमति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2024 से पहले इस कार्यालय को भेजी जाएं।

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2024.

- प्रारूप आरई-1 में विहित पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुमति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम अतिरिक्त संपुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable in Chennai.
- अनुमति पत्र के साथ मूल अनुमति।
Original licence with approved copy.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंस्टेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (अतिरिक्त शीटें सौदा के लिए लागू नहीं)।
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office (Not applicable for fireworks store house).
- कृपया विस्फोटकों की वार्षिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (अतिरिक्त शीटें सौदा के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter (Not applicable for fireworks store house).
- शमी ब्लॉस्टिंग ऑपरेशन एक सहाय द्वाारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फ़ायर परमिट प्राप्त कर रहे हों। हालांकि, खान अधिनियम 1952 के अधिनियम आने वाले खानों में ब्लॉस्टिंग ऑपरेशन करने वाले प्लेसटर की योग्यता उसी अधिनियम से निर्धारित होगी।
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

आपके खाते में रु. 600/- की राशि शेष है जो इस संदर्भ में उद्धृत करते हुए भविष्य के संयोजन में समायोजित की जा सकती है।

An amount of Rs. 600/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

J. Sarkar

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
विशाखापट्टनम | Visakhapatnam

प्रतिनिधि पेशित | Copy Forwarded to:

1. जिला मजिस्ट्रेट (District Magistrate), ANANTAPUR (Andhra Pradesh)- सूचना के लिए (for information.)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
विशाखापट्टनम | Visakhapatnam

(अधिक जानकारी जैसे आवेदन की स्थिति शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

Licence Endorsed under Rule 107(3) of Explosives Rules, 2008
By Shri A. V. Subbarao, Deputy Chief Controller of Explosives, South Circle, Chennai (03/03/2006)

अनुमति पत्र, एन. ई. 3, LICENCE FORM LE-3

(विस्फोटक मिश्रण और सुरक्षा तंतु) (Nitre and Safety Fuse) (प) (P)

(See article 107(3) of the Explosives Rules, 2008)

(ग) उपकरण के लिए एक समय पर नई एन. ई. 3 या एन. ई. 3 के विस्फोटक को निम्न लिखित में नई एन. ई. 3 के विस्फोटक

Licence to handle Nitre and Safety Fuse (Nitre and Safety Fuse) (P) (P)

अनुमति सं. (Licence No.): ESC/AP/22808/128514

वार्षिक फीस (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

Shri P. Nagireddy Proprietor M/s Sri Sai Minerals (अधिकारी) (Occupier: P. Nagi Reddy, No. 15/621, Waterworks Road, Town/Village - Tadipatri, District ANANTAPUR, State-Andhra Pradesh)

को अनुमति प्रदान की जाती है।

2. अनुमतिपत्र की परिस्थिति (Status of licensee - Individual)

3. अनुमति निम्नलिखित प्रकारों के लिए विधिवत है।

Licence is valid only for the following purpose

4. अनुमति विस्फोटकों के निम्नलिखित विवरणों, प्रकार और मात्रा के लिए विधिवत है।

Licence is valid for the following kinds and quantity of explosives - (क) (a)

क्र. सं.	नाम और विवरण	कक्षा और विभाग	उप-विभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1	Nitre Mixture	2.0	0	50 Kg
2	Safety Fuse	6.1	0	1000 Mtrs
3	Ordinary Detonator	6.3	0	500 Nos
4	Electric Detonators	6.3	0	1500 Nos

(क) किसी एक काल के मास में खपति करने वाले विस्फोटक की मात्रा (अनुबंध 3(क) और (ग) के अंतर्गत अनुमति के लिए)

3 times as above.

(b) Quantity of explosives to be purchased in a calendar month applicable for licensee under article 101(a) and (c)

5. अनुमतिपत्र रखाव (रखाव) में अनुमति परिसर की पूर्ण होनी है।

रखाव का (Drawing No.): ESC/AP/22808/128514

The licensed premises shall conform to the following drawing

दिनांक (Dated) 03/03/2006

6. अनुमति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address

Narayan Nalla, 574, ग्राम (Town/Village) Machikunta village, Tadipatri mandal

पुलिस थाना (Police Station): Tadipatri

जिला (District)

ANANTAPUR

राज्य (State)

Andhra Pradesh

पिनकोड (Pincode)

दूरभाष (Phone)

ई मेल (E-Mail)

फैक्स (Fax)

7. अनुमति परिसर में निम्नलिखित सुविधाएं उपलब्ध हैं।

B&B type portable magazine

The licensed premises consist of following facilities

8. अनुमति समय - समय पर अधिसूचित विस्फोटक अधिनियम, 1884 और उसके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित अपाबंधों के अधीन रहते हुए प्रदान की जाती है।
The licence is granted subject to the provisions of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2004 framed there under and the conditions, additional conditions and the following Annexures

1. उपर्युक्त क्रम सं. 5 में दत्त कथित रखाव (रखाने, सन्निवर्तन संबंधी और अन्य विवरण दर्शित करते हुए)

Drawings (showing site, constructional and other details as stated in serial No. 5 above)

2. अनुमति प्राधिकारी द्वारा इस अनुमति की शर्तों और अतिरिक्त शर्तों

Conditions and Additional Conditions of this licence signed by the licensing authority

3. दूरी प्रत्येक (D-2) Distance from D-2

9. यह अनुमति तारीख 31 मार्च 2008 तक विधिवत रहेगी। This licence shall remain valid till 31st day of March 2008.

यह अनुमति अधिनियम का उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निहित गैर-वात के अधीन तथा उपबंधित इस अनुमति की शर्तों का अतिरिक्त बनने या यदि अनुमति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाते या निरूपित या प्रसिद्ध की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto

तारीख: The Date - 02/03/2006

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

अधीनस्थ के पृष्ठान्त के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख
Date of Renewal

समाप्ति की तारीख
Date of Expiry

अनुमति प्राधिकारी के हस्ताक्षर और स्टाम्प
Signature of Licensing authority and stamp

18/04/2019

31/03/2024

Dr. Chief Controller of Explosives, Visakhapatnam

सावधानी चेतावनी: विस्फोटकों को सही ढंग से चलाते या उनका दुरुपयोग विधि के अधीन गंभीर दण्डित अपराध होगा।
Statutory Warning: Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

ANNEXURE - XI

M/s Sri Sai Minerals, Sy. No. 594/p & 596/p of Muchukota RF Id:1222030072							
Sl. No.	Year	Quantity permitted as per Approved Mining Plan (MTs)		Quantity Produced (MTs)		Quantity (MTs)	
		Dolomite	Steatite	Dolomite	Steatite	Dolomite	Steatite
1	2003-04	1031	2498	80	1970	50	50
2	2004-05	1031	2498	170	2345		550
3	2005-06	1031	2498	440	2470		650
4	2006-07	1031	2498	310	2422		1,200
5	2007-08	1031	2498	720	2485		1,500
6	2008-09	1031	2498	370	2461		2,770
7	2009-10	1031	2498	410	2477		3,100
8	2010-11	1031	2498	325	2489		4,150
9	2011-12	1031	2498	190	2378		4,000
10	2012-13	1031	2498	220	2259		600
11	2013-14	1031	2498	840	2395		3,400
12	2014-15	1031	2498	630	2472		2,400
13	2015-16	1031	2498	910	2398		3,200
14	2016-17	1031	2498	740	2475	200	3,800
15	2017-18	1031	2498	580	2436		2,800
16	2018-19	1031	2498	720	2483		2,150
17	2019-20 (05/2019)	1031	2498	50	506		300
	Total	17,527	42,466	7,705	38,921	250	36,620

J. Vineta Indra Reddy
 Asst. Director of Mines & Geology
 Tadipatri



ANANTAPUR

77°50'

APPROVED

PLATE NO. 1

INDEX

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

VILLAGE	POPULATION	DISTANCE IN KM	DIRECTION
Alangapeta	350	3.25	NW
Korupalle	500	4.50	NW
Muttsukota	2500	5.00	NE
Makthalavolu	800	4.75	SW
Alakota	900	3.25	SW

Tree density of the area is 0.02 to 0.025

inside
M. RAMA SUBBA REDDY
ROPI/DMG/HYD/59/2018

LOCATION CUM KEY PLAN

NAME OF THE MINE

MUTCHUKOTA STEATITE & DOLOMITE MINE

M/s SRI SAI MINERALS

SY. No.574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL, ANANTAPUR DISTRICT,
ANDHRA PRADESH STATE.

NAME OF THE OWNER

SRI. PERAM NAGI REDDY

TADAPATRI TALUK, ANANTHAPURAMU DIST.

EXTENT 4.05Hect | SCALE - 1:50000 | TOPO SHEET NO 57 F/13



Smart Survey Solutions

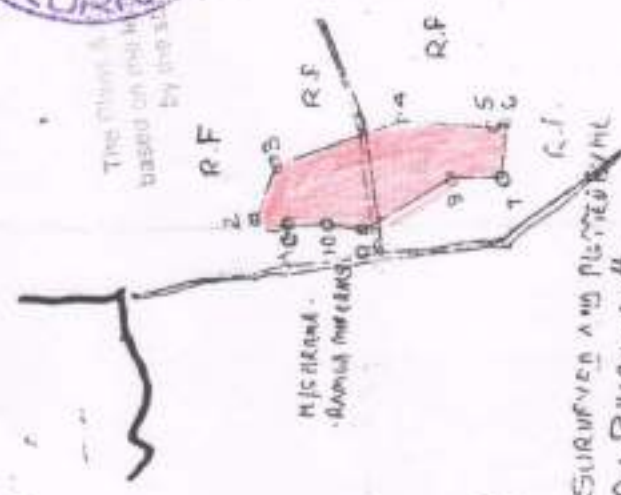
Plot No.28, 4th CROSS, BENTLEY ROAD
3RD FLOOR, KAPPAHAL ROAD,
BELLARY Contact : 9483384423-27
E Mail : smartssolutions@gmail.com

SURVEYED LINE IN TAPPING PROPOSED MINING AREA TO PERAM
NAGI REDDY IN TAPU GHATALU AND MOTU GHATALU LOCATIONS

COMP. NO 594(P) 596(P) IN MUTCHUKOTA R.F.

39

87
APPROVED



FIELD BOOK

STATION FROM TO	BEARING	CHAINS	LINE
A-1	90.5°	0-75	
1-2	6°	2-62	
2-3	110°	4-63	
3-4	162°	10-85	
4-5	131°	7-00	
5-6	164.5°	1-00	
6-7	269°	4-75	
7-8	358°	4-00	
8-9	331°	8-23	
9-10	6°	2-62	
10-1	15°	3-77	

K. Prabhakara Reddy
MINE DE (Mining), Surveyor, P.M.U. MSA, K.P.
Consulting Engineer
KOPPUGU/258/2008/A

INDEX

- R.F. LINE
- SURVEYED LINE
- STATION
- LINE FROM
- STATION OF
- MICHUKOTA
- MINERALS

Asst. Dir. of Mines, Government of India, Kurnool District, TADIPATRI.

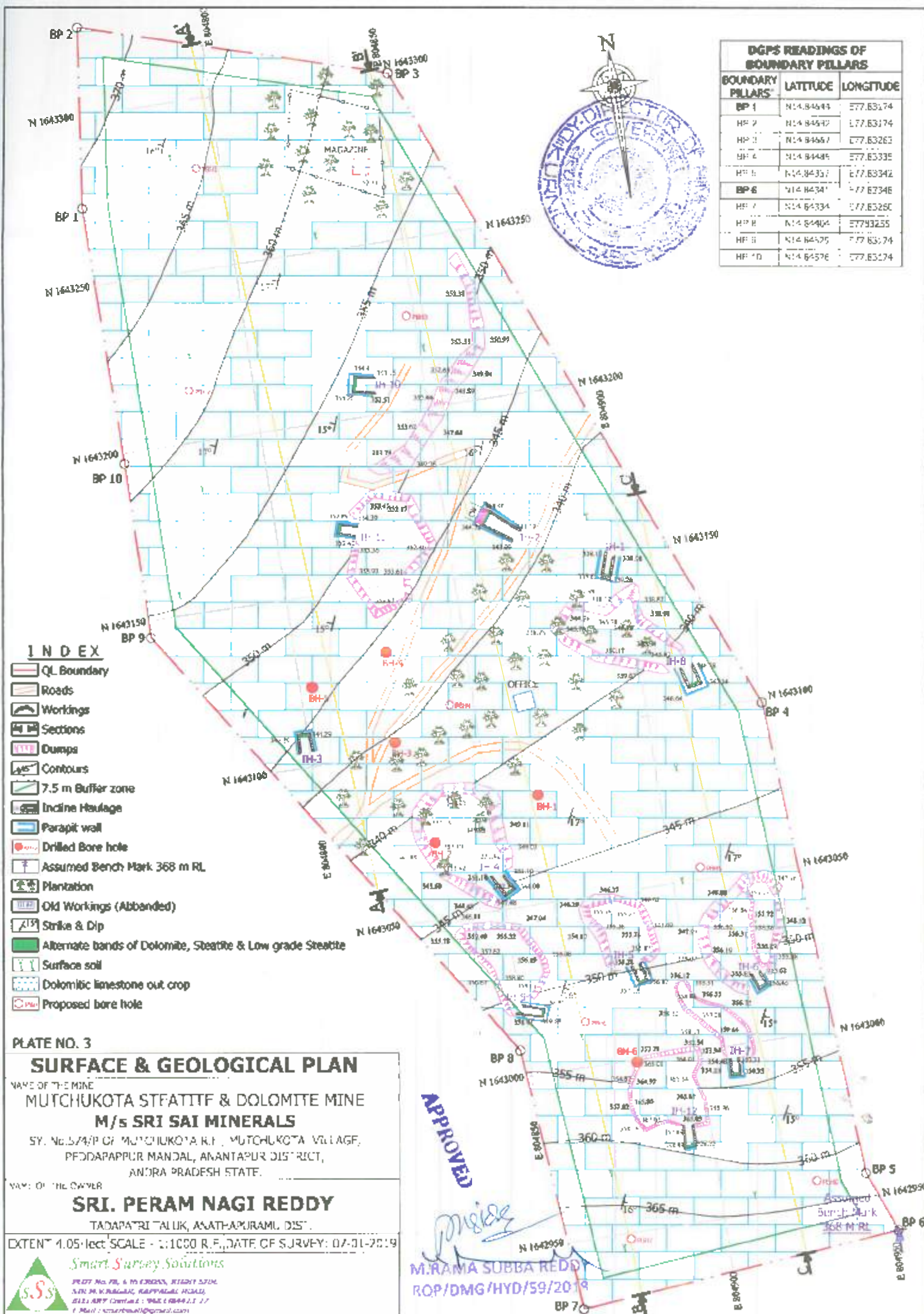
COUNTER SIGNED,
Commissioner of Forests,
Anantapur District.

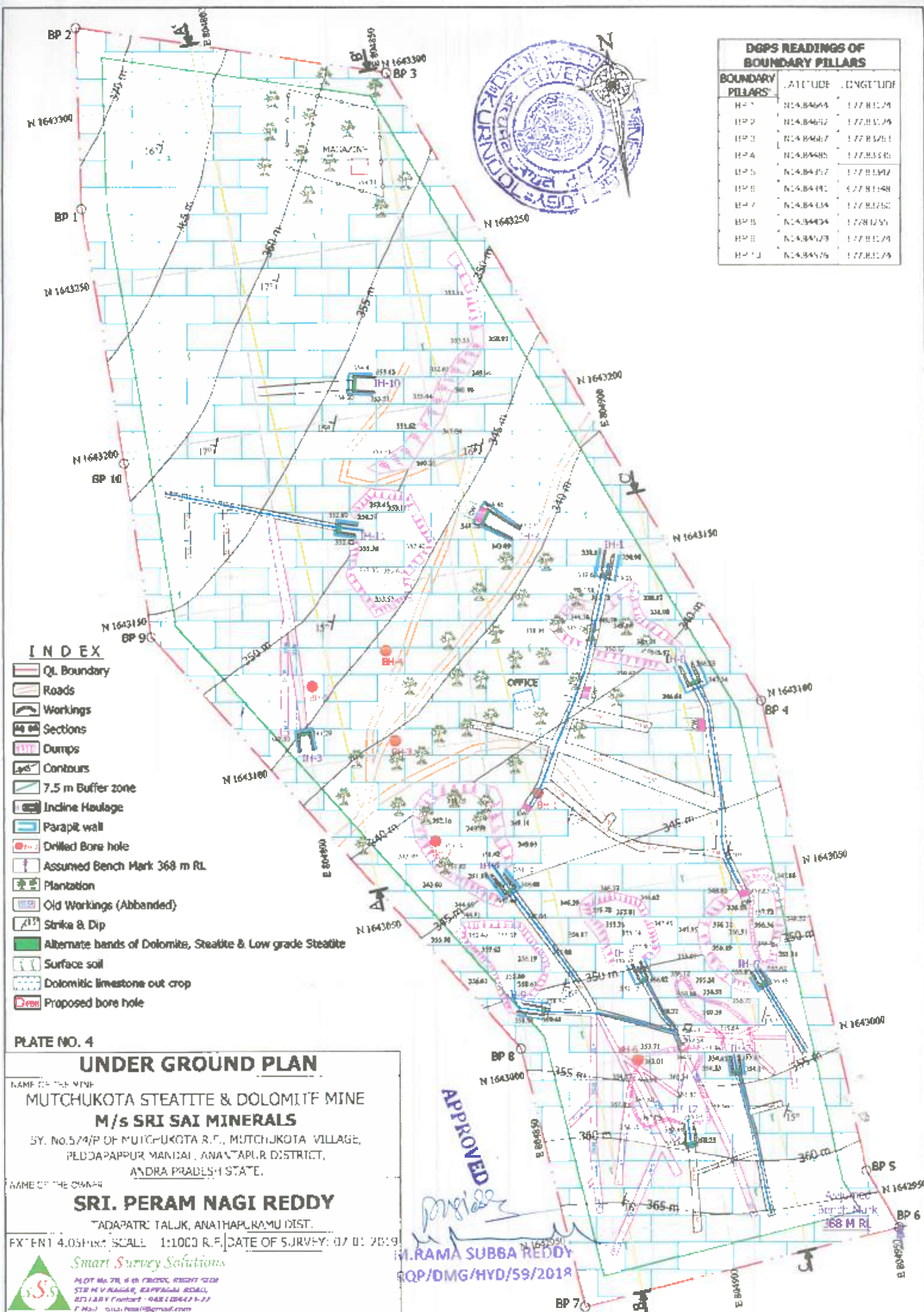
Signature

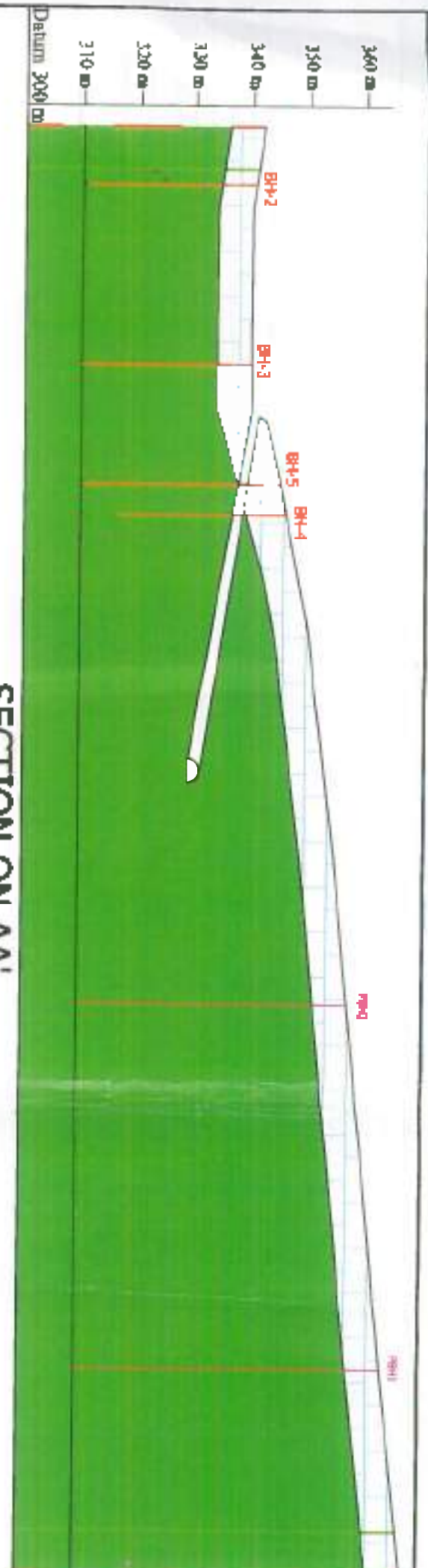
Signature
TAPU GHATALU
PLATE NO 2

DISTRICT FOREST OFFICER
ANANTAPUR

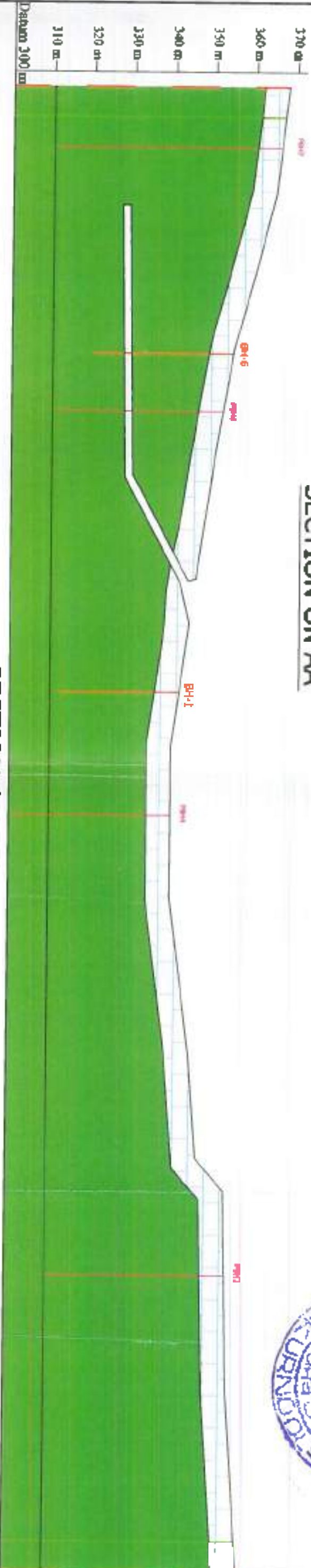
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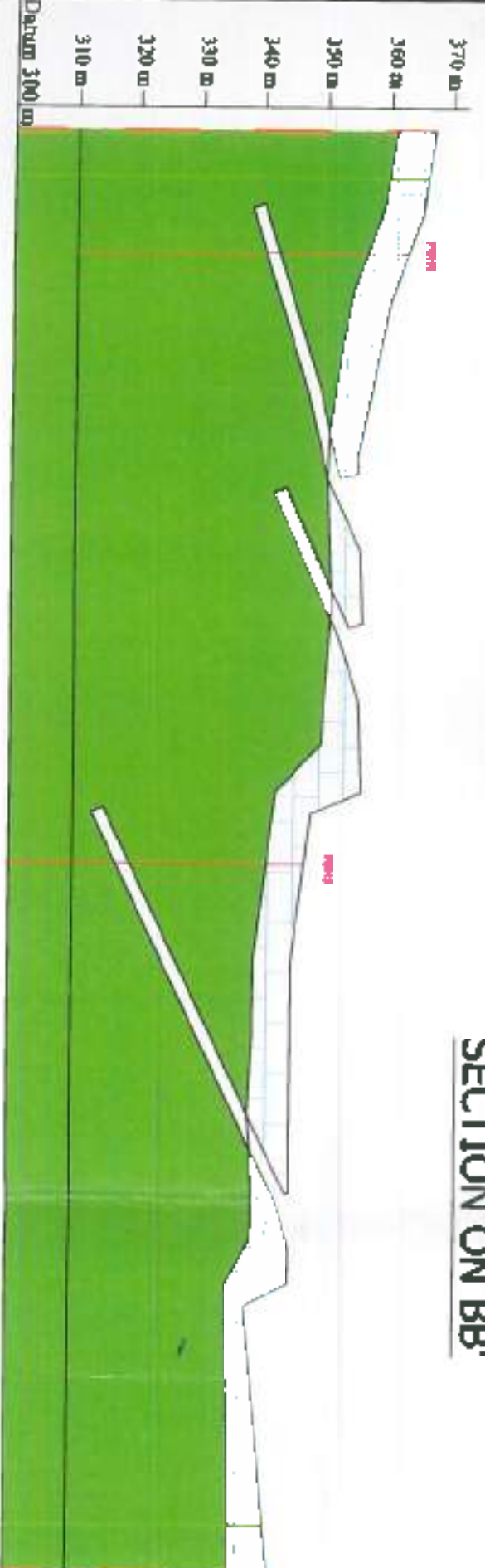




SECTION ON AA'



SECTION ON BB'



SECTION ON CC'

I N D E X

- Q.L. Boundary
- 7.5 m Buffer zone
- Crilled Bore hole
- Alternative bands of Dolomite, Steatite & Low grade Steatite
- Surface soil
- Dolomite limestone not prop
- Proposed bore hole

PLATE NO. 5

GEOLOGICAL CROSS SECTIONS

NAME OF THE MINE
MUTCHUKOTA STEATITE & DOLOMITE MINE
M/s SRI SAI MINERALS

SY. No 574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE, PEDDAPURUR NANDAM, ANANTAPUR DISTRICT, ANDRA PRADESH STATE.

NAME OF THE OWNER
SRI. PERAM NAGI REDDY
TADAPATRU TALUK, ANANTAPURAMU DIST.

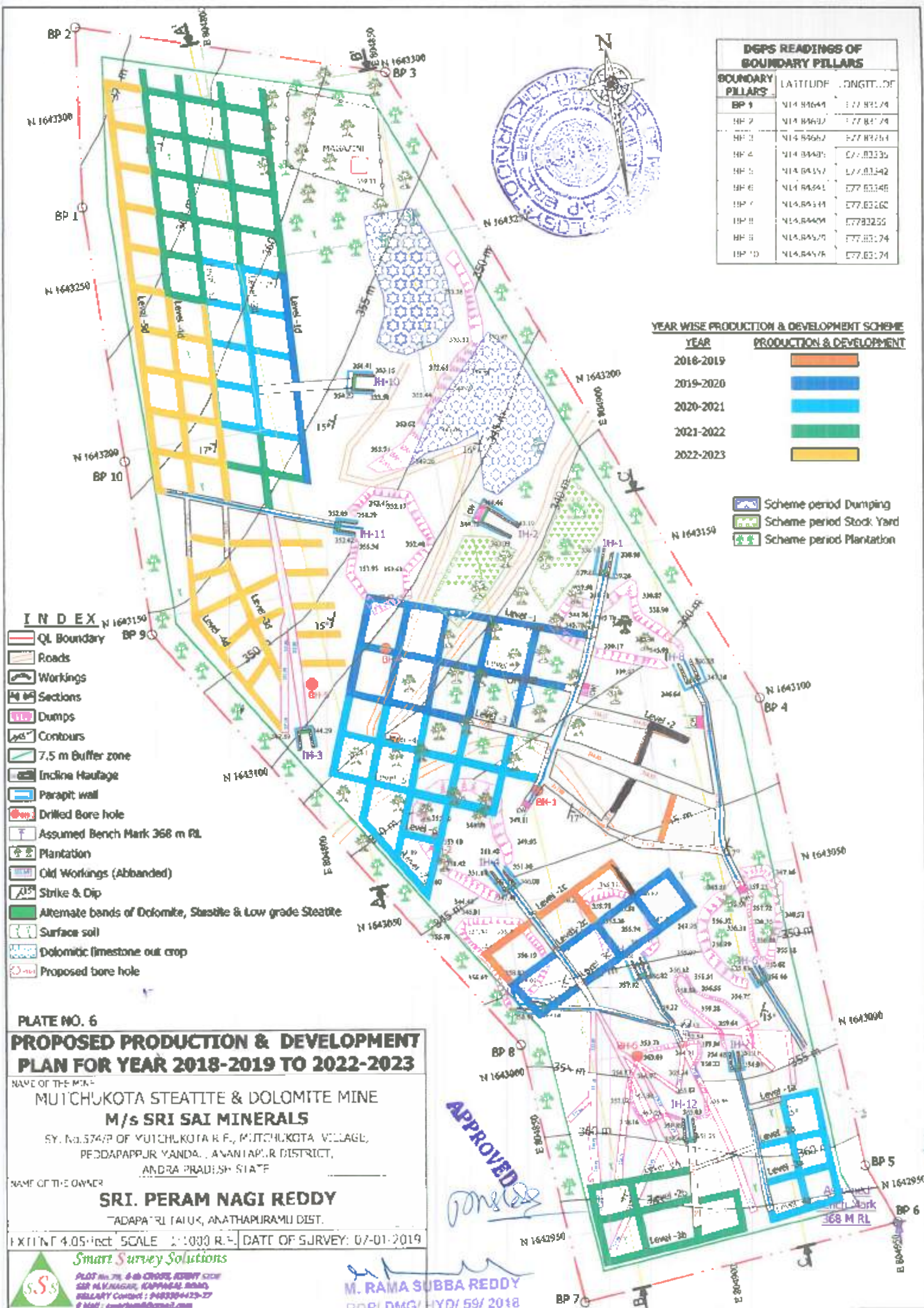
EXTENT 4.38 HECT. SCA. E - 1:1000 R.F. DATE OF SURVEY: 07-01-2019

Smart Survey Solutions
PLOT No. 79, 8th CROSS, ALICHT SDR, SRI M. V. REDDY, TADAPATRU ROAD, ALICHT SDR, ANANTAPUR DISTRICT, ANDRA PRADESH STATE.
E-MAIL: smart@smartsurvey.com

APPROVED

M. RAMA SUBBA REDDY
RGP/ DMG/ HYD/ 59/ 2018

ON 18/08/2018



DGPS READINGS OF BOUNDARY PILLARS		
BOUNDARY PILLARS	LATITUDE	LONGITUDE
BP 1	N14.84644	E 8043174
BP 2	N14.84632	E 8043174
BP 3	N14.84652	E 8043164
BP 4	N14.84435	E 8043135
BP 5	N14.84357	E 8043142
BP 6	N14.84341	E 8043148
BP 7	N14.84344	E 8043162
BP 8	N14.84404	E 8043255
BP 9	N14.84370	E 8043174
BP 10	N14.84376	E 8043174

YEAR WISE PRODUCTION & DEVELOPMENT SCHEME

YEAR	PRODUCTION & DEVELOPMENT
2018-2019	
2019-2020	
2020-2021	
2021-2022	
2022-2023	

- Scheme period Dumping
- Scheme period Stock Yard
- Scheme period Plantation

- INDEX**
- QL Boundary
 - Roads
 - Workings
 - Sections
 - Dumps
 - Contours
 - 7.5 m Buffer zone
 - Incline Haufage
 - Parapit wall
 - Drilled Bore hole
 - Assumed Bench Mark 368 m RL
 - Plantation
 - Old Workings (Abandoned)
 - Strike & Dip
 - Alternate bands of Dolomite, Steatite & Low grade Steatite
 - Surface soil
 - Dolomitic (limestone out crop)
 - Proposed bore hole

PLATE NO. 6

PROPOSED PRODUCTION & DEVELOPMENT PLAN FOR YEAR 2018-2019 TO 2022-2023

NAME OF THE MINE
MUTCHUKOTA STEATITE & DOLOMITE MINE

M/s SRI SAI MINERALS

SY. No.574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE,
PEDDAPAPPUR YANDA., ANANTAPUR DISTRICT,
ANDRA PRADESH STATE

NAME OF THE OWNER
SRI. PERAM NAGI REDDY

TADAPATRI TALUK, ANANTHAPURAMU DIST.

EXTENT 4.05 Hect SCALE 1:1000 R.F. DATE OF SURVEY: 07-01-2019

Smart Survey Solutions

Plot No.79, 6-B CROSS, KOTHU SICE
SRI N.V.NAGAR, KAPPALAM ROAD,
BELLARY Contact : 9483304429-27
E Mail : smartsurvey@gmail.com

M. RAMA SUBBA REDDY
RDP/DMG/HYD/59/2018



Smart Survey Solutions
PLOT NO. 78, 8 IN CROSS, RESISTANCE
5TH M. V. ROAD, RAIPUR DISTRICT
REGISTRY NO. 100/2018-19
E. MAIL - smart@smartsurvey.com

SCALE - 1:1000 R.F. DATE OF SURVEY: 07-01-2019

TADPATRU TALUK, ANANTAPUR DIST.

SRI. PERAM NAGI REDDY

NAME OF THE OWNER

ANDRA PRADESH STATE

SY. NO. 574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE,

PEODAPAPUR MANDAL, ANANTAPUR DISTRICT

M/S SRI SAI MINERALS

MUTCHUKOTA STEATITE & DOLOMITE MINE

NAME OF THE MINE

SCHEME OF VENTILATION

PLATE NO. 7

- INDEX**
- Proposed bore hole
 - Return Air
 - Intake Air
 - Exhaust fan
 - Proposed bare hole
 - Surface soil
 - Alternate bands of Dolomite, Steatite & Low grade Steatite
 - Strike & Dip
 - Old Workings (Abandoned)
 - Plantation
 - Assumed Bench Mark 366 m RL
 - Dried Bore hole
 - Parapet wall
 - Incline Haugage
 - 7.5 m Buffer zone
 - Contours
 - Dumps
 - Sections
 - Workings
 - Roads
 - QL Boundary

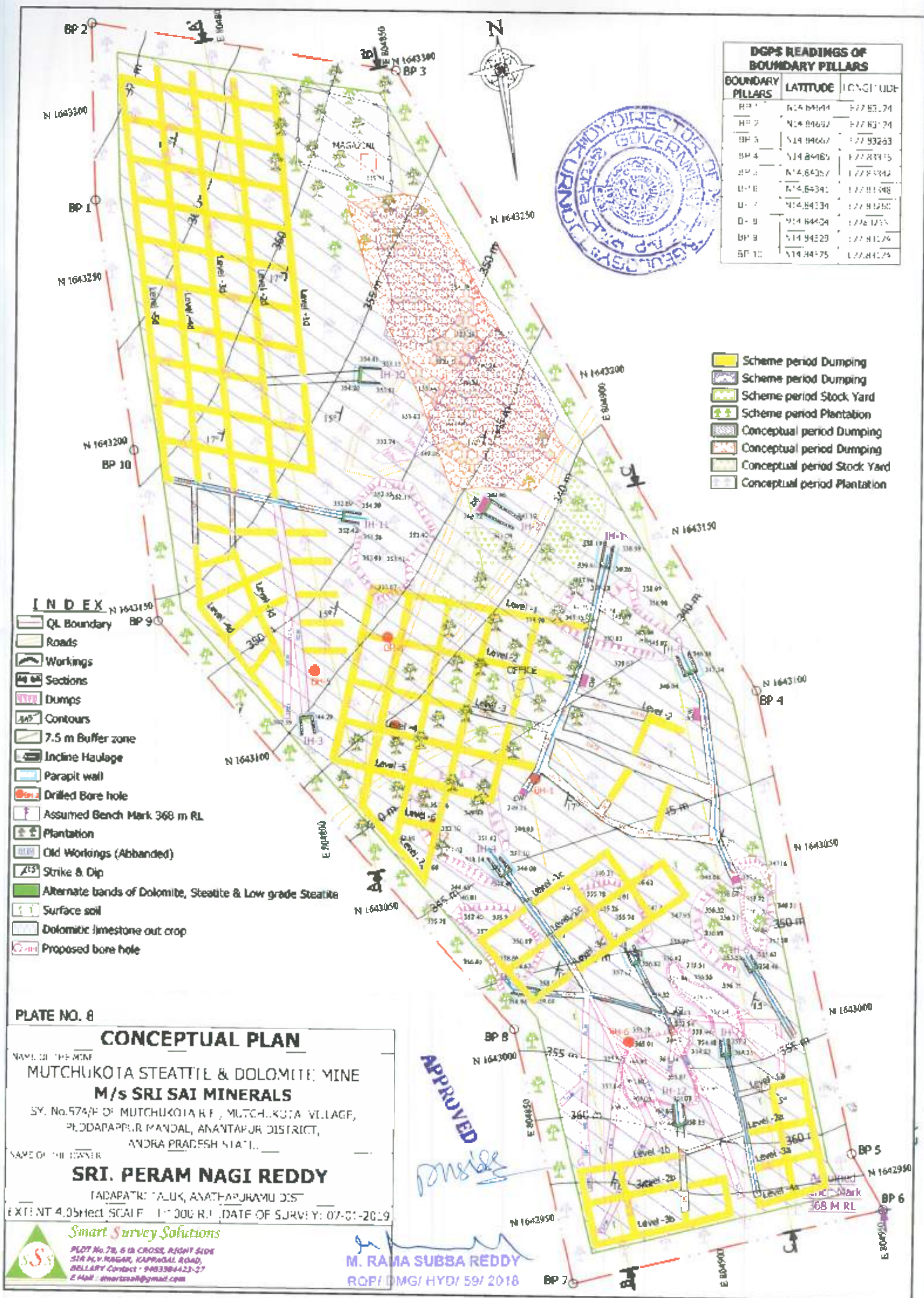
- Scheme period Dumping
- Scheme period Stock Yard
- Scheme period Plantation

DGPS READINGS OF BOUNDARY PILLARS	
PILLARS	COORDINATES
P1	177.83176
P2	177.83176
P3	177.83176
P4	177.83176
P5	177.83176
P6	177.83176
P7	177.83176
P8	177.83176
P9	177.83176
P10	177.83176
P11	177.83176
P12	177.83176
P13	177.83176
P14	177.83176
P15	177.83176
P16	177.83176
P17	177.83176
P18	177.83176
P19	177.83176
P20	177.83176



APPROVED

M. RAMA SUBBA REDDY
KCP/CMO/1101/01/2018





Smart Survey Solutions
REGD. CIVIL ENGINEER
REGD. SURVEYOR
REGD. GEOD. SURVEYOR
REGD. LAND SURVEYOR
REGD. MINING SURVEYOR
REGD. WATER SURVEYOR
REGD. AIR SURVEYOR
REGD. ROAD SURVEYOR
REGD. CANAL SURVEYOR
REGD. RAILWAY SURVEYOR
REGD. PORT SURVEYOR
REGD. COAST & GEOD. SURVEYOR
REGD. MARITIME SURVEYOR
REGD. AERIAL SURVEYOR
REGD. REMOTE SENSING SURVEYOR
REGD. GPS SURVEYOR
REGD. TOTAL STATION SURVEYOR
REGD. AUTOMATIC LEVEL SURVEYOR
REGD. DTM SURVEYOR
REGD. 3D SURVEYOR
REGD. LASER SURVEYOR
REGD. DRONE SURVEYOR
REGD. MOBILE SURVEYOR
REGD. WEARABLE SURVEYOR
REGD. SMART SURVEYOR
REGD. DIGITAL SURVEYOR
REGD. CLOUD SURVEYOR
REGD. BIG DATA SURVEYOR
REGD. AI SURVEYOR
REGD. ML SURVEYOR
REGD. DL SURVEYOR
REGD. RL SURVEYOR
REGD. FL SURVEYOR
REGD. CL SURVEYOR
REGD. QL SURVEYOR
REGD. SL SURVEYOR
REGD. VL SURVEYOR
REGD. HL SURVEYOR
REGD. TL SURVEYOR
REGD. BL SURVEYOR
REGD. GL SURVEYOR
REGD. PL SURVEYOR
REGD. AL SURVEYOR
REGD. EL SURVEYOR
REGD. IL SURVEYOR
REGD. OL SURVEYOR
REGD. UL SURVEYOR
REGD. DL SURVEYOR
REGD. FL SURVEYOR
REGD. CL SURVEYOR
REGD. QL SURVEYOR
REGD. SL SURVEYOR
REGD. VL SURVEYOR
REGD. HL SURVEYOR
REGD. TL SURVEYOR
REGD. BL SURVEYOR
REGD. GL SURVEYOR
REGD. PL SURVEYOR
REGD. AL SURVEYOR
REGD. EL SURVEYOR
REGD. IL SURVEYOR
REGD. OL SURVEYOR
REGD. UL SURVEYOR

EXTENT 4.05 Hect
SCALE - 1:1000 R.F.
DATE OF SURVEY: 07-01-2019

TADAPATRI TALUK, ANANTAPUR DIST.

SRI. PERAM NAGI REDDY

NAME OF THE OWNER

ANDRA PRADESH STATE.

PEODAPAPUR MANDAL, ANANTAPUR DISTRICT

SY. No. 574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE

M/s SRI SAI MINERALS

MUTCHUKOTA STEATITE & DOLOMITE MINES

NAME OF THE MINE

PROGRESSIVE MINE CLOSURE PLAN

PLATE NO. 9



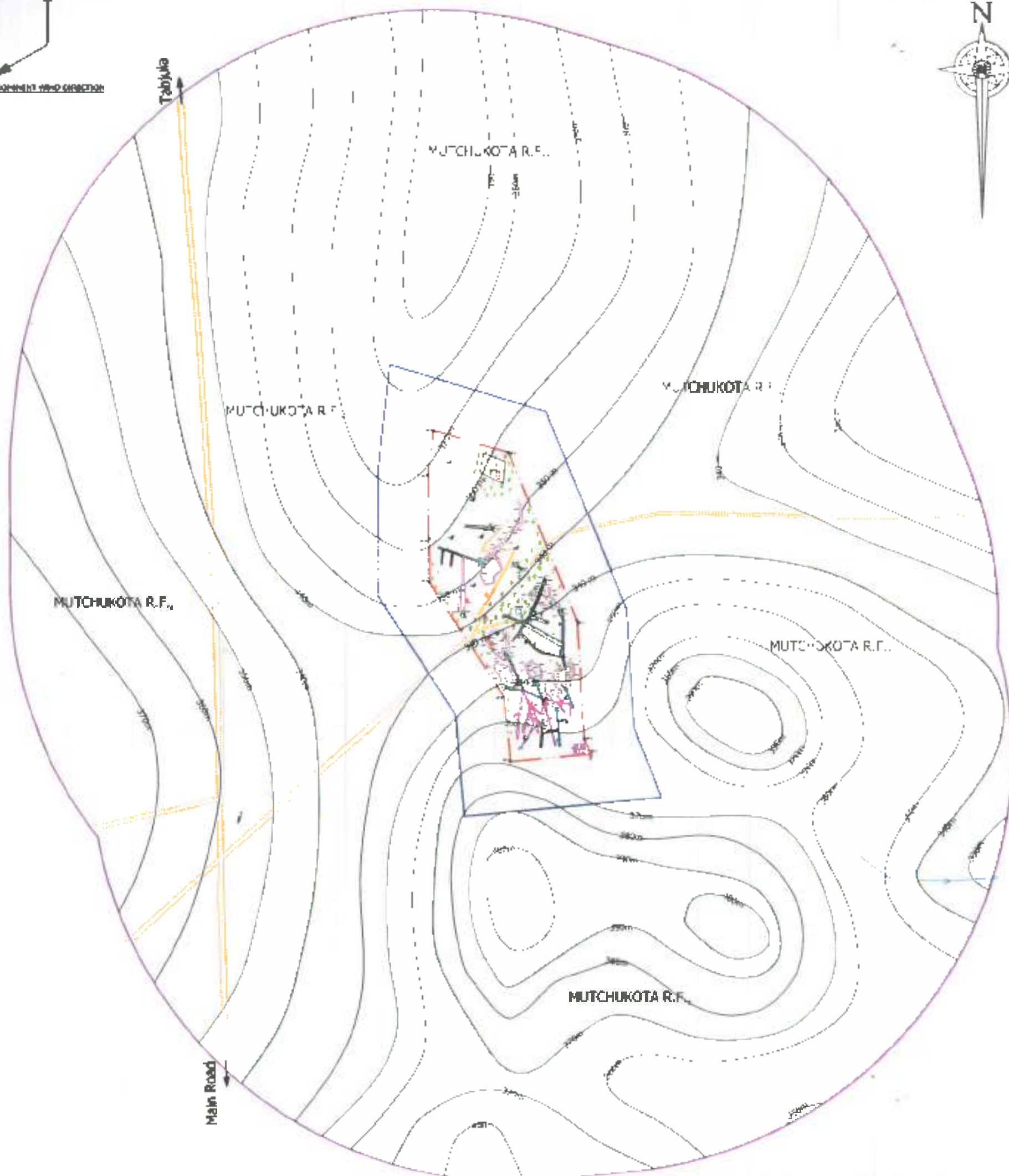
- INDEX
- Proposed bore hole
 - Dolomitic limestone out crop
 - Surface soil
 - Alternate bands of Dolomite, Steatite & Low grade Steatite
 - Strike & Dip
 - Old Workings (Abandoned)
 - Plantation
 - Assumed Bench Mark 368 m RL
 - Drilled Bore hole
 - Parapet wall
 - Incline Haugage
 - 7.5 m Buffer zone
 - Contours
 - Dumps
 - Sections
 - Workings
 - Roads
 - Qr. Boundary

- Scheme period Dumping
- Scheme period Stock Yard
- Scheme period Plantation

BOUNDARY PILLARS		BPS READINGS OF	
BOUNDARY PILLARS	COORDINATE	BOUNDARY PILLARS	COORDINATE
BP 1	177.5174	BP 1	177.5174
BP 2	177.5174	BP 2	177.5174
BP 3	177.5174	BP 3	177.5174
BP 4	177.5174	BP 4	177.5174
BP 5	177.5174	BP 5	177.5174
BP 6	177.5174	BP 6	177.5174
BP 7	177.5174	BP 7	177.5174
BP 8	177.5174	BP 8	177.5174
BP 9	177.5174	BP 9	177.5174
BP 10	177.5174	BP 10	177.5174

Total Area		S and total	
Area	Hect	Area	Hect
1	1.00	1	1.00
2	1.00	2	1.00
3	1.00	3	1.00
4	1.00	4	1.00
5	1.00	5	1.00
6	1.00	6	1.00
7	1.00	7	1.00
8	1.00	8	1.00
9	1.00	9	1.00
10	1.00	10	1.00
11	1.00	11	1.00
12	1.00	12	1.00
13	1.00	13	1.00
14	1.00	14	1.00
15	1.00	15	1.00
16	1.00	16	1.00
17	1.00	17	1.00
18	1.00	18	1.00
19	1.00	19	1.00
20	1.00	20	1.00
21	1.00	21	1.00
22	1.00	22	1.00
23	1.00	23	1.00
24	1.00	24	1.00
25	1.00	25	1.00
26	1.00	26	1.00
27	1.00	27	1.00
28	1.00	28	1.00
29	1.00	29	1.00
30	1.00	30	1.00
31	1.00	31	1.00
32	1.00	32	1.00
33	1.00	33	1.00
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97	1.00	97	1.00
98	1.00	98	1.00
99	1.00	99	1.00
100	1.00	100	1.00





INDEX

- QL Boundary
- Roads
- Workings
- Dumps
- Contours
- Incline Haulage
- Parapit wall
- Drilled Bore hole
- Assumed Bench Mark 368 m RL
- Plantation Existing
- Old Workings (Abandoned)
- 500m Limit line
- 60m Limit line
- Plantation Proposed

APPROVED



M. RAMA SUBBA REDDY
RDP/ DMG/ HYD/ 59/ 2018

PLATE NO. 10

ENVIRONMENTAL PLAN

NAME OF THE MINE
MUTCHUKOTA STEATITE & DOLOMITE MINE
M/s SRI SAI MINERALS
SY. No.574/P OF MUTCHUKOTA R.F., MUTCHUKOTA VILLAGE,
PEDDAPAPPUR MANDAL, ANANTAPUR DISTRICT,
ANDRA PRADESH STATE.

NAME OF THE OWNER
SRI. PERAM NAGI REDDY
TADAPATRI TALUK, ANATHAPURAMU DIST.

FXT=VT 4 C5 Hect SCALE - 1:5000 R.F. DATE OF SURVEY: 07-01-2019

Smart Survey Solutions
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