# GOVERNMENT OF ANDHRA PRADESH DEPARTMENT OF MINES & GEOLOGY

From

V. Nagini, M.Sc., B.Ed., Deputy Director of Mines & Geology (FAC), KURNOOL. To
M/s Sainath Stone Crushers,
Prop: Sri Y.Bala Thimma Reddy
S/o Y.Konda Reddy,
H.NO.2-23-4-18, Kareembag Colony,
Banaganapalli Town
Kurnool District-518124.

## Letter No.2128/MP/2021, Dated:14.12.2021

Sir,

Sub:- Mines and Quarries – Approval of Mining Plan (including Progressive Mine Closure Plan) for Road Metal over an extent of 2.900 Hectares in Compartment No.313 of Gulamaliabad South R.F., Kurnool Division, Bhanumukkala Village, Banaganapalle Mandal, Kurnool District in favour of M/s Sainath Stone Crushers, Prop: Sri Y.Bala Thimma Reddy, prepared by Sri G.Eswar Reddy, R.Q.P. - Mining Plan - Approved – Regarding.

**Ref:-** 1) G.O.Ms.No: 56, Ind. & Comm. (M.II) Dept., dated: 30.04.2016.

2) Prodgs.No: 28594/P.RQP/2001, dt: 13.05.2016 of the Director of Mines and Geology, Hyderabad.

3) Circular Memo No.25019/P-Misc/2015, dt: 08.09.2020 of the Director of Mines and Geology, Ibrahimpatnam.

4) Quarry Lease Application NoMIN011700056142 filed by M/s Sainath Stone Crushers, Mg.Ptr: Sri Y.Bala Thimma Reddy on Dt.13-05-2021.

5) Circular Memo No.3861432/P/2020, dt: 16.07.2021 of the Director of Mines and Geology, Ibrahimpatnam.

6) Letter No.Ref.no.EFS02-15029/11/2020-FCA SEC-PCCF/FCA-1, dt.01.08.2021 of the Prl. Chief Conservator of Forests & Head of Forest Force, Andhra Pradesh, Guntur.

7) Letter dated: 31.08.2021, along with draft Mining Plan from the applicant received in this office on 23.09.2021.

8) This office Letter No.2128/MP/2021, dt: 29.10.2021 addressed to the applicant / RQP.

9) Letter dated: 10.12.2021, along with five sets of fair copies of mining plan from the applicant received in this office on 10.12.2021.

\* \* \* \*

In exercise of the powers conferred as per amended Rule 7 A (I), (II), (III) and (IV) of APMMC Rules, 1966 read with G.O.Ms.No: 56, Ind. & Comm. (M.II) Dept., dated.30.04.2016, Proceedings No: 28594/P.RQP/2001, dt: 13.05.2016 and Circular Memo No.25019/P-Misc/2015, dt: 08.09.2020 of the Director of Mines and Geology, GoAP, *I hereby approve the* Mining Plan (including Progressive Mine Closure Plan) for Road Metal over an extent of 2.900 Hectares in Compartment No.313 of Gulamaliabad South R.F., Kurnool Division, Bhanumukkala Village, Banaganapalle Mandal, Kurnool District in favour of M/s Sainath Stone Crushers, Prop: Sri Y.Balathimma Reddy. This approval is subject to the following conditions.

- 1. This Mining Plan (including Progressive Mine Closure Plan) is approved without prejudice to any other laws applicable to the mine area from time to time whether made by the Central Government, State Government or any other authority.
- 2. It is clarified that this approval of the Mining Plan (including Progressive Mine Closure Plan) does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 and any other laws including the Forest Conservation Act, 1980 and APMMC Rules, 1966.
- 3. The approval authority does not owe responsibility with regard to recovery factor of **Road Metal** and assessment of reserves, any erroneous certification made by the R.Q.P. if any, since the evaluation is done on random basis.

- 4. The Mining Plan (including Progressive Mine Closure Plan) is approved subject to strictly adhering to the relevant Regulations of MMR, 1961 and obtaining prior permission from the Director General Mines Safety whenever and wherever it is required.
- 5. The applicant/ lessee shall safeguard the structures, public buildings, roads, railway line, electric line and water bodies exists if any as per regulations 109 & 127 of MMR, 1961.
- 6. The approval of Mining Plan (including Progressive Mine Closure Plan) shall be subjected to vacation of prohibitory orders or notices or determination orders etc., if any issued by the competent authority.
- 7. If anything is found to be concealed as required by the Mines Act in the contents of the approved Mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.
- 8. This Mining Plan was approved as per the quarry lease executive sketch of the subject area. Any deviation found later, approval authority does not owe responsibility.
- 9. The approval authority does not owe responsibility with regard to erroneous certification made by the R.Q.P if any and approval is tentative subject to modification of new findings at a later date as per the provisions of Rules inforce, since the evaluation is done on random basis.

Yours faithfully,

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

Deputy Director of Mines & Geology (FAC), Kurnool.

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Copy submitted to the Director of Mines & Geology, Ibrahimpatnam along with A.M.P.

Copy to Sri G.Eswar Reddy, RQP, Door No.13-2-155-1, Shirdi Nagar, Anantapuramu-5151001 for information.

Copy submitted to the Regional Controller of Mines, IBM, Kavadiguda, Secunderabad for favour of information.

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

Copy to the Asst. Director of Mines & Geology, **Banganapalle** along with A.M.P with a request to obtain valid Bank Guarantee (Financial Assurance) from the applicant.

# MINING PLAN & PROGRESSIVE MINE OLDSURE PLAN FOR

OVER AN EXTENT OF 2.900 News. IN COMPARTMENT. NO. 313 OF GULAMALAIABAD SOUTH RE, KURNOOL DIVISION,
BHANUMUKKALA (V), BANAGANAPALLE (M), KURNOOL DISTRICT,
ANDHRA PRADESH STATE.

# OTHER THAN FULLY MECHANIZED OPEN CAST QUARRY 'B' CATEGORY FOREST LAND

(Under Rule 7(A) of A.P.M.M.C.R., 1966)
AS PER FORM-T OF G.O.MS.NO.56, DT: 30.04.2016.

#### FOR

APPROVED

## M/S. SAINATH STONE CRUSHERS Sri.Y. BALATHIMMA REDDY,

H.No: 2-23-4-18, Kareembag Colony,
Banaganapalle -518124,
Kurnool District.
Andhra Pradesh State.

Pin Code of Lease applied Area: 518124.
E-mail:ybtr123@gmail.com
Contact No.9440821279.

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## Prepared by

G.ESWAR REDDY M.Sc., B L.,
RQP/Geologist,
RQP/DMG/AP/07/2014,
RQP/HYD/302/2013/A'
D.No.13-2-155-1,
Shirdi Nagar,
ANANTAPURAMU A.P. 515001.
Mobile: 09849132789.Phone No: 08554 222737.
Email:eswarreddygeologist@gmail.com
saigeoservices@gmail.com

**DECEMBER-2021** 

This mining plan for quality lease area for Road Metal over an extent of 2.900 Hects. in Compartment No.313 of Gulamalaiabad South RF, Kurnool Division, Bhanumukkala Wlage Banaganapalle Mandal, Kurnool District, Andhra Pradesh State, prepared in consultation with me and I understand its contents and agreed to implement the same in accordance of APMMC Rule 1966.

Place: KURNOOL.

Date: 04-12-2021.

**Applicant** 

Y. Bola Thirms Rody
(M/S. Sainath Stone Crushers)

#### **CERTIFICATE**

This is to certify that Mining Plan in respect of quarry lease area for Road Metal over an extent of 2.900 Hects. In Compartment. No. 313 of Gulamalaiabad South RF, Kurnool Division, Bhanumukkala Village, Banaganapalle Mandal, Kurnool District, Andhra Pradesh State, prepared by Dr G.Eswar Reddy, Consultant Geologist & RQP from **M/s. SAI GEO SERVICES**, office at Anantapuramu. The applicant agrees to follow the same in accordance to the provisions of law.

Place: KURNOOL.

Date: 04-12-2021.

**Applicant** 

(M/S. Sainath Stone Crushers)

Y-Bola Thuma Podly



The provisions of APMMC Rule 28 observed in preparation of Mining Plan for quarry lease area for Road Metal over an extent of 2.900 Hects. in Compartment. No. 313 of Gulamalaiabad South RF, Kurnool Division, Bhanumukkala Village, Banaganapalle Mandal, Kurnool District, Andhra Pradesh State.

Wherever specific permissions are required the Lessee will approach the concerned authorities.

Certified that the information provided in the mining plan is correct to the best of my knowledge.

Date: 04-12-2021.

Place: Anantapuramu.

SIGNATURE OF THE RQP

G. ESWAR REDDY, M.Sc., B.L., Ph.D.,

Recognised Geologist IBM/RQ/HYD/302/2013/A

RQP/DMG/AP/07/2014

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## LIST OF ANNEXURES

ANNEXURE – I	Photographs of the Area
ANNEXURE - II	Application copy dated:13-05-2017.

Copy of the Ref. No. EFSO2-15029-/59/2018-FCA SEC-PCCF/FCA-1, Dated:01-08-2021 PCCF, Guntur AP-522004. Copy of the Registration Certificate of R.Q.P ANNEXURE - III

ANNEXURE - IV

MINING PLAN & PROGRESSIVE MIME CLOSURE PLAN FOR ROAD METAL OVER AN EXTENT OF 2.900 Hect. LOCATED IN COMPARTMENT. NO. 313 OF GULAMALATABAD SOUTH RF, KURNOOL DIVISION BHANUMUKKALA VILLAGE, BANAGANAPALLE MANDAL, KURNOOL DISTRICT, ANDHRA PRADESH STATE.

Introduction

M/s. Sainath Stone Crushers, Mg. Part: Y. Bala Thimma Reddy has filed an application for grant of Quarry Lease for Road Metal over an extent of 3.000 hectares in Compartment. No.313 of Gulamalaiabad South RF, Kurnool Division, Bhanumukkala village, Banaganapalle Mandal, Kurnool District in the office of ADM&G, Banaganapalle on Meeseva on 13-05-2017 and received in office 15-05-2017. Annexure-II.

The Asst. Director of Mines & Geology, Banaganapalle has submitted proposals to the Director of Mines and Geology, Ibrahimpatnam duly recommending for grant of quarry lease for **Road Metal** over an extent of 2.900 hectares in Compartment. No.313 of Gulamalaiabad South RF, Kurnool Division Bhanumukkala village, Banaganapalle Mandal, Kurnool District for a period of 10 years in favour of **M/s. Sainath Stone Crushers, Mg. Part:Y. Bala Thimma Reddy,** subject to satisfaction Forest Department clearance as per A.P.M.M.C. Rules, 1966 and subsequent Govt. Instructions issued from time to time.

The Director of Mines & Geology, Ibrahimpatnam examination of the proposals of the Asst. Director of Mines & Geology, Banaganapalle it is decided in principle to grant of Quarry Lease for Road Metal over an extent of 2.900 hectares in Compartment. No. 313 of RF, Division, Bhanumukkala village. Gulamalaiabad South Kurnool Banaganapalle Mandal, Kurnool District for a period of 10 years in favour of M/s. Sainath Stone Crushers, Mg. Part:Y. Bala Thimma Reddy,. Vide Lr: No. 21990/R4-2/2017, dated: 24-10-2017 to get the Forest clearance from PCCF & HoFF, A.P. Guntur, Ref. No. EFSO2-15029/59/2018-FCASEC-PCCF/FCA-1, Dt:01-08-2021 as per APFD-F (C) Act, 1980- Diversion of forest land over an extent of 2.90 ha. in Compartment No.313, Gulamaliabad South Reserve Forest, Dhone Range, Kurnool Division & District in favour of M/s. Sainath Stone Crushers, Mg. Part:Y. Bala Thimma Reddy for grant of quarry lease for Road Metal. Annexure-III.

Vining Plan is approved subject to the Conditions/Supulations indicated in the Mining Plan Approval Letter No. 128 | M. C. 1202 | Dated 1412

Deputy Director of Mines & Geology, (FAC),

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In this contest Pri. Chief Conservator of Forest & Head of Forest Force, Andhra Pradesh asked to submit additional information of other mining leases for particular mineral with their capacity and annual average annual production and projected further requirements in the state of AP in respect of subject proposal for further processing of the proposal to the Director of Mines & Geology, Ibrahimpatnam.

Hence it is requested to take necessary action to furnish the Approved Mining Plan by getting draft Mining Plan from the User Agency for the precise forest area arrived after DGPS survey to the Director of Mines & Geology, Ibrahimpatnam.

M/s. Sainath Stone Crushers, Mg. Part:Y. Bala Thimma Reddy, approached Sri.G.Eswar Reddy, Consultant Geologist & RQP to prepare the Mining Plan following the guidelines and hence this Mining Plan is prepared under Rule 7 (A) of APMMC'1966 and submitted.

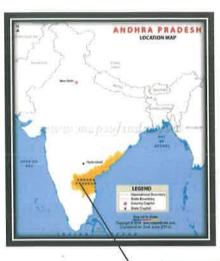
#### **I GENERAL**

GENER	VIL			
1.1	Name and Address of the Lessee	M/S. Sainath Stone Crushers Sri.Y. Balathimma Reddy, H.No: 2-23-4-18, Kareembag Colony, Banaganapalle -518124, Kurnool District. Andhra Pradesh State. Pin Code of Lease applied Area: 518124. E-mail: ybtr123@gmail.com Contact No. 9440821279		
1.2	Status of the Lessee (Individual/ Private Company/ Firm)	FIRM		
1.3	Mineral (s) which are included in the Letter of Intent	ROAD METAL		
1.4	Name and Details of person employed for preparing Mining Plan	G.ESWAR REDDY M.Sc., B L., RQP/Geologist, RQP/DMG/AP/07/2014, D.No.13-2-155-1, Shirdi Nagar, ANANTAPURAMU. A.P. 515001. Mobile: 09849132789. Phone No: 08554 222737.		
1.5	E-Mail & Website	Email: eswarreddygeologist@gmail.com		
1.6	RQP Registration No. & Validity	RQP/DMG/AP/07/2014 & Valid Up to Dec-2024		

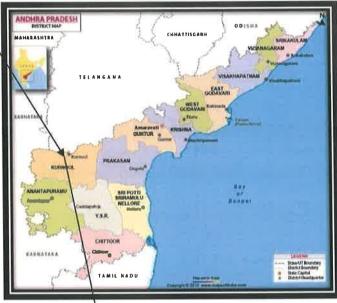
1. Toposheet No. with latitude and longitude of all corner boundary pillars: The Quarry lease applied area falls on 501 Toposheet No.57 I/ 03 Scale 1: 50,000) and the Geo Co-ordinates of the boundary pillars are tabulated below:

Table - DGPS READINGS OF BOUNDARY POINTS

CIOVI	Table						
GEO CO		P DATUM WGS -84					
	DMS(degrees, minutes(seconds)						
POINT	N-Latitude	E-Longitude					
M1	15 <sup>0</sup> 18' 50.84745"	78° 11′ 24.65084″					
M2	15° 18′ 50.87993″	78° 11′ 25.33487″					
М3	15° 18′ 51.11197″	78° 11′ 26.94487″					
M4	15° 18′ 51.36634″	78° 11′ 28.75305″					
M5	15° 18′ 51.73954″	78° 11′ 30.38449″					
M6	15 <sup>0</sup> 18' 51.84511"	78° 11′ 32.09538″					
M7	15° 18′ 50.38683″	78° 11′ 32.01672″					
M8	15° 18′ 48.57188″	78° 11′ 31.91033″					
M9	15° 18′ 46.63398″	78 <sup>0</sup> 11′ 31.81435″					
M10	15° 18′ 45.28953″	78 <sup>0</sup> 11′ 31.73826″					
M11	15° 18′ 44.90194″	78 <sup>0</sup> 11′ 30.61635″					
M12	15° 18′ 44.35681″	78 <sup>0</sup> 11′ 29.02841″					
M13	15° 18′ 46.72565″	78 <sup>0</sup> 11′ 28.74956″					
M14	15° 18′ 45.21534″	78 <sup>0</sup> 11′ 28.86145″					
M15	15° 18′ 48.12211″	78 <sup>0</sup> 11′ 28.64718″					
M16	15° 18′ 49.10536″	78° 11′ 28.57256″					
M17	15° 18′ 48.67238″	78 <sup>0</sup> 11′ 27.04341″					
M18	15° 18′ 48.23606″	78° 11′ 25.51611″					
M19	15° 18′ 48.08276″	78 <sup>0</sup> 11′ 25.06337″					
M20	15° 18′ 49.55204″	78° 11′ 24.84163″					









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## 2. Attach a general location map showing area and access routes:

The QL applied area is located at 4.5 km towards. South West of Banaganapalli village and 1.5km towards South East of Yagah to all village Cart road is having from the Yagantipalli village. The Yagantipalli village is not to ad side which is connecting Kurnool to Banaganapalli Road. The Qt applied area can be approached from Kurnool to Banaganapalli Road before 4.50 km from Banaganapalli Mandal Yagantipalli village take right diversion towards South of the Road 1.5 km QL applied area is reached. The Q L applied area has good accessibility to the National Highway of NH-18 Kurnool to Chennai at 35.0Kms connecting at Nandyal cross. Water is available at the nearby site in Agricultural Bore Well from Q.L. applied area. Power connections are available up to Yagantipallii (V) Banaganapalli Mandal, Kurnool Dist. Tele communication facility is available at Banaganapalli(V), which is at a distance of about 4.50 km all cell networks can function in the site area.

The nearest railway station is at Bethamcherla which is about 15.5Km. Nearest Port facilities are at Chennai, Krishnapatnam, and Mangalore. High school is present in the Banaganapalli village, Degree level Educational facilities exist at Banaganipalli. Hospital facility (PHC) is available at Banaganapalli which is 5.0 km. from the quarry site.

The details of the area are tabulated below:

\*Map Datum: WGS-84

State	District	Mandal	Village	Compartme nt. No.	Extent in hects.	Status of occupancy	Pin Code
Andhra Pradesh	Kurnool	Banaga napalle	Bhanu mukkala	313	2.900	Forest. land (barren)	518124

The DGPS Sketch prepared by **VVN Technology**, **Mangalagiri** is Approved By the **ADM&G**, **Banaganipalli & DDMG**, **Kurnool**, in favor of M/S. SAINATH STONE CRUSHERS Mg.Part. Y. Bala Thimma Reddy is Given As **Plate No. II**.

## 2.1 Period of quarry lease required = 10 years

#### 2.2 Infrastructure and Communication

	Water is available at near the Quarry site Bore Well fitted with
Availability of Water	Submersible Pump. Power connections are available near to QL
	applied area.
Availability of	Power connections are available up to Bhanumukkala
Electricity	village. The company will draw power lines from the
	village.
	Tele communication facility is available at Bhanumukkala which
Communication	is at a distance of about 1.0 km and all networks can function
Network	in the site area.
_	The QL applied area has got good accessibility to the
Road Network	Banaganapalle - Nandyal Road crossing at about 2.5km at
	Banaganapalle.
Nearest Rail Head	The nearest railway station is at Banaganapalle which is
110010011001	about 2.5 km.
Port Facility	Nearest Port facilities are at Chennai, Krishnapatnam,
T OTE T domey	Mangalore and Tuticoreine.
	High school is present in the Bhanumukkala village,
School	Degree level Educational facilities exist at Banaganapalle.
Madical Equilibra	Hospital facility is available at Banaganapalle which is 2.5
Medical Facility	km. from the quarry.
	The applied area is situate at a distance of 100 mts from
Forest Boundary	forest boundary.
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#### **Boundaries**

**North:** Forest Land, Compt. No.313, Bhanumukkala village.

**South:** Forest Land, Compt. No.313, Bhanumukkala village.

**East:** Forest Land, Compt. No.313, Bhanumukkala village.

West: QL applied area of Sri.G.Maddilety Reddy & Compt. No.313,

Bhanumukkala village.

Further good potential exists for the employment of unskilled labour in the existing Quarries and allied Small-Scale Industries. The area experiences Tropical Climatic Conditions, General Monsoons are SW & NE with an average annual normal rainfall of 568.7 mm and 613.3 mm is in the year of 2020-21. The local day temperature varies from 22.0°C (Minimum in winter) to 43.0°C (Maximum in summer) in the Month. Total Population of this Yagantipalli & Bhanumukkala Village is around 1040 & 1524 (Source: Census of India – 2011).

## III DETAILS OF APPROVED MINING PLAN / SCHEME OF MINING IF ANY

No Mining plan was approved earlier the Present document is for assessment of the quarry activity, Reserve Estimation, Proposed Method of Mining, Environment Management Plan including Reclamation and Rehabilitation measures to be adopted. The Lessee will approach ADMG for necessary Permissions to Start Quarry Operations.

#### PART - A

#### 1. General details of the area:

#### Physiography / Topography:

Topographically the QL applied area is a Hillock gently slopes towards South directions. Generally it is low lying plain land with an average altitude of 290m to 341m above M.S.L. and dendritic to sub dendritic drainage is observed. The area is elevated towards North of the QL applied area and sloping towards South directions. The area is belonging to Govt. It comprises big size Boulders and shrubs only. The subject area covers the part of the Pediment comprising negligible soil cover 1m depth along the depressions of the big size Boulders exposed over the subject area. The drainage pattern is dendritic to sub-dendritic. The applied area belongs to rocky terrain it does not have much vegetation. The climate is tropical with temperatures ranging from 28 °C to 38 °C in the summer and 18 °C to 20 °C in the winter. The average annual rainfall is about 568.7 mm and 613.3 mm in the year 2020-21.

#### 2. GEOLOGY AND EXPLORATION:

#### 2.0 Regional Geology:

Stratigraphy of the area

Geological succession of the area (after Saha and Ttripathy, GSI, 2012)

Nandyal Shale

Koilkunta Limestone

Paniam Group

**KURNOOL GROUP** 

**Owk Shale** 

Narji Limestone

Banganapalli quartzite

A 500m thick succession of Quartzite, Sand stone, Clay & Limestone unconformably overlies the Cuddapah sediments in Kurnool and Palnad Basin. The Kurnool sub basin is in the West Central part of the Cuddapah Basin lies between the Northern Srisailam sub Basin and Southern Papagni sub Basin.

Formation	Lithology	Thickness in mts
Nandyala Clay	Clay	50-100
Koilakuntla Limestone	Limestone	15-50
Panyam Quartzite	Quartzite	10-35
Owk Clays	Clay	10-15
Narji Limestone	Limestone	100-200
Owk Quartzite	Conglomerate	10-50
	Quartzite	

Owk Quartzite forms the basal part of the Kurnool group overlies the Cuddapah group with unconformity. It consists of Dark Red, Grey or Brown Sand stone, which is course grained and gritty with an impersistant Zone of Conglomerate.

The above sequence has not been revised; expect that the Pinnacled and Panyam Quartzites are clubbed together as Panyam Quartzite.

The Narji Lime stones are well developed and have extensive distribution. It starts as highly siliceous limestone with Pink Colour and thin lenticular lenses of gritty, ferruginous sand stone at some places. The middle portion is a Bluish grey high grade limestone, massive and thinly bedded.

The Owk Clay overlying the Narji Limestone, buff white and purple colored Clay. Panyam Quartzite overlying the Owk Clay is overlain by ferruginous, occasionally Conglomerate Panyam Quartzite. These Quartzites are forming typical highly jointed inselberg type out crop with vast and extensive exposure of low level with gentle dips.

The Panyam Quartzites and Koilkuntla Lime Stone are siliceous and flaggy with intercalated good quality of Quartzites & weathered Nandyal clay. In this Thammarajupalli area Dolorite sills are intruded between Quartzites and Limestone beds. This Dolorite Sills which are highly fractured also used for Road Metal in Panyam area.

Nandyal Clay is uppermost litho unit of Kumpool group, which is purple in Colour with earthy Clay intercalations, salty cleavage and presence of puckers at the contact of Nandyal Clay with other formation indicating the effect of mild deformation.

## 2.1 Geology of the Lease area

Geologically the applied area occupied by Sedimentary rocks of Koilkuntla Limestone (Flaggy) of Panyam Series of Kurnool group of Kadapa Basin. Major litho unit exposed in the QL area is Limestone (Flaggy) with track follows beds of Dolarite sills. At the time of inspection lithological sequence observed in the nearby existing quarry leased areas on quarry face are 0–2.00 Mts Soil Cover, 2.0 – 9.0 Mts Weathered Flaggy Limestone and 10.0–40.0 Mts., Dolorite Sills which are useful for Road Metal. These Siliceous Limestone beds are black in colour jointed with irregular intervals. These beds are gently dipping towards NE direction. Because of this phenomenon it is easy to extract them into Road Metal of different sizes. These Road Metal can be used in buildings as Roof flooring and Road laying purpose. Some of the entrepreneurs in Panyam are also using this material to the various constructions and NH-18 Road.

**Topsoil:** Black cotton soils are covering the Road Metal on Top of the QL applied area with thickness of about 1.5.m and OB up to 9.0 mts which can be used as Gravel.

**b) i) Geological Plan:** Mining lease area was demarcated on the ground with reference to revenue pillars. Later the topographical survey of the area was carried out by theodalite. Based on topographical survey and geological features, collected from the surface, the surface geological plan was prepared on 1:1500 scales with 5.0m contour interval and enclosed as plate-3.

## c) Details of the Applicant: M/S. SAINATH STONE CRUSHERS Sri.Y. BALATHIMMA REDDY,

H.No: 2-23-4-18, Kareembag Colony, Banaganapalle -518124, Kurnool District.Andhra Pradesh State. Pin Code of Lease applied Area: 518124. E-mail:ybtr123@gmail.com Contact No.9440821279.

## d) Details of the Prospecting carried out

Not applicable to Road Metal Quarries

- e) Surface Plan area on scales: The surface cum Geological Plan and Cross Sections of the Q.L. Applied Area is prepared on 1 1500 & 1:1500 scale and is enclosed as Plates-3 & 4.
- f) Geological plan is enclosed as Plate-3.
- g) Geological cross sections have been shown on Plate-4.
- h) Future Program of Exploration program me planned in next five years:

As this Quarry Lease is being granted for Road Metal for the purpose to use as for constructions & Road Works & Supply for Crusher.

J) Broadly indicate the future problem of exploration with due justification taking into consideration the future tentative excavation program planned in next five years.

Table

Year	No.of boreholes (core/RC/DTH)	Grid interval	Total Meter age	No. of Pits, dimensions and volume	No. of trenches, dimensions volume
I					
II		:			
III		; m m m =			
IV	200 Met 100 Met				
V		200 MIL 100 MI			

## i) Reserves and Resources as per UNFC:

## (i) Type of Deposit as per UNFC Guidelines

Road Metal is not falling in any category of UNFC classification. It is localized mineral available anywhere utilized for construction purpose such as laying roads, construction of buildings etc., depending upon the characteristics of the rock. Granites, dolerites etc which are highly disturbed and dolomites, quartzite etc., which are not useful for any other their specific purpose of their characteristics in specified area useful for construction as Road Metal as locally.

ii) Parameter – Grade, Threshold value Sectional Area and Bulk Density:

As the ROM is intended for use in the Road Metal no specific parameters were considered. The bulk density of 2.85 is adopted for estimating the reserves.

The sectional area was considered and assumed thickness of sheet rock and 25 to 30 m on either side of the lease applied area. The Bulk Density was considered at 2.85.

ii) Status of exploration: G1

#### **GEOLOGICAL AXIS:**

- 1. Geological Survey:
- i) **Mapping:** Detailed geological survey was carried out in the area on 1:1500 scales with 5.0 meter contour interval.
- ii) **Preparation of detailed topographical cum Geological map:** The topographical cum Geological map including all surface Geological features, extent of deposit, structures, have been prepared on 1:1500 scale duly marked with surface geological features, GCP's etc. (**Plate-3**).
- iii) **Topo grid / Triangulation stations:** The topo grid with Geological cross sections has been prepared on prescribed scale showing litho-units. Relevant plans are enclosed as **Plate- 4.**
- **2. Geo-Chemical Survey:** Geo Chemical survey is not warranted. The suitability for aggregates was tested.
  - **3. Geophysical survey:** Not carried out because sheet rock of Granite is exposed 9 mts below the surface in adjacent quarries so that we have not conduct geophysical survey.
  - 4. Technological survey: Not applicable.
  - Detailed topographical and geological survey was carried out on 1:1500 scale showing all the surface features, contours at 5.0 m interval, the lease boundary, surface Geology & Structural features.
  - The entire thickness of Road Metal found to be more than 30m which was correlated from the bore hole inventory data in the adjacent lands and adjacent quarry.
  - Reserves are estimated by cross sectional method.

#### **FEASIBILITY AXIS:**

#### 1. Geology:

The detailed Geology has been detailed in Part A, Part 2 which may kindly be referred to.

## 2. Mining:

Road Metal will be exploited through opencast other than fully mechanized mining methods with drilling & Blasting. ROM will be directly consumed by the Lessee for sale by the applicant for nearest crushing plants and intended for the highways Project from Kurnool to Bangalore.

#### **Environment:**

The deposit will be mined adopting conventional opencast semi-mechanized mining methods without any adverse environmental impact. The Lessee will obtain statutory clearances as soon as this Mining Plan is approved. Mining in the leasehold does not disturb any human settlements as they are far away from the lease Proposal area. On the other hand the mining operations will create livelihood to the villagers nearby. The Lessee will develop green belt around the Q.L. Applied Area as part of his commitment to environment protection.

## 3. Processing:

After blasting the ROM will be fed directly on to the crusher for crushing in to desired sizes of aggregates.

Mining operations will be carried out by deploying the following machinery:

S.No	Type of machine	Nos	Dia of hole (inches)	Size/ capacity	Make	Motive power	H.P
1	Excavator /JCB	2		1.2 cu m	L&T	Diesel	200
2	Tippers	4	-	17 tons	-	Diesel	60
3	Drilling machines	1	3"			Diesel	
4	Tractor mounted compressors	2	2"			Diesel	3
5	Water Tankers	2					
6	Loaders	2	(A	3 cu m			

- **5. Infrastructure:** The entire necessary infrastructure such as office, rest shelter, magazine, explosive van, water tankers, power connection etc., will be provided once the mining plan is approved. The Q.L. Applied Area is connected with roads to the Banaganapalle Mandal and District headquarters of Kurnool.
- **6. Costing:** The cost of production of Road Metal works out to be Rs. 500/-per ton.
- 7. Marketing: Road Metal is not intended for outside sale. It is for captive purpose for the crusher and Hot mix plant of Lessee for use in the Highways road project from Kurnool to Nandyal.
- **8. Economic Viability:** As the proposed quarry lease is in the near vicinity and captive use it is surely economic and viable.
- **9. Other factors:** Relevant clearances shall be obtained for Staring the mining operations in the Q.L. Applied Area.

#### **ECONOMIC AXIS:**

#### 1) Detailed exploration:

Detailed topographic survey and geological mapping the Q.L. Applied Area was subjected to detailed exploration by field traverses and well inventory data. The depth of sheet rock is assessed by the lithology observed in the adjacent boreholes of agricultural lands.

## 2) Mining Reports/Mining Plan

This is the first Mining plan being submitted.

- 3) Specific end-use grades of reserves (above economic cutoff grade)
  ROM is intended for crushing to use in the aggregates for roads.
- 4) Specific knowledge of forest/non-forest and other land use data

The entire Q.L. Applied Area is covered by Compartment No.313 of Gulamalalabad South Reserve Forest, Kurnool Division Hence, considering the above parameters discussed reserves / resources are categorized as E-1 Axis.

(j) Feasibility Report along with financial analysis per economic viability of the deposit: The cost of production of Road Metal is arrived at Rs.500/- per ton inclusive of taxes and revalty. The entire ROM is for sale purpose as such it is surely economic and profit oriented.

#### (k) MINERAL RESERVES

- (i) Mode of Mining, recovery Factor, Mining Losses, Processing Losses etc., Road Metal will be mining by open cast other than fully mechanized method with drilling and blasting. The recovery factor is considered as 95% Road Metal, & 5% waste as interstitial voids and fractures because it is exposed with sheet rock. There will not be any mining losses except handling loss which will be again recovered during further loading.
- (ii) Cut off grade and Ultimate Pit depth: There is no cut off grade as the ROM will be put to use for Road Metal as aggregates. The UPL will be 340m at the North and 290m in South portion of the Q.L. Applied Area during the First to fifth year of this mining plan period.
- (iii) Mineral blocked due to the presence of / maintenance of benches, barriers, internal roads, electrical lines etc: The mineral will be blocked in 7.5m safety barrier zone, Roads, Benches which is computed separately and tabulated in the succeeding paragraphs.

## (iv) Total Mineral reserves:

The reserves are estimated basing field traverses and the lithology of the well inventory in the adjacent agricultural fields and cross sections drawn on the ore body. The area of the influence and the cross sections were taken at 27m to 30 m on an average i.e. 30.0 m on either side of the Cross section. The occurrence of the dolerite still is more than 30.0 m BGL. Based on the field traverses and correlated data from the boreholes in the adjacent agricultural lands to a depth of 100.0m, the estimated reserves are considered as Proved reserves. The cross sections A-A' & B-B' are considered for computation of reserves. The present area which is explored is considered for computation of reserves under G-1 category.

Table-2 Production RESERVES RESERVES Rock Volume Sectional sectional OF OF AGGREGATE Category Sections Waste @ Over AGGREGATE influence Cm3/ Area 5% in Burden @ 95% IN @ 2.85/m<sup>3</sup>  $m^3$ m3 IN Tons 199172 1972 101 199172 .527437 **Proved** A-A' 555197 27760 101 1503196 5497 527437 27760 555197 1503196 199172 77436 717 108 77436 204071 10741 **Proved** B-B' 1989 108 214812 581603 204071 214812 581603 10741 77436 276608 731509 2084799 38500 2689 770009 **Total** 

620384

286820

#### **ROAD METAL**

Reserves Blocked Under 7.5 M Buffer Zone=142144m<sup>3</sup>

Reserves Blocked Under Safety Slopes=316886 m<sup>3</sup>

#### **MINEABLE RESERVES**

**AFTER BUFFER ZONE** 

AFTER SLOPE DEDUCTION

S. No.	Category of Reserves	Reserves in Cu.mts.	Reserves in tons.
1	Proved	272479	776565
	TOTAL	272479	776565

Reserves of the buffer zone:

Area of buffer zone x average depth x recovery factor

=5985(  $798 \times 7.5$ )X 25 = 149625× 0.95=142144 $m^3$ 

589365

272479

Total Mine able Reserves=Total Geological Reserves - Reserves

Blocked under buffer zone i.e.

 $= 731509 - 142144 = 589365 m^3$ 

Reserves Blocked under Bench Slope =  $798 \times 418 = 333564 \times 0.95 = 316886 \, m^3$ 

Total Mineable Reserves

 $= 589365 - 316886 = 272479 \, m^3$ 

Net Mineable Reserves of Road Metal in Q L. applied area =  $272479 \, m^3$ 

Total Mineral waste available in Q L. applied area

 $= 14341 m^3$ 

Total Mineral Over Burden available in Q L. applied area

 $= 276608 m^3$ 

31019

14341

1679690

776565

271222

269705

## (v) Mineable Reserves and Life of the Oddardy

Initially, the total quantity of mineable reserves is considered as (economic) marketable reserves. In this way a total mineable reserves of  $272479\,m^3$  or 776565 tons of Road Metal is available in this Q.L. applied area. The production is proposed to obtain  $27481\,m^3$  78320 tons per year. At this rate of production, the expected life of the quarry is calculated as given below.

## (vi) Anticipated Life of the Quarry for Road Metal:

Mineable Reserves of RM / Average Annual production in cbm

= 272479/27481**=9.9 (or) 10.00 Years.** 

Mineable Reserves of RM / Average Annual production in tones

= 776565/78320**=9.9 (or) 10.00 Years** 

#### 3.0 MINING

## (i) OPEN CAST MINING METHOD (Mining Carried out)

- i) This is a new Quarry. The mining will be carried out by opencast other than fully mechanized mining method with drilling and blasting. The ROM will be sized and sorted the crusher which is going to establish south side of the quarry lease applied area and loaded on to tippers and tractors using JCB. Mining are carried out by formation of bench of height 6 mts. The details and sections are depicted on **Plate-5**.
- (ii) Year wise tentative excavation in Cubic Meters indicating development, ROM, Pit wise: About 15967m<sup>2</sup> of excavation out of which intended ROM 144636m<sup>3</sup> of Road Metal will be mined by forming two benches of 6.0 m each two benches of 4.5m each for Gravel/OB. The year wise details are tabulated below:

	RAGE TOT		28927	27481	78320	1446	27300
GR	AND TOTA	\L	144636	137404	391602	7232	136499
	15967		34386	32667	93100	1719	30083
Juli yeur	2746	6	16476	15652	44609	824	
5th year	2985	6	17910	17015	48491	896	
	3224	4.5	14508				14508
	3461	4.5	<b>33126</b> 15574.5	31470	69069	1030	15574.5
	2637	6	15822	15031	42838 <b>89689</b>	1656	29250
4th year	2884	6	17304	16439		791	
1th	3128	4.5	14076	16/20	46851	865	1-1070
	3372	4.5	15174				14076
	2272	4 5		27022	04774	13/0	15174
	2492	0	14952 <b>31392</b>	29822	84994	1570	28094
3rd year	2740	6	16440	15618 14204	40483	748	
2rd voor	3005	4.5	13523	15610	44511	822	13020
	3238	4.5	14571				13523
	2220	4.5	29106	27651	70004	1433	14571
	2300	6	13800	13110	37364 <b>78804</b>	1455	26366
2 <sup>nd</sup> year	2551	6	15306	14541		690	
	2807	4.5	12632	1 4 7 4 1	41441	765	12032
						1.	12632
	3052	4.5	13734				13734
			16626	15795	45015	831	22707
	1137	6	6822	6481	18471	341	
1 <sup>st</sup> year	1634	6	9804	9314	26544	490	
	2202	4.5	9909				9909
	2844	4.5	12798	SNO			12798
Year	Working areas m²	Bench height m	Volume (	RESERVES -	OF AGGREGATE O 2.85/ m <sup>3</sup> in Tons	Rock Waste @ 5% in m <sup>3</sup>	ОВ
			WIST &	THE PROPERTY OF	PRODU	CTION	

**1**<sup>st</sup> **year**: During first year operations it is proposed to develop the South side by covering the face into two benches of 6m height each for Road metal and two benches of 4.5m for Gravel/OB. The workings will be carried out over an area of  $2844m^2$  for Gravel/OB &  $1634m^3$  for Road metal RL 301m to 270m. The benches will be oriented in EW direction and obtained about  $15795m^3$  or 39487 tones of **Road metal**,  $831m^3$  of mineral waste and  $22707m^3$  **OB** in this year.

**2<sup>nd</sup> year:** During second year operations it is proposed to develop the North side by covering the face into two benches of 6.0 m height each for Road metal and two benches of 4.5m for Gravel/OB. The workings will be carried out over an area of  $3052\text{m}^2 \& 2551 \text{ m}^2 \text{ RL } 311\text{m}$  to 278m. The benches will be oriented in EW direction and obtained about  $27651 \, m^3$  or 69127 tones of **Road metal**,  $1455 \, m^3$  of mineral waste and  $26366 \, m^3$  **OB** in this year.

**3<sup>rd</sup> year :** During third year operations it is proposed to develop the North side by covering the face into two benches of 6m height each for Road metal and two benches of 4.5m for Gravel/OB. The workings will be carried out over an area of  $3238m^2 \& 2740m^2$  RL 322m to 289m. The benches will be oriented in EW direction and obtained about  $29822 m^3$  or 74556 tones of **Road metal**,  $1570 m^3$  of mineral waste and  $28094 m^3$  **OB** in this year.

<u>4<sup>th</sup> year</u>: During fourth year operations it is proposed to develop the North side by covering the face into two benches of 6m height each for Road metal and two benches of 4.5m for Gravel/OB. The workings will be carried out over an area of  $3372\text{m}^2$  &  $2884\text{m}^2$  RL 333m to 299m. The benches will be oriented in EW direction and obtained about  $31470 \, m^3$  or 78674 tones of **Road metal**,  $1656 \, m^3$  of mineral waste and  $29250 \, m^3$  **OB** in this year.

**5**<sup>th</sup> **year**: During fifth year operations it is proposed to develop the North side by covering the face into two benches of 6m height each for Road metal and two benches of 4.5m for Gravel/OB. The workings will be carried out over an area of  $3461\text{m}^2$  &  $2985\text{m}^2$  RL 340m to 317m. The benches will be oriented in EW direction and obtained about  $32667 \, m^3$  or 81667 tones of **Road metal**,  $1719 \, m^3$  of mineral waste and  $30083 \, m^3$  **OB** in this year.

(iii) **Dump Management:** There is proposal for Dump Yard in North West side of QL applied area with size of 1399 sq. ints in step dumping method is adopted up to 25m height. Intercalated Waste 152 and QB can be dumped in this area and also in 7.5 mts Buffer Zone. This can be used for constructions of internal roads and barriors.

	The second secon
Year Wise	Intercalated @5% Waste & OB
1st Year	831+22707
2nd Year	1455+26366
3rd Year	1570+28094
4th Year	1656+29250
5th Year	1719+30083
Total	7232+136499
i Otai	, 232 1 130 133

#### Lay out of Mine Workings, pits, roads, etc.

The Lessee intends to extract Road Metal production to the tune of ROM 144636 m<sup>3</sup> of Road Metal during the Mining Plan period on Plate No.V.

During this period, it is proposed to exploit the Road Metal from the total area of 15967m<sup>2</sup> to an average depth up to 21 m over the lease Proposed area from South to North RL 340to RL 290 m as shown on **Plate 5**.

There is no problem in the quality of Road Metal which confirms to the specifications Aggregates.

The Lessee proposes to carry out mining by opencast other than fully mechanized method with drilling and blasting. The mineral will be sized and sorted in crusher for desired size separation. Trucks / tippers will be deployed for transportation **Plate- 5.** 

## 1.1 Drilling and Blasting:

**1.2 Drilling and blasting plays an important role for extraction Rom of Road Metal.** The primary drilling is done with Crawler drills of 4.5" diameter and secondary drilling is done with jackhammers and compressor. The compressor attached to the wagon drill has 450 CFM capacity and compressor attached to jacks can cater needs of 2 jackhammers. Tippers are of 20 T capacity will be utilized for transportation from the leased area to crusher.

## **Broad parameters of blasting:**

H = Height of bench = 10 m L = Length of drill hole = 11 m B = Burden = 3.0 m S = Spacing = 3.5 m D = Diameter of the blast hole = 100 mm  $V_R$  = Vol., of broken Rock = B \* S \* L = 3.5 \* 3 \* 10 = 105 m<sup>3</sup> Volume of rock generated

from one hole =  $105 \times 2.5 \text{ sg} = 262.5 \text{ T}$ 

After blasting the rock, the excavator is used for loading tocks. The oversize buildings are dealt with secondary blasting. The material thus transported is fed to 250 TPH capacity crushing plant. The products are stored separately from where they are dispatched to customers.

## **Explosive consumption:**

Taking on powder factor basis, with a PF of 4 total explosive needed per year is 10, 00,000/4 = 250 Tons.

#### **Explosive used:**

The proponent should get permission to use ANFO and also got permission under MMR 106 (2(b)) for deep hole drilling and blasting. The explosives that are used in the quarry are ANFO, cartridge slurries for booster, Pentolite boosters and other blasting accessories.

Storage of Explosive/ Ammonium Nitrate:

The proponent should have approved explosive magazine 1 with capacity of 4.5 tons. Thus each magazine has filling permission for 10 times per month i.e. 90 tons the magazines can cater the need of explosive storage requirement. Ammonium Nitrate storage license of 100 tons at a time and twice in a month i.e., 200 tons of Ammonium Nitrate can be used in a month The client has also obtain permission for ANFO mixing shed, where the ANFO is mixed.

## **Deployment of Machinery**

The mining machinery and equipment proposed to be deployed in the mine for different mining operations during the plan period are described in the table below:

Table-5.

**Details of Mining Machinery Required** 

Purpose	Type of machinery	Capacity & Nos.	Make Atlas capco
1. Breaking	Crawler drill 4.5"	100 mm dia 450 cfm / 2 nos.	СР
2. Loading	Loader / Excavator	2 no.	
3. Haulage	Tippers	25- tonner, 6nos	
4. Water tanker	Tractor type 1 no		

- a) Conceptual Mine Planning: The worked out pit will occupy an area of 15967 m<sup>2</sup> or 1.5967 Hectares to a depth of 21 m reaching 290 m (FRL) at the South portion of the quarry lease area. The area occupied by internal roads would be 0.0200 Hectares; while plantation will be occupying an area of 0.1875 Hectares on the North & East side of the Q.L applied area. The Conceptual plan with Sections is enclosed as Plates 6.
- (b) UNDERGROUND MINING: NOT APPLICABLE.

#### 4.0 MINE DRAINAGE

- a) The Q.L. Applied Area is over an elevated mound to a height of 90.0 m above ground level. Rain water constitutes the drainage System of the area. Normal course of drainage is a sheet wash over lower reaches and flows through the seasonal nala located on South of Q.L applied area. Groundwater level is observed to be ranging in depth from 50-60 m bgl in the nearby agricultural fields.
- b) The maximum height of the working level is 340 m while the minimum level of working would be 290 m.
- c) Quantity and Quality of Water: The quality and quantity of water cannot be estimated as the mine workings are at much higher levels of the groundwater table. However, the water is tasted in the nearby agricultural field and the quality of water is found to be potable.
- d) Regional and Drainage Pattering:- The entire Q.L. Applied Area is over a sloping terrain and only sheet wash is anticipated during monsoon in the Q.L applied area. Regional drainage pattern is observed to be dendritic to subdendritic in nature.

#### 5.0 STACKING OF MINERAL REJECTS, SUB-GRADE & DISPOSAL OF WASTE

There is no mineral reject or sub-grade mineral in this quarry. However, about 5% interstitial voids and intercalated waste is anticipated which is computed separately. This will be utilized for the formation of internal roads and balance utilized to form a barrier all along the 7.5m buffer zone of the Q.L. Applied Area to a height of 2.0m.

## 6.0 USE OF MINERAL & MINERAL REJECTS

The ROM will be fed in to the sale by the applicant for nearest crushing plants where it will be crushed to desired sizes and utilized for the State & National Highway projects from Banaganapalli to Nandyal. Entire ROM is intended to use for crushers.

### 7.0 PROCESSING OF ROM & MINERAL REJECTS

In this area ROM will be sized and sorted in crusher for Road Metal and input to hot mix plant. There is no Mineral Reject from this Quarry.

#### 8.0 OTHERS

It is proposed to provide the site services like Mines office and other statutory constructions like rest shelter, first aid, work shed and drinking water as required in the lease area. Separate Shelter and toilets for Gents & Ladies will be provided at the Crusher area. Drinking water will be supplied to the workers from the bore well opened in the adjacent agriculture field.

Infrastructure facility	Location	Remarks
1. Roads	From the public road to the benches within and outside the lease	Kaccha road by using the waste from the mine with width of 10m
2. Office	Within the lease	Made of GI sheets with a dimension 8mx3m
<ol><li>Rest Shelter/cant een</li></ol>	Within the lease	Made of GI sheet with a dimension 10mx4m
4. First aid room	Within the lease	Made of GI sheet with a dimension 4mx3m

## a) **Employment Potential**:

č	a. Mines Manager(Foreman)	- 1
ı	b. Manager	- 1
(	c. Supervisor	- 1
(	d. No. of Drillers	-6
(	e. Compressor Operator	$\approx$ 1
1	f. Excavator Operator	= 1
9	g. Excavator Helper	= 1
	h. Wire saw operator	- 1
	i. Tipper Driver	- 1

## b) Safety Precautions/Safety Gear to the Personnel;

- . Pre-employment health checks for newly recruited employees.
- . Periodical health checks for all employees.
- . A well maintained unexpired first aid kit at the site.

  First aid training to supervisory personnel on site.
- Supply of sufficient fit to wear Boots, Far Muffs/Plugs, Helmets to all the personnel and goggles for Drilling crew.
- Un-authorized personnel/trespassers will be prevented from entering The quarry.

## c) Training and Safety

- The quarry personnel will be trained in their respective skills by Sponsoring them to nearest Vocational Training Centers.
- The quarrying equipment will be maintained as per the standards

  Prescribed under MMR 1961

Development in their respective field, from the nearest authorized 'Vocational Training Centre' periodically.

## d) Amenities to the site personnel:

All amenities as per labour laws like shelter, food and other welfare facilities will be provided by the applicant..

## PART-B

## PROGRESSIVE MINE CLOSURE PLAN UNDER RULE 23 OF MCDR' 1988

## 1. ENVIRONMENT BASE LINE INFORMATION

a) Existing Land use Pattern: The O.L. Applied Area is a barren land. An area of about 15967 m<sup>2</sup> will be broken to win the mineral. An area of 1875m<sup>2</sup> is proposed for a forestation. The Q.L. Applied Area is a barren land and surrounding area no forest and cultivated lands. (Plate-7)

S.NO.	Period	Item	Area In Sq. Mts	Area In Hects
1 Surface Pla		Mined out area	Nil	Nil
		Road	Nil	Nil
		Un mined area	23015	2.3015
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000
	End of the	Mined out area	15967	1.5967
plan period		including roads		
		Dump Yard	3399	0.3399
		Un mined area	3649	0.3649
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000
	End of the	Mined out area	15967	1.5967
	Conceptual	including roads		
	Plan period	Dump Yard	3399	0.3399
W		Un mined area	3649	0.3649
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000

b) Human Settlements: The Q.L. Applied Area is surrounded by 4 villages. The main occupation of the local people is agriculture, Sheep rearing and business. The details of villages, location distance and population are given in the following table:

S.No.	Name of the village	Population	Distance in km	Directions
1	Yagantipalle	984	1.9	North
2	Bhanumukkala	580	3.9	East
3	Mirapuram	657	3.0	NW
4	Battalurupadu	579	4.0	NE
5	Patapadu	458	3.5	NW

- c) Public buildings, Places of Worship and Monuments: No buildings or places and Monuments are witnessed in the Q.L applied area.
- d) Indicate any Sanctuary is located in the vicinity of the leasehold:

  No Sanctuary, eco-sensitive areas etc. are located in the vicinity of the leasehold.

## e) Flora and Fauna

The subject area is most of the area is covers rocky terrain and does not consists any major trees or major vegetation. Except the presence of reptiles and other minor wild life like rabbits, field rats etc., no major wild life exists in this area.

#### 2. ENVIRONMENTAL IMPACT ASSESSMENT:

- (a) Land Area Degraded: An area of about 15967 m<sup>2</sup> will be degraded for the working pit; and Roads 200 m<sup>2</sup>.
- **(b) Air Quality:** Road Metal mining do to some extent generates dust during drilling and blasting. This would be minimized by usage of moist clay, sprinkling of water at blasting site and haulage roads. Masks, earplugs and safety goggles will be provided to the workmen at mine to avoid the negative impacts of dust arising.

- (c) Water Quality: The subject area is part on industries and as such water is not polluted. The water drawn from bore wells will be supplied to workmen for drinking.
- (d) Noise Levels: The Q.L. Applied Alea is quite for from the habitation area situated 1.0 Kms away from Bhanumukkala Village. Noise is anticipated from drilling, blasting and movement of vehicles. As the quantum of mining is on a small scale the noise generation would be well within the limits. Therefore, the noise pollution is expected to be negligible in the area. However, the Lessee will take all precautions during drilling and blasting by providing mufflers.
- **(e) Vibration Levels due to Blasting:** As the proposed drilling is to some extent and mostly with tractor mounted compressor and blasting the vibration levels will be maintained to be within the limits.
- **(f) Water Regime:** Mining of Road Metal will be carried out on top portion of the mound in the Q.L. Applied Area to a depth of 21.0 m and in a closed environment limited to working pit. The mining activity proposed would not intersect water table of the area. The water table is observed to be 40-50 m in the adjacent boreholes of agricultural lands.
- (g) Acid Mine Drainage: Not applicable.
- **(h) Surface subsidence:** There will not be any surface subsidence as all the benches and ramp ways will be thoroughly rolled for hard surface.
- (i) Socio Economics: Mining of Road Metal will create some employment opportunities to local villagers thereby generating income and improvement in livelihood of local villagers and revenue to Government by way of paying royalty.
- **(j) Historical Monuments:** No Historical monuments are located near and around the Q.L. Applied Area .
- **(k) Bio-diversity:** The slopes of the subject area consist of scattered bushes. There is no report of existence of wild animals in this region.

3. Progressive Reclamation Plan: Mining activity will be carried out till the completion of state highway projects etc and the worked out pit will be protected with barbed wire and the mined out pit will be used as storage water pit. Hence, Progressive reclamation is not studied and will be planned in the first scheme of mining.

MINE

**4. Mined out Land:** No mined out land will be formed during this Plan period as mineral is existing much below the proposed workings during this plan period.

S.NO.	Period	Item Area In Sq. Mts		Area In Hects
1	Surface Plan	Mined out area	Nil	Nil
		Road	Nil	Nil
		Un mined area	23015	2.3015
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000
	End of the	Mined out area	15967	1.5967
	plan period	dump yard	3399	0.3399
		Road	200	0.0200
		Un mined area	3449	0.3449
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000
	End of the	Mined out area	15967	1.5967
	Conceptual	dump yard	3399	0.3399
	Plan period	Road	200	0.0200
		Un mined area	3449	0.3449
		Buffer Zone	5985	0.5985
		Total Area	29000	2.9000

The land that will be broken in the successive conceptual periods (the Life of the quarry is anticipated to be 10.00 years as of present).

#### **LAND USE**

The on-going mining and the downstream activities have covered the lease hold for about 2.5551 Hectares as detailed below:

S.No	Item	In M20	In Hects.
1	Working Pit	THE 45967	1.5967
2	Buffer Zone Area	5985	0.5985
3	Dump Yard	3399	0.3399
4	Stock Yard		
5	Buildings(In Buffer Zone)	. www.	
6	Ramp Area, Internal Road Ways	0.0200	0.0200
7	Plantation(In Buffer Zone)		
8	Total	25551	2.5551
9	Un touched area	3449	0.3449
10	Grand Total	29000	2.9000

# Proposed for reclamation of land affected by quarrying activity during and at the end of mining

No reclamation is envisaged in the life of the quarry as there are adjacent quarries that are operation. This point will be dealt while the cluster guidelines are received. Hence, no reclamation proposals are made.

## Plantation Program me:

The quarry lease area is scanty suitable for plantation as most of area is rocky. There are chances of tree growing in the East side of the quarry lease area. However it is proposed to plant a few trees in the East side of the buffer zone of quarry lease area. It is also proposed to plant a few trees nearby village area in the place shown by the village panchayat. The details of proposed plantation are shown below.

**Details of Year wise Plantation Plan** 

Year	Year wise area in sq.mts	Year wise area in Hectares	Number of Plants	Remarks
1 <sup>st</sup> Year	375	0.03752	30	
2 <sup>nd</sup> Year	375	0.0375 URNO	30	
3 <sup>rd</sup> Year	375	0.0375	30	50% of survival is
4 <sup>th</sup> Year	375	0.0375	30	envisaged.
5 <sup>th</sup> Year	375	0.0375	30	
Total	1875	0.1875	150	

All around the quarry that is in the buffer/safety zone of 7.5 meters as per AP PCB and MOEF rules, around the quarry attempts will be made to grow plants with local arrangement of drums filled with mud. Thus it is envisaged that around 10 plants will be planted and taken care of in one year. Thus the area available around the periphery will be sufficient for around 10 years.

Although the area in general is fertile the location where the quarry is situated is totally rocky. Expect for some wild growing medium sized plants that grow in the cracks of boulders; there are no notable species in the area. However trees like Neem, Ashoka, Mango, and local species Peepal are found in and around. Therefore these three species are planned for plantation. Maintenance of these plants that are grown in the buffer zone will be taken care by the quarry management. The plants that will be grown in the village will be taken care by the management, in coordination with the panchayat members.

- **5. Top Soil Management:** There is soil cover, generation from the Q.L. Applied Area as such management does not arise.
- **6. Tailing Dam Management:** No tailing dam is required.
- **7. Disaster Management and Risk Assessment:** In this area mining does not involve disaster of land etc., except degradation of land. No flooding, subsidence, land slide occur in the region. The Mines Manager will take the responsibility in the event of any unto ward incident.

In event of any emergency the Contact person

## M/S. SAINATH STONE CRUSHERS Sri.Y. BALATHIMMA REDDY

H.No: 2-23-4-18, Kareembag Colony,

Banaganapalle -518124, Kurnool District

Andhra Pradesh State.

Pin Code of Lease applied Area: 518124.

E-mail:ybtr123@gmail.com Contact No.9440821279.



## 8. Care and Maintenance during temporary discontinuance:

An emergency plan to deal with the situation of temporary discontinuance or incomplete program me due to court order / due to statutory requirements or any other unforeseen circumstance will be drawn by the technical and managerial person to suit the specific situation of this mine. This would be reviewed and modified to suit changing conditions and needs. This would take care of preventing of access to dangerous places, pits and prevent accidental fall in to the water logged pit of animals and men. Security is also to be looked in to the safety measures placed at various places like firefighting equipment, main switches etc. Security to be deployed at Explosive storage.

The mining is yet to commence. As mining continues till then the question of discontinuance does not arise. However, any untoward incidence happens the safety of the mining area will not be disturbed. Security / Watchmen will be posted at the mine site for watch and ward.

#### 9. TIME SCHEDULING FOR ABANDONMENT:

As the quarrying in the lease applied area is active proposal of abandonment is not proposed in next 5 years period.

Item	Details	Proposed	Actual	Remarks
Dump				
Management				
Management Worked our benches				
Reclamation and Rehabilitation by back filling				
Rehabilitation of waste land, within lease				

		10		Expenditure			
Items	Details	Area (Ha)	Quantity	1 Allen	Remarks		
		Proposed -	Proposed	Proposed			
	Back filling	Yes	RAJUU	J.A	Backfilling will not be done during the first five year plan period. So cost is not included.		
	Afforestation & back filled Area	Nil			2222		
Reclamation & Rehabilitation of	Others (Erecting the Barbed Wire fence around the QL area)	Nil		N.A			
mined out land	Pisciculture	Nil	***		No cost is involved for		
	Converting into water reservoir	Yes			converting the quarry pit into a water Harvesting Structure/ Pisciculture tank. As the pits gets filled during rainy periods and rise in the water table if any in the area		
	Picnic Spot	Nil		****			
	Terracing	Nil	****	222			
	Pitching	Nil	(50.00)	COTO:	(5500)		
	Construction of retaining wall at Toe of Dumps	Yes	141m x 3m	Rs.35250	(escap)		
Stabilization & Rehabilitation of Dumps (within	Construction of Chec k dams	Yes	****	****	4-5-		
lease)	Construction of garland drains	Yes	147m	Rs.22050	# 26 m. pr		
	Desilting of settling ponds, channels	Yes	(seed)	***	HEET		
	Afforestation on dumps	N.A	(25.5)	( <del>2002</del>	E755		
	Others (please Specify)		(****		****		
Rehabilitation of barren area	Green Belt	0.1875 m²	1875 m²	Rs. 330000			
within Lease	Others (Please Specify)		5555	(5,755)	ETER		
Environmental	Ambient air quality	585K	****				
	Water quality	****	2425	Rs 30,000 per	444		
Monitoring (Core zone & Buffer	Noise Level survey	***	****	per Annum)	****		
zone)	Ground Vibration	# # # # *******************************	5877	(For 5 years Rs. 1,50,000)			
	Others (Please Specify)	HARR	HH-H	1,30,000)			
	Total	0.1875		Rs 5,67,300			

#### **10. Financial Assurance:**

Financial assurance can be submitted in any len cashable from preferable a bank guarantee from a Scheduled Bank at the rates equivalent to rates prescribed for next 5 years period expiring at the end of validity of the document. 门事识

The proposed mining operations are by manual method of quarrying and by shallow drilling and blasting means and hence the cost of reclamation & rehabilitation is calculated as per the provisions of GO Ms No.53 Dated: 27-02-2019, Dept of Com & Industries, Govt. of A P the minimum financial assurance in the form of Bank Guarantee for Rs.50,000/- for below 5.000 hects, will be submitted to the Assistant Director, Department of Mines & Geology,

Banaganapalle at the time of Execution of lease deed.

S1. No.	Head	Area put on use at the start of SCHEME	Additional requirement during the SCHEME period (Ha)	Total (in Ha.)	Area considered fully reclaimed and rehabilitated	Net area considered for calculation
1	2	3	4	5	6	7
1	Area under mining	0.0000	1.5967	1.5967	Nil	1.5967
2	Storage for top soil				:+ <del>::-</del> :	
3	Overburden dump	0.0000	0.3399	0.3399	Nil	0.3399
4	Mineral storage				Nil	~
5	Infrastructure	0.0000	0.0250	0.0250	Nil	0.0250
6	Roads	0.0000	0.0200	0.0200	Nil	0.0200
7	Railways				-	
8	Tailing pond					
9	Others				-	
	SUB- TOTAL	0.0000		1.9816		1.9816
	Green Belt		0.1875	0.1875		0.1875
	Virgin area	0.0000		0.7309	Nil	0.7309
	TOTAL	2.9000		2.9000		2.9000

#### 11. Certificate:

Certified that the above mentioned points will be taken care in the Mining Plan for Road Metal over an extent of 2.900hectares (7.1659 Acres) in Compartment. No.313 of Bhanumukkala Village, Banaganapalle Mandal, Kurnool District, Andhra Pradesh State.

All statutory organizations, courts etc. have been taken into consideration and wherever any specific permission is required the Lessee will approach the concerned authorities.

All the measures proposed in this Mining Plan will be implemented in a time bound manner as proposed.

### 11.1 Plan, Section etc,

Plans and Sections are submitted along with Mining Plan.

Place: Kurnool.

**Applicant Company** 

4. Balo Thirmuce look or

(M/s. Sainath Stone Crushers)

Tan Mining Plan is approved subject to the

Conditions/Supulations indicated in the Mining Plan Approval Letter No. 2 (28/MP 20L)

Dated. 14.112/2021

00 Deputy Director of

KURNOOM

Mines & Geology (FAC),

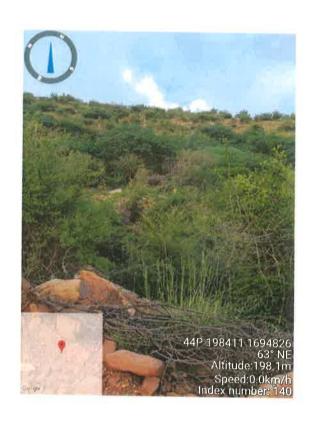
RQP

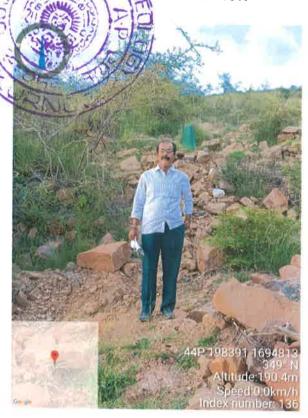
FAR KEDDY M.Sc., B.L., Ph.D.,

Recognised Geologist IBM/RQ/HYD/302/2013/A RQP/DMG/AP/07/2014

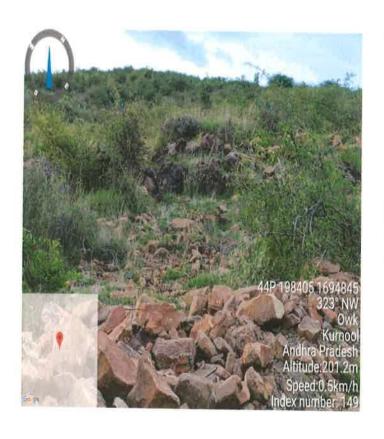
# PHTOGRAPH SHOWING THE QUARRY LEASE AREA & SHEET ROCK FORMATION

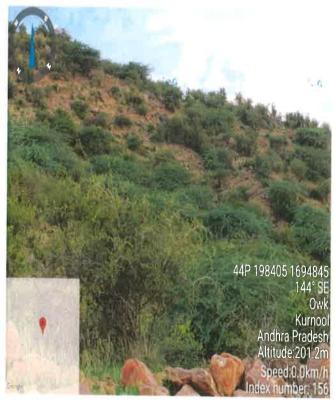
ANNEXURE





#### **PROPOSED WORKING AREA**





BOUNADRY PILLARSMEN





















Date:13/05/2017 Time:11:58 AM

MINERAL CONCESSION APPLICATION

Date of Payment: 13/05/2017

ESEVA-FKLO90 Transaction Id

TAMIN01170005614Z

Applicant Name

MS SAINATH STONE CRUSHERS

MIN011700016142

Other Quarry

Company Of Applications:

Fresh Application

Type of Applications

Chardist No.

Lease 1023

Extent Applied:

Application No.

3 Hectars

Albourd Past (in Rs.)

185.00 (Rs.35 User Charges, Rs.150 Courier Charges)

Time Limit For Final Disposit: Within 180 working days from requested date.

As the Service Tax 12.36 % is added to existing postal charges, Existing Charges Rs.33/Rs.46. New Charges (Rs. 37 / Rs. 52) will effect from 1st September 2014.

To know the Application Status, Please visit www.meeseva.gov.in.

Note: The Kiosk operator must Courier the Mineral Concession Application form along with all supporting documents to respective Asst. Director M&G. The Courier amount Rs. 150/- Shall be collected from the applicant.

Mes So 40/837-2,41-71

ANNEXURE III

## GOVERNMENT OF ANDHRA PRADESH FOREST DEPARTMENT

From
Sri N. Prateep Kumar, IFS.,
Prl. Chief Conservator of Forests &
Head of Forest Force,
Andhra Pradesh,
K.M. Munshi Road, Guntur – 522 004.

The Director of Mines & Geology, 5<sup>th</sup>& 6<sup>th</sup> Floors, Anjaneya Towers, Irbrahimpatnam, Krishna District.

#### \*\* \*\* \*\*

#### Ref. no. EFS02-15029/59/2018-FCA SEC-PCCF/FCA-1, Dated:01.08.2021.

Sir,

Sub: APFD - F (C) Act, 1980 - Diversion of forest land over an extent of 2.90 ha. in Compartment no.313, Gulamaliabad South Reserve Forest, Dhone Range, Kurnool Division & District in favour of M/s. Sainath Stone Crushers (Mg. Partner- Sri Y. BalaThimma Reddy) for grant of quarry lease for road metal - Additional information requested - Reg.

Ref: Director of Mines and Geology, Vijayawada Lr.no.21990/R4-2/2017, Dt.24.10.2017.

·· < (30 80 >··

With reference to the letter cited, it is informed that the subject proposal forwarded in the reference cited has been examined as per the check-slip communicated in PCCF & HoFF, A.P., Lr.no.45921/2021/FCA-4, dt. 15.06.2015 & 07.12.2017, which is upheld by the Hon'ble High Court in the Judgment pronounced in WP No.20102/2019 dt.27.01.2021, and found that the following information was furnished by the Director of Mines & Geology, A.P., Ibrahimpatnam as per the above instructions.

 Details of other mining leases for particular mineral (Road metal) with their capacity, average annual production and projected future requirements.

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

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

The Director of Mines & Geology, A.P., Thrahimpatham is requested to take necessary action to furnish the approved mining plan by getting from the take necessary action to furnish the approved mining plan by getting from the user agency and the information mentioned above in respect of the above subject proposal, for taking further action in the matter.

Encl:- As above.

Sd/- N. Prateep Kumar
Prl.Chief Conservator of Forests &
Head of Forest Force

Copy to the Proprietor, Sri. Y.BalaThimma Reddy, M/s. Sainath Stone Crushers, Banaganapalli (V) & (M), Kurnool District. It is requested to furnish draft mining plan to the DMG, A.P., Ibrahimpatnam for taking necessary action as per Forest Conservation Rules, 2003 and the guidelines issued under the Forest (Conservation) Act, 1980.

copy to the Conservator of Forests, Kurnool for information.

Copy to the Divisional Forest Officer, Kurnool information and he is requested to allow the representative of Mining Department authorized by DMG, AP and also the User Agency for inspection of precise forest area proposed for mining purpose.

//t.c.b.o//

Superintendent

GOVERNMENT OF AN INIME POREST BEPASTHEN

Rc.no.4424/2018/H5, Dated:10-08-2021

Ms. Suman Bentward Co.

Sub: APFD - F(C) Act, 1980 - Deviation of fivest land over an extent of 2.90 ha, in Compartment no.313, Gulamalaiabad South Reserve Forests, Dhone Range, Kurnool Division & District in favour of M/s Sainath Stone Crushers (mg. Partner-Sri Y.Balathimma Reddy) for grant of quarry lease for road metal - Additional information requested - Reg.

Ref: PCCF & HoFF, AP, Guntur Ref.no.EFS02-15029/59/2018-FCA SEC-PCCF/FCA-1, dt.01.08.2021.

A copy of the above reference is sent herewith.

It is informed that in the reference cited, the Principal Conservator of Forests & HoFF, A.P., Guntur has issued instructions that, during the video conference on 08.07.2021 with GoI, MoEF&CC, New Delhi on the issue of approved mining plan. The GoI, MoEFF&CC, New Delhi issued instructions to furnish the approved mining plan at the initial stage itself i.e., at the time of processing the proposal for Stage-I approval. Further, the Principal Chief Conservator of Forests, (HoFF), AP, Guntur has also instructed the user agency to submit the approved mining plan for the subject proposal.

Hence, the further, the Forest Range Officer, Dhone is requested to allow the user agency and the representative of Mining Department authorized by Director of Mines and Geology, A.P., Ibrahimpatnam for entry into forest and for inspection of precise forest area proposed for mining purpose and also he is requested to deploy the concerned forest staff.

Encl: As above

Sd/-Ms.Suman Beniwal District Forest Officer Kurnool

Forest Officer

The Forest Range Officer, Dhone Range

Copy to Sri Proprieter Sri Y.Bala Thimma Reddy, M/s Sainath Stone Crushers, Banaganapalli (V) Ik (M), Kurnool District.

//t.c.b.o//







# GOVERNMENT OF ANDHRA PRADESH DEPARTMENT OF MINES AND GEOLOGY

# CERTIFICATE OF REGISTRATION AS QUALIFIED PERSON TO PREPARE MINING PLAN

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

\* \* \* \* \*

Sri G. ESWAR REDDY, S/o G Pakkiri Reddy, R/o No: 13-2-155-1, Pavananilayam, Near R.T.C. Bus Stand, Ananthapuram, whose photograph and signature is affixed herein above, having given evidence of his qualification and experience is hereby granted renewal of recognition under rule 14(2) of Granite Conservation & Development Rules 1999 as Qualified Person to prepare Mining Plan.

Registration Number is:

RQP/DMG/AP/07/2014

This Recognition is valid for a period of 10 years with effect from 22.12.2014

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

GOW OF A.P.

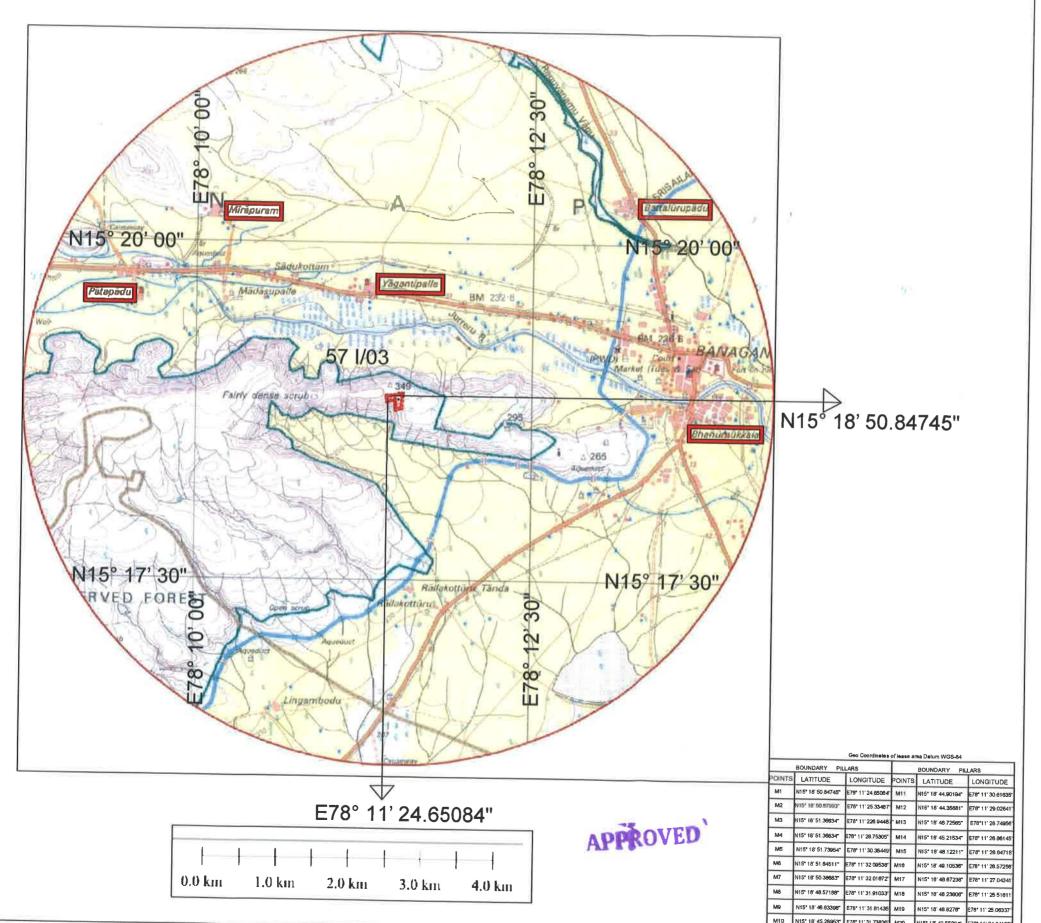
Place: Hyderabad Date: 22 . 12.2014

Director of Mines & Geology

Director of Mines and Geology

Govt. of A.P., Hyderabad

# LOCATION KEY PLAN





### **INDEX**

**划 M/S. SAINATH STONE CRUSHER** 

4.13 cla Thimme Roddy

Signature of Applicant

Signature of R.Q.P
G. ESWAR REDDY, M.Sc.,B.L.,Ph.D.,
Recognised Geologist
IBM/RQ/HYD/302/2013/A
RQP/DMG/AP/97/2014

L	Plate No:-I	
MINING P	LAN FOR ROAD META	AL
COM.No	313	
Extent	2.900 Hectare,	
Village	Bhanumukkala	
Mandal	Banaganapalli	
District	Kurnool (Dist), AndhraPrade	esh State.
Scale	1:50000	
Toposheet No	57 I/03 76*56' 52.02392"E,	15*00' 551.27351"N
Applicant	M/S. SAINATH STONE C	

Banaganapalle Bhammakkala District Mandal Village

Compt.no: 313 Field No:

Quarry lease Applied area (for Road Metal & Gravel) by Sri M/s Sainath Stone Crushers over an extent of 2.900 Hectares in Compt.no.313 of Gulamaliabad South RF, Dhone wange Kurnool Division, Bhanumukkala(V), Banaganapalli(M), Kurnool District, AP.

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777		X															

G Line TIE LINE

BM POINT

\*

FMB Line Sol Point Safety Zone area

Road Area

OLD Stone

2.270 0.610

Mining Area Safety Zone 0.020

NOTE: The DGPS Survey for the area is taken up synchronising nearest survey of GCP(SOI) is situated at Veterinary hospital. Betamcherla village, Mandal-Batamcherla, District-Kumool, A.P.SOI E:194277.385, N:1711052.398, Zone:44P

NOTE: The Survey is conducted in RTK-Mode by using HI-TARGET DGPS instrument, Model: V60, Datum: WGS - 84, Zone: 44P.



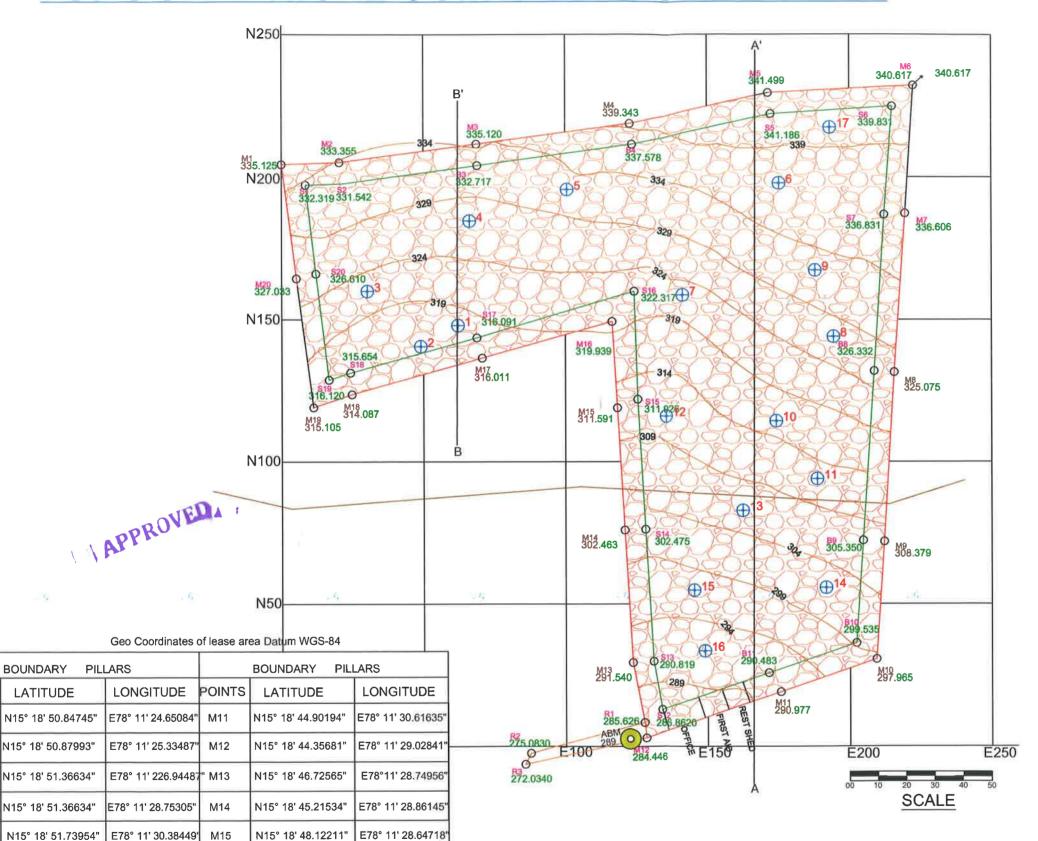
G. ESWAR REDDY, M.Sc., B.L., Ph.D. Recognised Geologist IBM/RQ/HYD/302/2013/A RQP/DMG/AP/07/2014



Scannegar Scanner Gors & Geology Banaganapalli.

Authorised Person Empanelled Agency VVN Technologies Pvf. Ltd.

# TOPOGRAPHICAL CUM GEOLOGICAL PLAN



POINTS

M2

M3

M4

M5

M6

M8

M9

M10

N15° 18' 51.84511"

N15° 18' 50.38683"

N15° 18' 48.57188"

N15° 18' 46.63398"

N15° 18' 45.28953"

M16

M17

M20

E78° 11' 32.09538"

E78° 11' 32.01672"

E78° 11' 31.81435

E78° 11' 31.73826"

E78° 11' 31.91033" M18

N15° 18' 49.10536"

N15° 18' 48.67238"

N15° 18' 48.23606"

N15° 18' 48.8276"

N15° 18' 49.55204"

E78° 11' 28,57256

E78° 11' 27.04341

E78° 11' 25.51611

E78° 11' 25.06337

E78° 11' 24.84163'



	INDEX								
<b>(</b>	ASSUMED BENCH MARK								
	LEASE BOUNDARY								
	CONTOURS								
	ROAD								
	BUFFER ZONE								
AA' BB'	SECTION LINE								
* * * *	ROAD METAL								
TIGIT	OB								
18/	BLACK SHALE								

#### MINING PLAN FOR ROAD METAL

M/S. SAINATH STONE CRUSHER
IN Compartment.No.313, Ext.2.900, Bhanumukkala (V),
Banaganapalli (M) Kurnool (District), AndhraPradesh.

#### TOPOGRAPHICAL CUM GEOLOGICAL PLAN

Applicant: M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124, Kurnool District, Andhra Pradesh State.

CONTOURS INTERVAL:- 5m

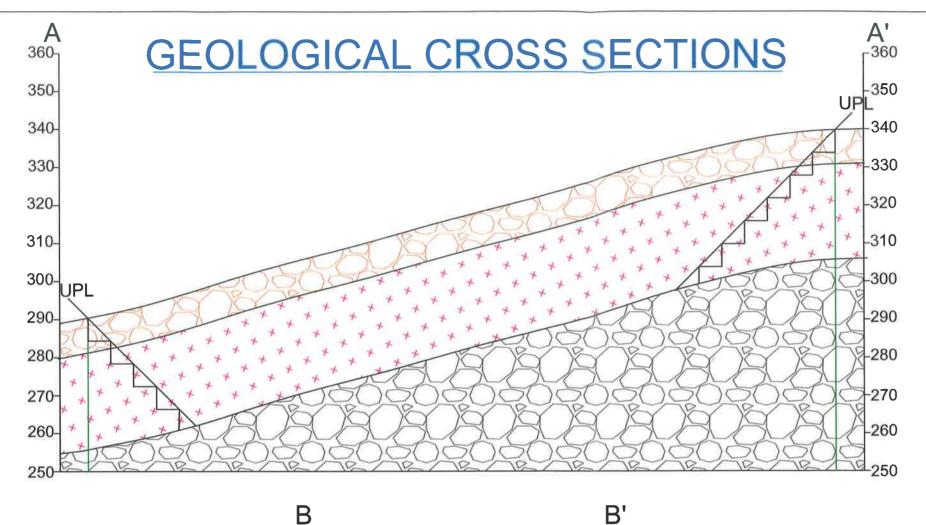
SCALE:- 1:1500

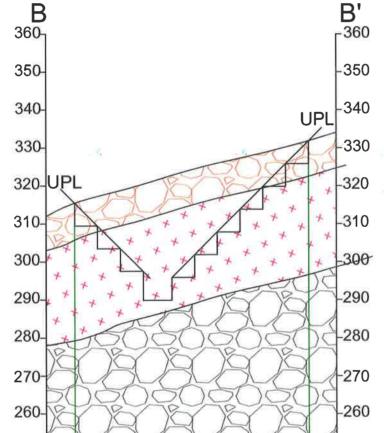
4-Bola Thimme Notal

Signature of Applicant

Signature of R.Q.P

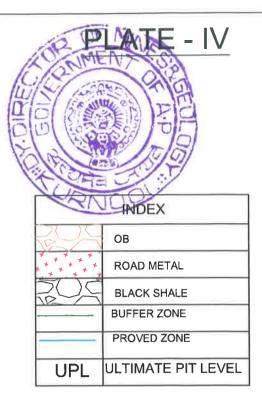
G. ESWAR REDDY, M.Sc.,B.L.,Ph.D.,
Recognised Geologist
IBM/RQ/HYD/302/2013/A
RQP/DMG/AP/07/2014





**SCALE** 

Y APPROVED



#### MINING PLAN FOR ROAD METAL

M/S. SAINATH STONE CRUSHER
IN Compartment.No.313, Ext.2.900, Bhanumukkala (V),
Banaganapalli (M) Kurnool (District), AndhraPradesh.

#### **GEOLOGICAL CROSS SECTIONS**

Applicant:- M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124, Kurnool District, Andhra Pradesh State.

CONTOURS INTERVAL:- 5m

SCALE:- 1:1000

V-Bola Thirmo Rody

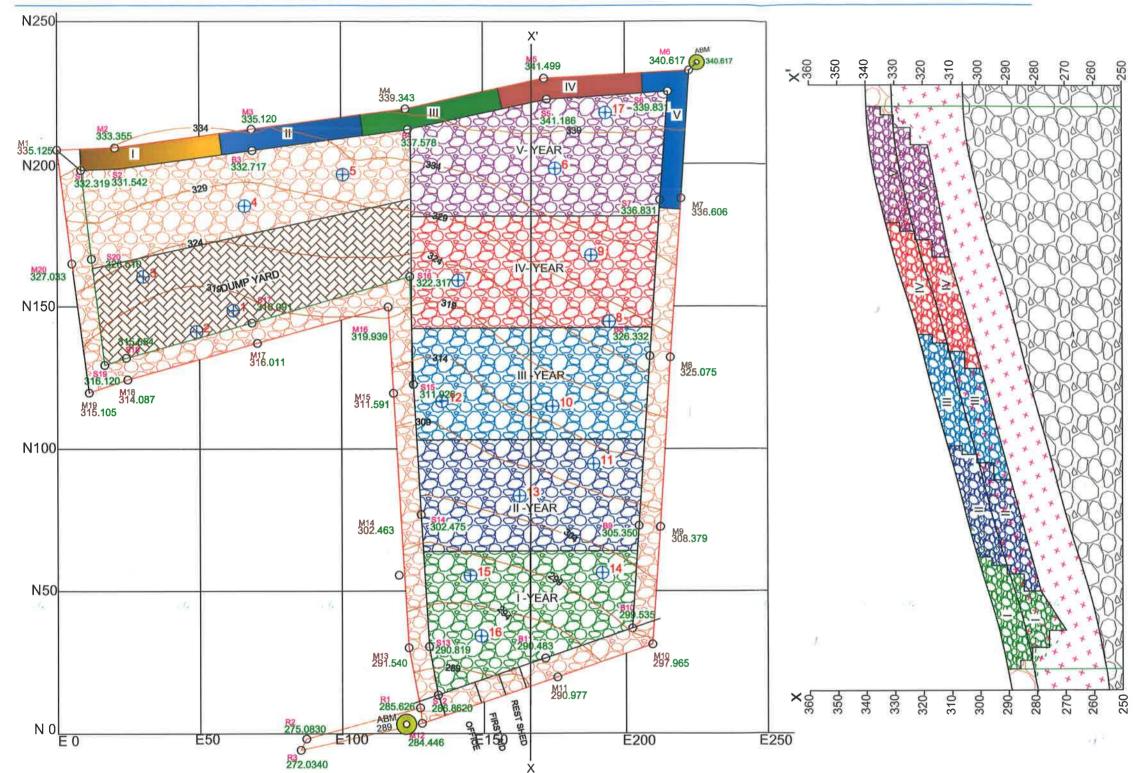
Signature of Applicant

Signature of R.Q.P

G. ESWAR REDDY, M.Sc.,B.L.,Ph.D.,
Recognised Geologist

IBM/RQ/HYD/302/2013/A RQP/DMG/AP/07/2014

## YEAR WISE WORKING PLAN & SECTIONS FOR FIVE YEARS

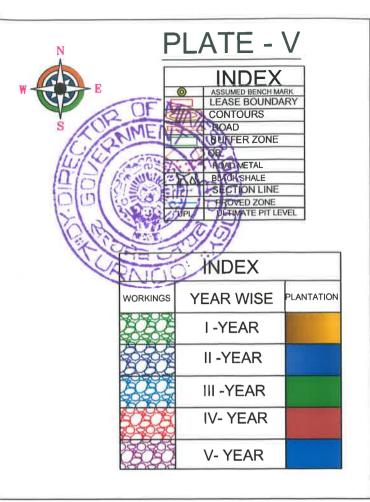


ക്ക	Coordinates	of	lease	area	Datum	WGS-8	34
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		Geo Coordinates	of lease ar	ea Datum WGS-84				
	BOUNDARY PIL	LARS	BOUNDARY PILLARS					
POINTS	LATITUDE	LONGITUDE	POINTS	LATITUDE	LONGITUDE			
M1	N15° 18' 50,84745"	E78° 11' 24 65084"	M11	N15° 18' 44 90194"	E78° 11' 30,61635'			
M2	N15° 18' 50 87993"	E78° 11' 25,33487"	M12	N15° 18' 44 35681"	E78* 11' 29,02841			
МЗ	N15° 18' 51 36634"	E78° 11' 226 9448	" M13	N15° 18' 46,72565"	E78°11' 28,74956			
M4	N15° 18' 51,36634"	E78° 11' 28 75305"	M14	N15° 18' 45 21534"	E78° 11' 28,86145			
M5	N15° 18' 51.73954"	E78° 11' 30,38449	M15	N15° 18' 48 12211"	E78° 11' 28,64718			
M6	N15° 18' 51,84511"	E78° 11' 32,09538"	M16	N15° 18' 49 10536"	E78° 11' 28.57256			
M7	N15° 18' 50,38683"	E78° 11' 32,01672'	M17	N15° 18' 48,67238"	E78° 11' 27,04341			
M8	N15° 18' 48,57188"	E78° 11' 31,91033"	M18	N15° 18' 48,23606"	E78° 11' 25,51611			
MĐ	N15° 18' 46,63398"	E78° 11' 31,81435	M19	N15° 18' 48 8276"	E78° 11' 25,06337			
M10	N15° 18' 45 28953"	E78° 11' 31,73826'	M20	N15° 18' 49,55204"	E78° 11' 24 84163			

APPROVED.





#### MINING PLAN FOR ROAD METAL

M/S. SAINATH STONE CRUSHER
IN Compartment.No.313, Ext.2.900, Bhanumukkala (V),
Banaganapalli (M) Kurnool (District), AndhraPradesh.

YEAR WISE WORKING PLAN & SECTIONS FOR FIVE YEARS

Applicant:- M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124, Kurnool District, Andhra Pradesh State.

CONTOURS INTERVAL:- 5m

SCALE:- 1:1500

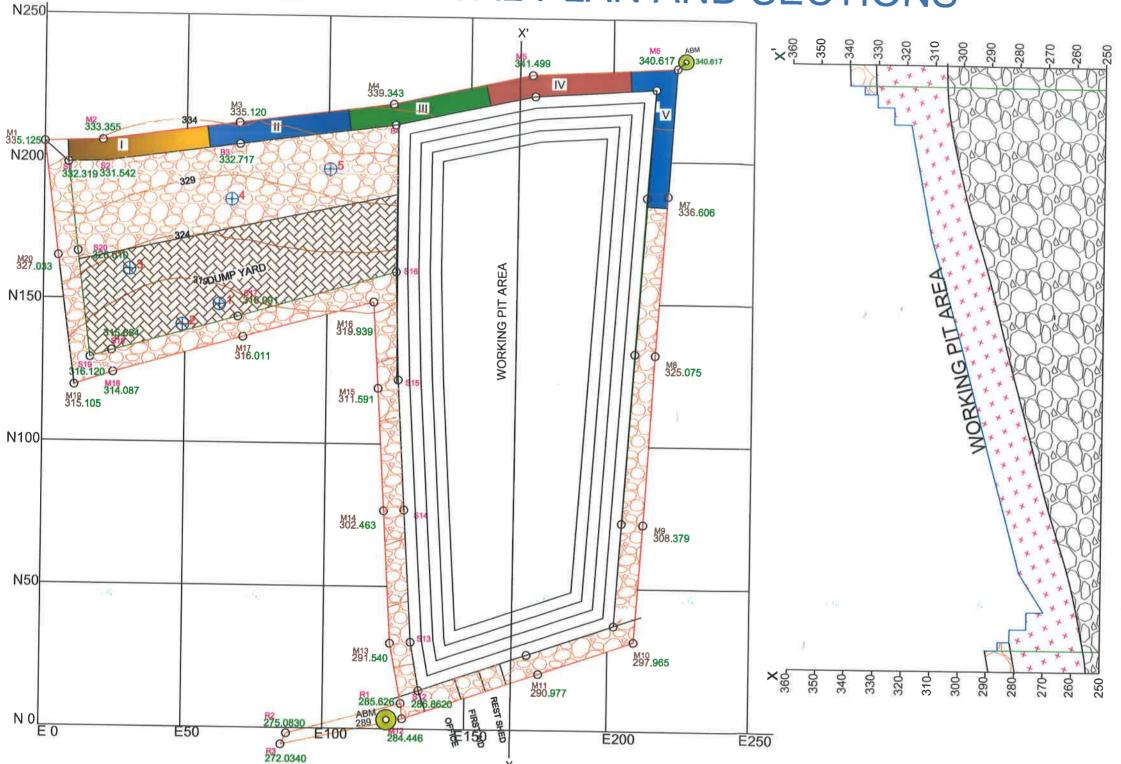
y Bola Thirmelody

Signature of Applicant

Signature of R.Q.P

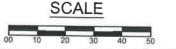
G. ESWAR REDDY, M.Sc.,B.L.,Ph.D., Recognised Geologist IBM/RQ/HYD/302/2013/A RQP/DMG/AP/07/2014

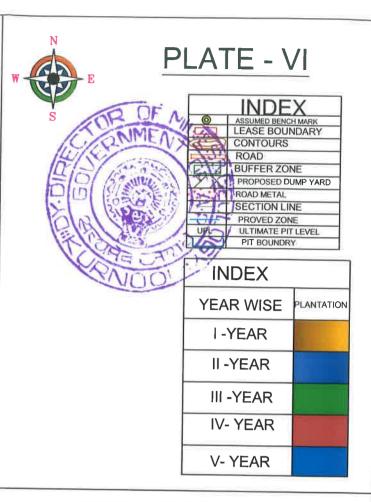
# CONCEPTUAL PLAN AND SECTIONS



		Geo Coordinates	of lease a	rea Datum WGS-84				
	BOUNDARY PIL	LARS	BOUNDARY PILLARS					
POINTS	LATITUDE	LONGITUDE	POINTS	LATITUDE	LONGITUDE			
M1	N15° 18' 50.84745"	E78° 11' 24,65084"	M11	N15° 18' 44,90194"	E78° 11' 30.61635			
M2	N15° 18' 50 87993"	E78° 11' 25 33487"	M12	N15° 18' 44,35681"	E78° 11' 29,02841			
МЗ	N15° 18' 51 36634"	E78° 11' 226 9448	* M13	N15° 18' 46 72565"	E78°11' 28,74956			
M4	N15° 18' 51 36634"	E78° 11' 28 75305"	M14	N15° 18' 45,21534"	E78° 11' 28,86145			
M5	N15° 18' 51,73954"	E78° 11' 30 38449'	M15	N15° 18' 48,12211"	E78° 11' 28.64718			
Мв	N15° 18' 51_84511"	E78° 11' 32 09538"	M16	N15° 18' 49 10536"	E78° 11' 28 57256			
М7	N15° 18' 50,38883"	E78° 11' 32 01672"	M17	N15° 18' 48,67238"	E78° 11' 27.04341			
М8	N15° 18' 48.57188"	E78° 11' 31,91033"	M18	N15° 18' 48 23606"	E78° 11' 25,51611			
M9	N15° 18' 46,63398"	E78° 11' 31.81435'	M19	N15° 18' 48.8276"	E78° 11' 25 06337"			
M10	N15° 18' 45 28953"	E78° 11' 31,73826"	M20	N15° 18' 49,55204"	E78° 11' 24,84163'			

APPROVED





### MINING PLAN FOR ROAD METAL

M/S. SAINATH STONE CRUSHER
IN Compartment.No.313, Ext.2.900, Bhanumukkala (V), Banaganapalli (M) Kurnool (District), AndhraPradesh.

## CONCEPTUAL PLAN AND SECTIONS

Applicant:- M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124, Kurnool District, Andhra Pradesh State

CONTOURS INTERVAL:- 5m

SCALE:- 1:1500

Y-Bela Wirma Boy

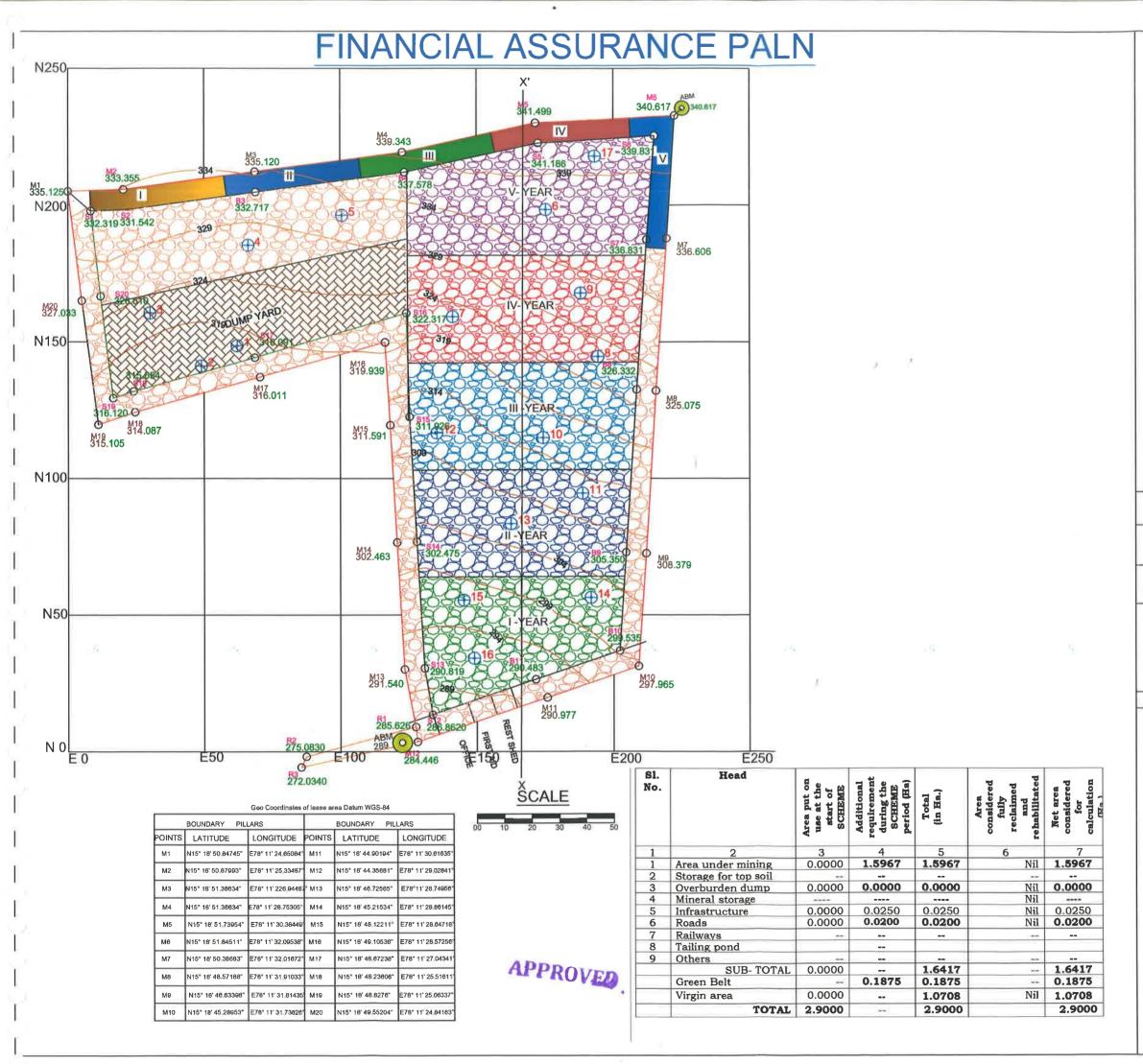
Signature of Applicant

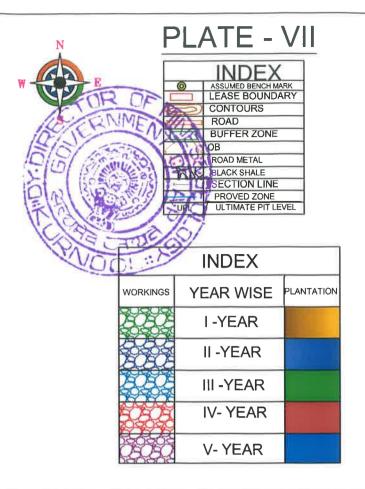
Signature of R.Q.P
G. ESWAR REDDY, M.Sc.,B.L.,Ph.D., **Recognised Geologist** IBM/RQ/HYD/302/2013/A

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE

RQP/DMG/AP/07/2014

IS TRUE AND CORRECT TO THE BEST OF KNOWLEDGE BASED UP ON LEASE MAP AUTHENTICATED BY STATE GOVERNMENT.





#### MINING PLAN FOR ROAD METAL

M/S. SAINATH STONE CRUSHER IN Compartment.No.313, Ext.2.900, Bhanumukkala (V), Banaganapalli (M) Kurnool (District), AndhraPradesh

#### FINANCIAL ASSURANCE PLAN

Applicant: M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124. Kurnool District. Andhra Pradesh State

CONTOURS INTERVAL:- 5m

SCALE:- 1:1500

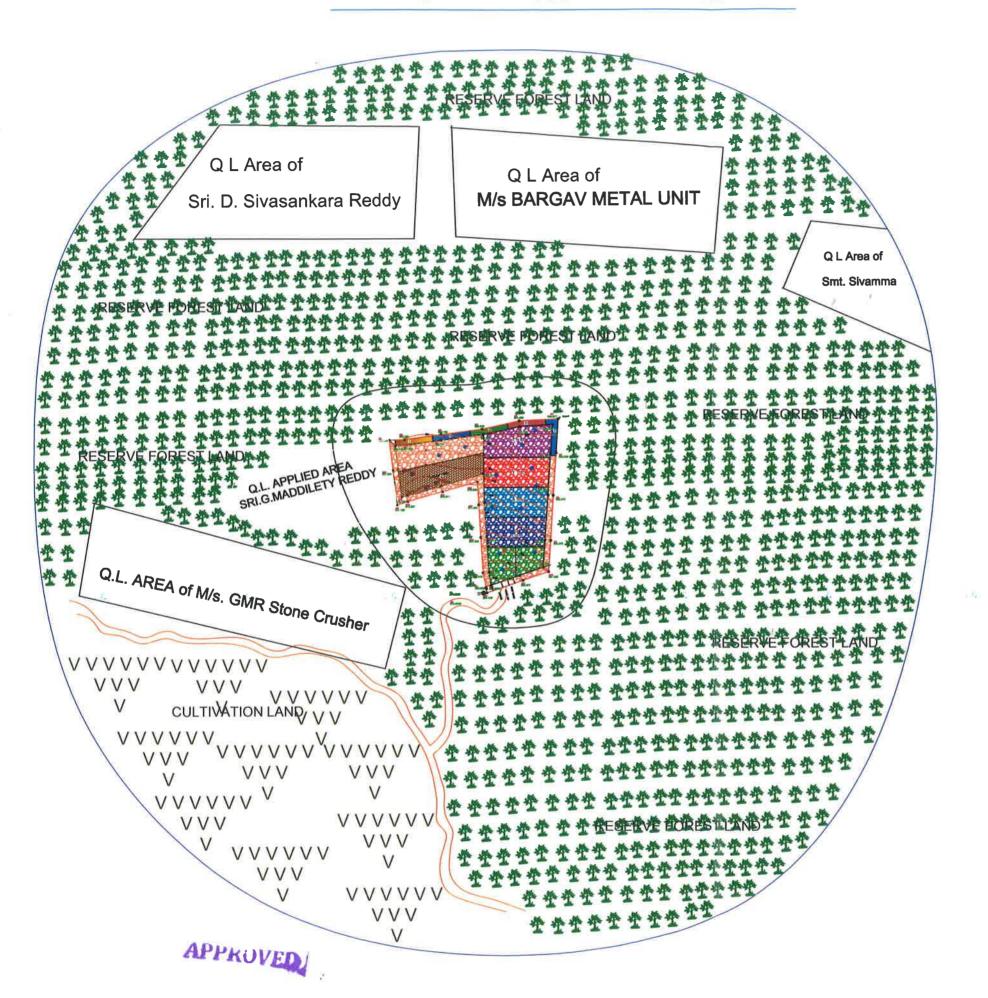
4-Bela Thirma Soddy

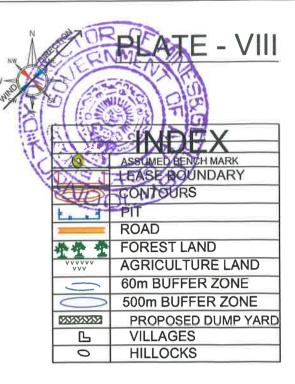
Signature of Applicant

Signature of R.Q.P.

G. ESWAR REDDY, M.Sc., B.L., Ph.D., **Recognised Geologist** IBM/RQ/HYD/302/2013/A RQP/DMG/AP/97/2914

# **ENVIRONMENT PLAN**





#### MINING PLAN FOR ROAD METAL

### M/S. SAINATH STONE CRUSHER

IN Compartment.No.313, Ext.2.900, Bhanumukkala (V), Banaganapalli (M) Kurnool (District), AndhraPradesh.

#### **ENVIRONMENT PLAN**

Applicant:- M/S. SAINATH STONE CRUSHERS,

H.No:2-41, Fort Area, Banaganapalli-518124, Kurnool District, Andhra Pradesh State.

CONTOURS INTERVAL:- 5m

SCALE:- 1:5000

Signature of Applicant ,

4 Bala Thirma Boots

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Signature of R.Q.P

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Recognised Geologist
IBM/RQ/HYD/302/2013/A

RQP/DMC/AP/07/2014