

**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

From  
Sri Y. Madhusudhana Reddy,  
IFS.,  
Prl. Chief Conservator of  
Forests  
Head of Forest Force  
Andhra Pradesh,  
Mangalagiri-522503.

To,  
The Spl. Chief Secretary to Government,  
Environment, Forests, Science & Technology  
Department,  
Andhra Pradesh,  
Velagapudi - 522 503.

**Ref.no. EFS02-15/02/2018- FCA- SEC PCCF/FCA-3,**  
**dated:20/11/2023.**

Sir,

Sub APFD – F (C) Act, 1980 – Diversion of 16.39 ha forest land in compartment no.750 of Tadepalli PF, D.Velamalakota Beat, Seethapalli Section, Sudikonda Range and Sy.no.37 & 38 of Maddiveedu, H/o.Tadepalli (V) Maredumilli (M), Rampachodavaram Division for quarrying of Laterite in favour of President, Rajiv Tribal Q.L.C.C.S.Ltd.- Additional information requested – Submission of report - Reg.

Ref: 1. Prl.CCF&HoFF,AP,Mangalagiri Rc.no.EFS02-15/02/2018/FCA-3,  
dt.17.08.2023.  
2. GoAP, EFS&T(II), dept. Memo no.1862/Sec.11/2023/2189894  
dt.14.09.2023.  
3. CCF/CF, Rajamundry Ref.no. 4949/2018 -D1 dt.14.11.2023

ॐ×ॐॐॐॐॐॐ

Kind attention is invited to the reference 2<sup>nd</sup> cited.

As instructed, the modified approved mining plan has been obtained from the District Mines & Geology Officer, Kakinada through Chief Conservator of Forests/ Conservator of Forests, Rajahmundry in the reference 3<sup>rd</sup> cited.

Copy of the modified approved mining plan is submitted herewith for necessary action for onward submission of the proposal to Government of India, MoEF &CC, IRO, Vijayawada to accord forest clearance under Section-2 of Forest (Conservation) Act, 1980 and amendments therein as deemed fit in the matter.

Encl: As above.

Yours faithfully,  
Y Madhusudhana Reddy Ifs  
Prl. Chief Conservator of Forests&  
Head of Forest Force

Copy to the Chief Conservator of Forests, Rajahmundry Circle, Rajamahendravaram and the Divisional Forest Officer, Rampachodavaram for information.



Copy to the President, Rajiv Tribble Quarry Labour Contract Cooperative Society Ltd., Dr.no.1-153, Peddaveedhi, Tadepalli, Maredumilli Mandal, East Godhavari District - 533295 for information and necessary action.





**GOVERNMENT OF ANDHRA PRADESH  
FOREST DEPARTMENT**

Rc.no.4949/2018 -D1,  
Dated:14-11-2023.

Office of the Conservator of Forests  
Rajahmundry Circle, Rajamahendravaram.

From  
Sri.Y.Srinivasa Reddy, IFS.,  
Chief Conservator of Forests,  
Rajahmundry Circle,  
Rajamahendravaram.

To  
The Prl.Chief Conservator of Forests &  
Head of Forest Force,  
Andhra Pradesh,  
Aranya Bhavan,  
P.V.S.Land Mark, Mangalagiri,  
Guntur District,522503.

**Sir,**

**Sub:** APFD-F.C.Act,1980 – Diversion of 16.39 ha (Mining area 14.89 ha + Safety zone area 1.44 ha+Approach road area 0.06 ha) Forest Land for mining/Quarrying lease of Laterite in compt.No.750 of Tadepalli PF, D.Velamalakota Beat, Seethapalli Section, Foulkspeta Range, Survey no.37 & 38 of Maddiveedu, H/o Tadepalli (v), Maredumilli (M) of Rampachodavaram division for Quarrying of Laterite in favour of M/s Rajiv Tribal Q.L.C.C.S Ltd., - Revised Mining Plan submitted – Reg.

- Ref:** 1. Online proposal No.FP/AP/QRY/141630/2021,  
2. GoAP,EFS&T(Sec-II),dept.Memo.no.1862/Sec.11/2023/ 2189894 dt.14.09.2023.  
3. Prl. C.C.F & HoFF, A.P, Mangalagiri Rc.no. EFS02-15/02/ 2018- FCA – SEC PCCF/ FCA -3 dated 22.09.2023.  
4. DFO, Rampachodavaram, Rc.No.2422/2019-D1, Dt: 10.11.2023.

\*\*\*\*\*

It is submitted that the proposals under F.C.Act,1980 for diversion of 16.39 ha. of forest land in Compartment No.750 of Tadepalli PF of D.Velamalakota Beat, Seethapalli Section, Sudikonda Range of ASR District, Rampachodavaram Division for Quarrying of Laterite in favour of President, Rajiv Tribal Q.L.C.C.S Ltd submitted have been forwarded to the Government vide Prl.Chief Conservator of Forests & HoFF, Andhra Pradesh, Mangalagiri.

The Spl. Secretary to Government vide reference 2<sup>nd</sup> cited and the Principal Chief Conservator of Forests& HoFF, Andhra Pradesh, Mangalagiri vide reference 3<sup>rd</sup> cited have requested to examine the modified approved



mining plan and furnish detailed report along with specific remarks for further processing of the proposal.

In this context, it is submitted that the Divisional Forest Officer, Rampachodavaram has reported vide reference 4<sup>th</sup> cited that the President of M/s Rajiv Tribal Q.L.C.C.S Ltd., Maredumilli has approached the District Mines & Geology Officer, Kakinada and requested to make certain modifications in the mining plan as required. As per the request of M/s Rajiv Tribal Q.L.C.C.S Ltd., Maredumilli, the District Mines & Geology Officer, Kakinada has revised mining plan.

The Divisional Forest Officer, Rampachodavaram vide reference 4<sup>th</sup> cited has submitted the revised mining plan in three (3) copies furnished by M/s Rajiv Tribal Q.L.C.C.S Ltd., Maredumilli to forward the same to Government.

The revised mining plan in three (3) copies is submitted herewith for further processing of the proposal.

This is submitted for favour of information and necessary action.

Encl:- as above.

Yours faithfully,  
Sd/- Y.Srinivasa Reddy,  
Chief Conservator of Forests,  
Rajahmundry Circle,  
Rajamahendravaram.

Copy to the Divisional Forest Officer, Rampachodavaram for information.

// t.c.b.o //

T. Dingamadhuri  
14/11/2022  
Technical Officer



**Government of Andhra Pradesh  
Forest Department**

Rc.No.2422/2019-D1,  
Dated.10-11-2023.

Office of the District Forest Officer,  
Rampachodavaram Division,  
Rampachodavaram

From  
Sri.G.G.Narentheran, I.F.S.,  
Divisional Forest Officer,  
Rampachodavaram Division,  
Rampachodavaram.

To  
The Chief Conservator of Forests,  
Rajahmundry Circle  
Rajamahendravaram.

Sir,

Sub: APFD- F(c) Act, 1980 - Diversion of 26.57 ha. of forest land in compartment no.750 of Tadepalli PF, D.Velamalakota Beat, Seethapalli Section, Sudikonda Range, and Sy.no.37 & 37 of Maddiveedu, H/o Tadepalli (V) Maredumilli (M) of ASR District, Rampachodavaram Division for quarrying of Laterite in f/o President, Rajiv Tribal Q.L.C.C.S Ltd., - Revised Mining plan submission of - Reg.

- Ref: 1.Government of Andhra Pradesh EFS&T (Sec-II) Department Memo No.1862/Sec.11/2023/2189894, dt.14.09.2023.  
2.PCCF & HoFF,A.P, Maangalagiri, Rc.No.EFS02-15/02/2018-FCA - SEC PCCF/FCA-3, Dt:22.09.2023, Communicated by Chief Conservator of Forests, Rajamahendravaram, vide Rc.No. 4949/2018-D1, Dt.25.09.2023.  
3.This office Rc.No.2422/2019/D1,Dt.09/11/2023.  
4. District mines & Geology Officer, Kakinada.Lr.No.3498/ Laterite /2022, dt. 28.10.2023.  
5. The president M/s Rajiv Tribal Q.L.C.C.S Ltd. Letter dt.10/11/2023.

\*\*\*

It is submitted that, the Special secretary of EFS&T, AP, Amaravathi and the Principal Chief Conservator of Forests (HoFF), Andhra Pradesh, Mangalagiri have issued instructions in the references 1<sup>st</sup> & 2<sup>nd</sup> cited above to examine the modified approved mining plan and furnish a detailed report for further processing of the proposal.

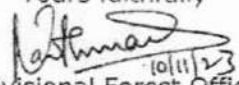
In this connection, a letter was addressed to the President of M/s Rajiv Tribal Q.L.C.C.S. Ltd. has requested to review the mining plan and submit a revised mining plan for further processing.

The President of M/s Rajiv Tribal Q.L.C.C.S. Ltd. has approached the District Mines & Geology Officer, Kakinada for partial modifications in the mining plan. As per their request, the District Mines & Geology Officer, Kakinada has revised the mining plan.

In the reference 5<sup>th</sup> cited, the President of M/s Rajiv Tribal Q.L.C.C.S. Ltd has submitted the revised mining plan to this office the same submitted here with for onward submission to Principal Chief Conservator of Forests (HoFF), Andhra Pradesh, Mangalagiri.

This is submitted for favour of information.

Yours faithfully

  
10/11/23  
Divisional Forest Officer,  
Rampachodavaram Division,  
Rampachodavaram.

10/11/23



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

**From**

Sri E.Narasimha Reddy,  
District Mines and Geology Officer,  
2<sup>nd</sup> floor, Viswa house,  
Kakinada.

**To**

M/s Rajiv Tribal Quarry LCC Society  
Limited, President: Sri A.Somi Reddy,  
Tadepalli Village,  
Maredumilli Mandal,  
East Godavari District.

**Letter No.3498/Laterite/2022, Dated:28.10.2023.**

Sub:- **Mines & Quarries** – Scheme of Mining Plan for Laterite over an extent of Hect 16.390 (as per DGPS sketch approved by the ADM&G, Rajamahendravaram) in Compartment No 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division in favour M/s Rajiv Tribal Quarry LCC Society Limited, Rep. by President: Sri A.Somi Reddy for Five years (2023- 2024 to 2027-28) Approval of Partial modification of Scheme of Mining plan Including Progressive mine closure Plan- Reg.

Ref:- 1. This office Letter No.3498/Laterite/2022. Dated: 02.08.2023 addressed to the applicant.  
2. Lr. Dated Nil of M/s Rajiv Tribal Quarry LCC Society Limited, President: Sri A. Somi Reddy.  
3. Proce.No.28594/P.RQP/01, Dt.13.05.2016 of the Director of Mines and Geology, Hyderabad.

\*\*\*\*\*

In the reference 1 cited, Scheme of Mining plan for Laterite over an extent of Hect 16.390 (as per DGPS Sketch approved by the ADM&G, Rajamahendravaram) in Compartment No.750 of Tadepalli Protected Forest D.Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division was approved in favour of M/s Rajiv Tribal Quarry LCC Society Limited, President: Sri A. Somi Reddy.

Through the reference 2 cited, the applicant has requested this office for Partial modification of introduction in the Mining plan without any change in the production of mineral which was approved by this office vide Letter No. 3498/Laterite/2022, Dated: 02.08.2023.

In exercise of the powers conferred by the Director of Mines and Geology, Andhra Pradesh, Hyderabad through the reference 3<sup>rd</sup> cited, I hereby approve the Partial modification in the introduction part of the Mining plan including Progressive mine closure Plan without any change in the production of mineral for Laterite over an extent of Hect 16.390 (as per revised DGPS sketch approved by the ADM&G, Rajamahendravaram) in Compartment No.750 of Tadepalli Protected Forest, D.Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division for Five years in the i.e., 2023-2024 to 2027-28) in favour of M/s Rajiv Tribal Quarry LCC Society Limited, Rep.by President: Sri A. Somi Reddy subject to the following conditions:

1. This Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to time whether made by the Central Government, State Government or any other authority or any order / direction from any court of competent jurisdiction.
2. The approval of the aforesaid Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulation and Development) Act 1957 or the A.P. Minor Mineral Concession Rules 1966, or the other Rules framed there under and any other laws including the Forest Conservation Act, 1980, Forest conservation Rules, 2003 and also other relevant status, orders, guidelines as the case may be applicable from time to time.



3. The Mining Plan is approved subject to strictly adhering to the APMMC Rules, 1966 Relevant Regulations and Rules of Metalliferrous Mines Regulations, 1961, provisions of the Mines Act, 1952 and other Rules and Regulations made there under.
4. Prior permission from the Director General, Mines Safety shall be obtained whenever and where ever it is required.
5. Clearance / Consent / No objection from Ministry of Environment and Forest, Central pollution control Board, State pollution Control Board as applicable in this case should be obtained and a copy of the same should be submitted to this office.
6. The execution of approved plan of Mining Plan shall be subject to vacation of prohibitory order / notices if any issued by competent authority.
7. The Mining Plan approval is for proposals contained therein and as applicable for the mining activities to be carried out for the years (2023- 2024 to 2027-28) for the Mining lease granted.
8. If anything found to be concealed as required by the Acts and Rules pertaining to quarrying in the contents of approved mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document is found to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.
9. The Scheme of Mining is valid subject to Construction of permanent boundary Pillars as per DGPS Sketch approved by the Assistant Director Mines & Geology. Rajamahendravaram and submit the photographs to the DM&GO, Paderu before commencement of the quarry operations.
10. The lessee has directed to submit the fresh chemical Analysis reports to the DM&GO, Paderu before commencement of the quarry operations.

Encl: Approved Mining plan.

Yours faithfully,

*E. Narasimha Reddy*  
District Mines and Geology Officer,  
Kakinada.

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

Copy submitted to the Member Secretary, State Environmental Impact Assessment Authority, Visakhapatnam along with approved Mining Plan for information.

Copy to Sri V.T.Chander, RQP, RQP/DMG/AP/01/2022, H.No 10-1, Flat No.202, Mahalaxmi Ganapathi Complex, KPHB-13th Phase, Hitch City- JNTU-Road, Hyderabad-500072.

Copy to the DM&GO, Paderu along with A.M.P. with a direction to obtain Bank Guarantee as Financial Assurance as per APMMC Rules 1966, obtain environmental clearance as per the procedure mentioned in the Notification S.O.N141(E), Dt 15.01.2016 of the Ministry of Environment and Forest and Climate Change from the applicant.



**SCHEME OF MINING**  
**INCLUDING PROGRESSIVE MINE CLOSURE PLAN**  
**FOR**  
**LATERITE**

(Under Rule 7 A (1) of APMMC Rules, 1966 & Rule 7 A (3) of APMMC, 1966)

**OTHER THAN FULLY MECHANISED OPENCAST 'A' CATEGORY**

**(FOR THE SCHEME PERIOD FROM 2023 - 24 TO 2027 - 28)**

Extent	16.390 Hectares (40.50 Acres)
Compartment No.	750 of Tadapalli Protected Forest
Beat	D. Velamalakota
Range	Foulkspeta
Division	Rampachodavaram
State	Andhra Pradesh
Category	Other Than Fully Mechanised Opencast 'A' Category
Classification of Land	Protected Forest

**LESSEE**

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**

Registered with R. C. No. 1596 / 2010 C

President : A. Somireddy

Tadapalli Village, Maredumilli Mandal

East Godavari District

Andhra Pradesh State

Mobile No. 94406 70917

**Prepared By**

**V.T. CHANDER**

Consultant Geologist & RQP

Regn. No. RQP / DMG / AP / 01 / 2022

H.No. 10-1, Flat No. 202, Mahalaxmi Ganapathi Complex,

Sai Baba Temple Lane, Opp. Bangalore Iyengar Bakery,

P & T Colony, Dilsukhnagar, Hyderabad - 500 060.

☎ : 040- 40138229 📠 : 93933 83357

Website : [www.ccgeotechnicals.com](http://www.ccgeotechnicals.com)

Email : [ccgeoengg@yahoo.com](mailto:ccgeoengg@yahoo.com), [ccgeoengg@gmail.com](mailto:ccgeoengg@gmail.com)



### DECLARATION

Certified that the Scheme of Mining including Progressive Mine Closure Plan prepared in consultation with me in respect of our Laterite over an extent of 16.390 Hectares (40.50 Acres) in the Diversion of Forest Land Falling in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Foulkspeta Range, Rampachodavaram Division, Andhra Pradesh State, and we understood its contents and agree to implement the same in accordance with law.



RAJIV TRIBAL QUARRY LABOUR  
CONTRACT CO-OP. SOCIETY LTD.

*A. Soma Reddy*  
LESSEE  
PRESIDENT

Date :

Place :

M/s RAJIV TRIBAL QUARRY LCC  
SOCIETY LIMITED



## CERTIFICATE

Certified that the Provisions of Mines Act, Rules and Regulations made there under observed in the Scheme of Mining including Progressive Mine Closure Plan and wherever specific permission is required, I will approach the Director of Mines Safety for their specific approval.

Certified that the Scheme of Mining including Progressive Mine Closure Plan prepared in consultation with me in respect of Laterite over an extent of 16.390 Hectares (40.50 Acres) in the Diversion of Forest Land Falling in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Foulkspeta Range, Rampachodavaram Division, Andhra Pradesh State, is prepared in consultation with us and we understood its contents and agreed to implement the same in accordance with the act.



RAJIV TRIBAL QUARRY LABOUR  
CONTRACT CO-OP. SOCIETY LTD.

*A. Somu Reddy*  
PRESIDENT  
LESSEE

Date :

Place :

M/s RAJIV TRIBAL QUARRY  
LCC SOCIETY LIMITED

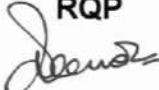


## CERTIFICATE

1. Certified that "The Provisions of the Mines Act, Rules and Regulations made there under observed in the Scheme of Mining including Progressive Mine Closure Plan and wherever specific permission is required, the lessee will approach the Director of Mines safety for their specific approval".
2. Certified that "The Provisions of Andhra Pradesh Minor Mineral Concession Rules 7 A, 1966 observed in the Scheme of Mining including Progressive Mine Closure Plan in respect Laterite over an extent of 16.390 Hectares (40.50 Acres) in the Diversion of Forest Land Falling in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Foulkspeta Range, Rampachodavaram Division, Andhra Pradesh State, held by **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, and wherever specific permissions are required the lessee will approach the concerned authorities for grant the permission".
3. Certified that "The information furnished in the Scheme of Mining including Progressive Mine Closure Plan is true and correct to the best of my knowledge".

Date :

Place : Hyderabad

RQP  
  
(V. T. CHANDER)  
(RQP / DMG / AP / 01 / 2022)



## INDEX

S.NO.	CONTENTS	PAGE NO'S
	INTRODUCTION	01
I	GENERAL	05
II	LOCATION AND ACCESSIBILITY	06
III	DETAILS OF APPROVED MINING PLAN / SCHEME OF MINING, IF ANY	10
	<b>PART – A</b>	
1.0	GENERAL DETAILS OF THE APPLIED AREA / MINING LEASE	11
2.0	GEOLOGY AND EXPLORATION	12
3.0	MINING	19
4.0	MINE DRAINAGE	23
5.0	STOCKING OF MINERAL REJECTS / SUB GRADE MATERIAL AND DISPOSAL OF WASTE	24
6.0	USE OF MINERAL AND MINERAL REJECT	24
7.0	PROCESSING OF ROM AND MINERAL REJECT	25
8.0	OTHERS	25





	<b>PART – B</b>	
1.0	ENVIRONMENT BASE LINE INFORMATION	27
2.0	ENVIRONMENTAL IMPACT ASSESSMENT	29
	<b>PART – C</b>	
	<b>PROGRESSIVE QUARRY CLOSURE PLAN</b>	
1.0	INTRODUCTION	31
2.0	PROGRESSIVE RECLAMATION PLAN	32
3.0	MINED OUT LAND	33
4.0	TOP SOIL MANAGEMENT	34
5.0	TAILING DAM MANAGEMENT	34
6.0	DISASTER MANAGEMENT AND RISK ASSESSMENT	34
7.0	CARE AND MAINTENANCE DURING TEMPORARY DISCONTINUANCE	35
8.0	FINANCIAL ASSURANCE	36
9.0	FINANCIAL ASSURANCE PROFORMA	37
10.0	CERTIFICATE	38
11.0	PLANS & SECTIONS	38





# LIST OF PLATES

PLATE	TITLE	SCALE
I	LOCATION CUM KEY PLAN	1 : 50,000
II	DGPS LEASE AREA SKETCH	1 : 4,000
III	SURFACE CUM GEOLOGICAL PLAN	1 : 2,000
IV	GEOLOGICAL CROSS SECTIONS	1 : 2,000
V	WORKING PLAN	1 : 2,000
VI	WORKING CROSS SECTION	1 : 2,000
VII	CONCEPTUAL PLAN	1 : 2,000
VIII	CONCEPTUAL CROSS SECTIONS	1 : 2,000
IX	RECLAMATION PLAN	1 : 2,000
X	ENVIRONMENT PLAN	1 : 5,000





### LIST OF ANNEXURES

I	Copy of Approved Mining Plan by the Joint Director of Mines & Geology, Hyderabad, vide Letter No. 5284 / MP-RJY / 2012 dated 12-03-2013
II	Copy of SEIAA, Order No. SEIAA / AP / E.G-70 / 2013 dated 02-05-2013
III	Copy of Consent Order for Establishment, Order No. 5876 / PCB / ZO-Vsp / Tech / 2013-184 dated 14-05-2013
IV	Copy of Grant Order vide G.O. Ms No. 67 Industries & Commerce (M.IV) Department dated 02-08-2013
V	Copy of Work Order by the Asst. Director of Mines & Geology, Rajahmundry, vide Proceedings No. 4883 / M / 2010 dated 26-10-2013
VI	Copy of Consent & Authorization Order, Consent Order No. 5876 / APPCB / ZO-VSP / KKD / CFO / W & A / 2017-1452 dated 16-02-2017
VII	Copy of approved Scheme of Mining by the Deputy Director of Mines & Geology, Kakinada, vide Letter No. 3498 / Laterite / 2022 dated 11-10-2022
VIII	Copy of Quarry Photographs
IX	Photographs of Boundary Pillars Erected
X	Copies of Chemical Analysis reports of GIS and Department of Mines & Geology Laboratories
XI	Copy of RQP Validity Certificate



**SCHEME OF MINING  
INCLUDING PROGRESSIVE MINE CLOSURE PLAN  
FOR  
LATERITE**

(Under Amended Rule 7 A (1) of APMMC Rules, 1966 &  
Rule 7 A (3) of APMMC, 1966)

**(OTHER THAN FULLY MECHANISED OPENCAST 'A' CATEGORY)**

**(FOR THE SCHEME PERIOD FROM 2023 – 24 TO 2027 – 28)**

Over an extent of 16.390 Hectares (40.50 Acres) in the Diversion of  
Forest Land Falling in Compartment No. 750 of Tadepalli Protected Forest,  
D. Velamalakota Beat, Foulkspeta Range, Rampachodavaram Division,  
Andhra Pradesh State



**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**

Registered with R. C. No. 1596 / 2010 C

President : A. Somireddy  
Tadapalli Village  
Maredumilli Mandal  
East Godavari District  
Andhra Pradesh State  
Mobile No. 94406 70917

By

**V.T. CHANDER**  
Consultant Geologist & RQP  
(RQP / DMG / AP / 01 / 2022)

**INTRODUCTION**

The Mining Plan in respect of Laterite pertaining to **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, over an extent of 16.39 Hectares (40.50 Acres) in Protected Forest in Sy. No's. 37 & 38 of Maddiveedu H/o Tadepalli Gram Panchayat Village, Maredumilli Mandal, East Godavari District, Andhra Pradesh State, was approved by the Joint Director of Mines & Geology, Hyderabad, vide Letter No. 5284 / MP-RJY / 2012 dated 12-03-2013 (Annexure – I).

The lessee society has obtained the Environment Clearance for a period of 10 years for a mining the Laterite mine for 0.526 MTPA vide Order No. SEIAA / AP / E.G-70 / 2013 dated 02-05-2013 (Annexure – II).

**APPROVED**

This Mining Plan is Approved subject to  
the conditions Stipulated indicated in  
the Mining Plan Approval Letter  
No. 3496 / Laterite / 2022 dt 28/10/2022

E. Nageshwar Reddy  
DISTRICT MINES & GEOLOGY OFFICER  
KAKINADA KAKINADA DISTRICT



Consent for Establishment (CFE) was received from Zonal Office of A.P. Pollution Control Board (APPCB), Visakhapatnam, for extracting the Laterite of 0.526 MTPA from over an extent of 16.39 Hectares (40.50 Acres) in Protected Forest in Sy. No's. 37 & 38 of Maddiveedu H/o Tadepalli Gram Panchayat Village, Maredumilli Mandal, East Godavari District, Andhra Pradesh State, vide Order No. 5876 / PCB / ZO-Vsp / Tech / 2013-184 dated 14-05-2013 (Annexure – III).

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, of East Godavari District, was granted mining lease for Laterite over an extent of 16.390 Hectares (40.50 Acres) in Un-Reserved Forest in Sy. No's. 37 & 38 of Maddiveedu Village H/o Tadepalli Grampanchayat, Maredumilli Mandal, East Godavari District in Agency area (Schedule area), Andhra Pradesh State for a period of 20 years vide G.O. Ms No. 67, Industries & Commerce (M.IV) Department dated 02-08-2013 (Annexure – IV).

The mining lease deed was executed on 23-10-2013 by the Asst. Director of Mines & Geology, Rajahmundry, vide Proceedings No. 4883 / M / 2010 dated 26-10-2013 for a period of (20) years from 26-10-2013 to 22-10-2033 (Annexure – V).

The 4 block periods for 20 years lease period is as follows :

S.No.	Plan Period of 5 Years	Remarks	Document	Remarks
1	2013 – 14 to 2017 – 18 (w.e.f. 26-10-2013)	1 <sup>st</sup> Five Year Block Period	Mining Plan	Lapsed
2	2018 – 19 to 2022 – 23	2 <sup>nd</sup> Five Year Block Period	First Scheme of Mining	Lapsed
3	2023 – 24 to 2027 – 28	3 <sup>rd</sup> Five Year Block Period	Second Scheme of Mining	
4	2028 – 29 to 2032 – 33 (upto 22-10-2033)	4 <sup>th</sup> Five Year Block Period	Third Scheme of Mining	

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, has not initiated any mining (or) associated activities pending Forest Clearance under Forest Conservation Act, 1980.

In 2014, the Forest Department has informed the Asst. Director of Mines & Geology, Rajahmundry that the lease area approved for mining through G.O.Ms.No. 67 of 2013, falls under Protected Forest & therefore requested the Asst. Director of Mines and Geology, Rajahmundry to cancel the mining lease.

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, have applied for lease as the area falls under Govt. Land. After confirming that the area is falling under the Protected Forest, the Society has applied for the lease under Forest Conservation Act for extraction of Laterite.



Revised Consent for Operation (CFO) was granted by the A.P. Pollution Control Board (APPCB) , Zonal Office, Visakhapatnam vide Consent Order No. 5876 / APPCB / ZO-VSP / KKD / CFO / W & A / 2017-1452 dated 16-02-2017 (Annexure – VI).

A committee was appointed by the Chief Commissioner of Land Administration & Special Chief Secretary, Govt. of Andhra Pradesh under the Joint Collector & Additional Magistrate, East Godavari District, Kakinada, Divisional Forest Officer, Kakinada, Asst. Director Survey and Land Records, Kakinada and Asst. Director of Mines & Geology, Rajamahendravaram as members to inspect and peruse all available records of Revenue Department and Forest Department to understand the status of the land in Sy. No. 37 and 38 of Maddiveedu village of Tadepalli Panchayath, Maredumilli Mandal of East Godavari District, vide CCLA & Spl. C.S.D : O. Lr. No. Assn.I (1) 556 / 2017 dated 22-08-2017.

The Joint Collector has submitted the report to the Chief Commissioner of Land Administration & Special Chief Secretary vide Ref. 64 / 49 / 2017 dated 12-11-2017 where in it was concluded that it is apparent that while both parties viz. revenue department and forest department have been unable to conclusively establish their ownership, the arguments propounded by the DFO regarding nature of biodiversity in said land is in juxtaposition with Hon'ble High Court and Supreme Court Judgements quoted inter alia, may tilt the conclusion in favour of conservationists & hence it is a forest area. (Annexure – VII)

As per the survey the mining lease area is over an extent of 16.782 Hectares (41.469 Acres). Further, after demarcating the safety zone from forest boundary the net quarry area is over an extent of 15.40 Hectares (38.05 Acres) + Quarry lease safety zone over an extent of 1.382 Hectares (3.414 Acres).

The Scheme of Mining for Laterite over an extent of 16.782 Hectares (as per DGPS sketch approved by the Asst. Director of Mines & Geology, Rajamahendravaram) in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division in favour of **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED, Rep. by President: Sri A. Somi Reddy** for the year ensuring balance period i.e., (2022-2023) was approved by the Deputy Director of Mines & Geology, Kakinada, vide Letter No. 3498 / Laterite / 2022 dated 11-10-2022 (Annexure – VIII).

As per the revised DGPS survey (**PLATE-II**), the Diversion of Forest Land for quarry lease for Laterite is falling in Compartment No. 750 of Tadepalli Protected Forest of D. Velamalakota Beat of Foulkspeta Range and Rampachodavaram Division over an extent of 16.39 Hectares. Further, after demarcating the safety zone from forest boundary the net quarry area is over an extent of 14.89 Hectares + Quarry lease safety zone over an extent of 1.44 Hectares. In addition to the above area, the road passing adjoining the lease area is also falling in the protected forest area admeasuring 0.06 Hectares. (Total = 16.390 Hectares)



As the 1<sup>st</sup> & 2<sup>nd</sup> Five Year Block Periods are lapsed, **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, of East Godavari District, approached **Sri V. T. CHANDER**, Consultant Geologist and RQP (RQP / DMG / AP / 01 / 2022) for preparation of Scheme of Mining in the above mentioned area.

The present scenario is the boundary co-ordinates are captured by deploying DGPS survey and the plans are prepared by the Forest Department. Accordingly this Scheme of Mining is prepared as per guidelines issued in Form – T in G.O.Ms. No. 56, Industries & Commerce (M-II) Department dated 30-04-2016 under Amended Rule Rule 7 A (1) of APMMC Rules, 1966 and Progressive Mine Closure Plan under Rule 7 A (3) of APMMC Rules, 1966 for the five years scheme period i.e. 2023-24 to 2027-28 and submitted to the Deputy Director of Mines & Geology, Kakinada, for scrutiny.

The Scheme of Mining is prepared with main emphasis as method of working an aim to ensure systematic development, conservation and safety of mining of Laterite mineral and protection of environment maintaining the safety zone along the inner boundary of the lease area.

The Society will obtain the HEMM permission from the Director General of Mines Safety and also the lessee will obtain required permissions from the Forest Department whenever it is needed.





**I GENERAL**

1.	<b>Name and Address of the lessee</b>	<b>M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED</b> Registered with R. C. No. 1596 / 2010 C, President : A. Somireddy, Tadapalli Village, Maredumilli Mandal, East Godavari District, Andhra Pradesh State. Mobile No. 94406 70917
2.	<b>Status of the lessee</b>	Society
3.	<b>Mineral (s) which are included in the Letter of Intent</b>	Laterite
4.	<b>Name and Details of person employed for preparing Scheme of Mining</b>	<b>V.T. CHANDER</b> H.No.10-1, Flat No. 202, Mahalakshmi Ganapathi Complex, Sai Baba Temple Lane, Opp. Bangalore Iyengar Bakery, P & T Colony, Dilsukhnagar, Hyderabad - 500 060. ☎ : 040 - 40138229, 📠 : 93933 83357
	<b>E-Mail</b>	ccgeoengg@gmail.com ccgeoengg@yahoo.com
	<b>Web Site</b>	www.ccgeotechnicals.com
	<b>RQP Registration No. &amp; Validity</b>	RQP / DMG / AP / 01 / 2022 (valid Upto 30 <sup>th</sup> April '2032)



## II. LOCATION AND ACCESSIBILITY

### 1) Lease Details

Forest Compartment No.	750 of Tadepalli Protected Forest
Beat	D. Velamalakota
Range	Foulkspeta
Division	Rampachodavaram
State	Andhra Pradesh
Extent	16.390 Hectares (40.50 Acres)
Ownership of Occupancy	Protected Forest
Geo Co-ordinates	<p>The mining lease area falls in the Survey of India, Toposheet No. 65 G 114 (Scale 1 : 50,000) and is bounded</p> <p>The DGPS Survey for the area is taken up by synchronising nearest Survey of India Ground Control Point at near M.P.D.O. Office, Korupanda (N), East Godavari (District) School, Mareduvilli, East Godavari District, whose co-ordinates are SOI UTM Co-Ordinates E-587606.190 (Easting), N-1897727.982 (Northing), Height: 31.617 (44Q).</p>

DGPS CO-ORDINATES FOR SURVEYED POINT FOR MINING LEASE (WGS 84 DATUM, UTM ZONE 44 Q)					
Point ID	Easting	Northing	Elevation	N°LATITUDE	E°LONGITUDE
M1	583108.126	1943902.845	571.905	N 17° 34' 48.38724"	E 81° 46' 59.53286"
M2	583113.547	1943982.365	554.904	N 17° 34' 50.97389"	E 81° 46' 59.72790"
M3	583117.832	1944098.981	545.316	N 17° 34' 54.76770"	E 81° 46' 59.88960"
M4	583118.292	1944217.685	566.681	N 17° 34' 58.62996"	E 81° 46' 59.92184"
M5	583117.308	1944287.497	572.719	N 17° 35' 00.90159"	E 81° 46' 59.89824"
M6	583155.044	1944374.085	565.585	N 17° 35' 03.71387"	E 81° 47' 01.19055"
M7	583239.203	1944371.686	587.059	N 17° 35' 03.62449"	E 81° 47' 04.04527"
M8	583348.988	1944368.732	611.176	N 17° 35' 03.51399"	E 81° 47' 07.66748"
M9	583456.982	1944366.109	627.714	N 17° 35' 03.41368"	E 81° 47' 11.43253"
M10	583571.486	1944363.042	630.944	N 17° 35' 03.29843"	E 81° 47' 15.31659"
M11	583653.053	1944334.600	654.120	N 17° 35' 02.36197"	E 81° 47' 18.07970"



M12	583654.443	1944325.695	658.660	N 17° 35' 02.07204"	E 81° 47' 18.12560"
M13	583567.618	1944294.905	667.403	N 17° 35' 01.08195"	E 81° 47' 15.17577"
M14	583468.398	1944255.852	683.937	N 17° 34' 59.82467"	E 81° 47' 11.80430"
M15	583449.210	1944227.080	696.809	N 17° 34' 58.89109"	E 81° 47' 11.14931"
M16	583441.420	1944151.337	724.873	N 17° 34' 56.42766"	E 81° 47' 10.87439"
M17	583436.952	1944075.583	732.173	N 17° 34' 53.96342"	E 81° 47' 10.71216"
M18	583430.593	1944005.808	732.142	N 17° 34' 51.69398"	E 81° 47' 10.48663"
M19	583284.033	1943956.096	629.142	N 17° 34' 50.09623"	E 81° 47' 05.50776"
M20	583200.305	1943927.662	590.661	N 17° 34' 49.18233"	E 81° 47' 02.66340"
S1	583099.562	1943892.264	571.093	N 17° 34' 48.04411"	E 81° 46' 59.24085"
S2	583105.537	1943982.911	552.249	N 17° 34' 50.99273"	E 81° 46' 59.45625"
S3	583110.133	1944099.487	543.203	N 17° 34' 54.78520"	E 81° 46' 59.68249"
S4	583110.284	1944217.687	564.298	N 17° 34' 58.63110"	E 81° 46' 59.65017"
S5	583109.317	1944289.224	572.620	N 17° 35' 00.95886"	E 81° 46' 59.62739"
S6	583149.957	1944382.319	558.050	N 17° 35' 03.98247"	E 81° 47' 01.01913"
S7	583239.433	1944379.653	584.147	N 17° 35' 03.88369"	E 81° 47' 04.05419"
S8	583346.235	1944376.763	607.294	N 17° 35' 03.77527"	E 81° 47' 07.67699"
S9	583457.149	1944374.053	623.372	N 17° 35' 03.67314"	E 81° 47' 11.43932"
S10	583572.874	1944370.639	632.183	N 17° 35' 03.56543"	E 81° 47' 15.36475"
S11	583660.189	1944340.618	651.089	N 17° 35' 02.55682"	E 81° 47' 18.32263"
S12	583663.398	1944320.475	660.763	N 17° 35' 01.90098"	E 81° 47' 18.42866"
S13	583570.271	1944287.323	674.460	N 17° 35' 00.83489"	E 81° 47' 15.26471"
S14	583473.654	1944249.763	688.527	N 17° 34' 59.62584"	E 81° 47' 11.98175"
S15	583456.500	1944224.530	698.686	N 17° 34' 58.80713"	E 81° 47' 11.39626"
S16	583449.398	1944150.799	726.316	N 17° 34' 56.40908"	E 81° 47' 11.14496"
S17	583444.942	1944075.014	737.594	N 17° 34' 53.94383"	E 81° 47' 10.98314"
S18	583438.048	1943999.923	736.931	N 17° 34' 51.50149"	E 81° 47' 10.73870"
S19	583287.598	1943948.926	632.517	N 17° 34' 49.86246"	E 81° 47' 05.62769"
S20	583202.717	1943920.014	594.011	N 17° 34' 48.93316"	E 81° 47' 02.74415"
R1	583028.510	1943839.300	547.183	N 17° 34' 46.33034"	E 81° 46' 56.82309"
R2	583023.490	1943845.855	546.772	N 17° 34' 46.54429"	E 81° 46' 56.65371"
R3	583035.614	1943869.614	550.582	N 17° 34' 47.31572"	E 81° 46' 57.06833"
R4	583029.350	1943873.228	549.222	N 17° 34' 47.43416"	E 81° 46' 56.85634"
R5	583099.868	1943899.522	569.879	N 17° 34' 48.28023"	E 81° 46' 59.25225"



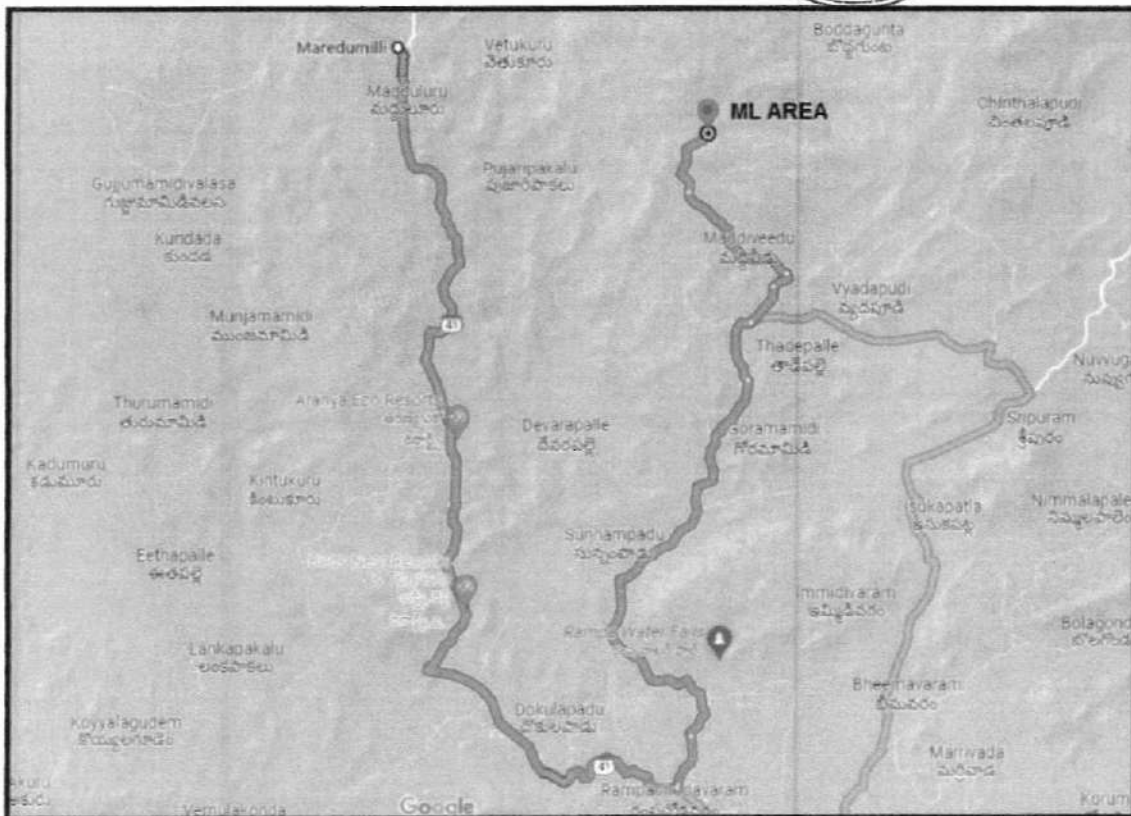
<p><b>Total Extent Accessibility</b></p>	<p>The mining lease area 14.89 Hectares + 1.44 Hectares for safety barrier zone + 0.06 Hectares for Road area is located at a distance of 1.75 Km due East of Maddiveedu Village and 1.50 Km due NE of Thadepalli Village. The Mandal Head Quarters Maredumilli is located at the distance of 48 Km (via. Rajahmundry – Bhadrachalam Highway) and 80 Km from Rajahmundry Town. The mining lease area can be approached from Rajahmundry. The location of the area is indicated in Key - Cum - Location Map (Plate - I).</p>
--	---

The DGPS Map certified by the Forest Department and Asst. Director of Mines & Geology, Rajamahendravaram, in favour of **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, is given as Plate No - II.

- 2) **Attach a general location map showing area and access routes**

The location of the area is indicated in Key - Cum - Location Map (Plate - I).

PHOTOGRAPH SHOWING VIEW OF LOCATION (ROUTE MAP) FROM MAREDUMILLI MANDAL HEAD QUARTERS TO MINING LEASE AREA



- 3) **Period of mining lease granted = 20 years (w.e.f. 26-10-2013 to 22-10-2033)**



#### 4) Infrastructure & Communications

<b>Availability of Water</b>	The ground water is not available as the area and the area is situated on top of the hill. The agricultural fields around the mining lease area are irrigated by rain water.
<b>Availability of Electricity</b>	Electricity is available in the villages and meant for domestic purpose.
<b>Communication Network</b>	Tele Communications are available at the Maredumilli.
<b>Road Network</b>	State Transport Bus Services ply from Rampa Chodavaram – Rajahmundry frequently, Private Transport is also available on this road network.
<b>Nearest Rail Head</b>	Rajahmundry Railway Station is 81 Km (via. Rajahmundry – Bhadrachalam Highway) from the Site.
<b>Port Facility</b>	Kakinada Port is about 110 Km (via. Samarlakota – Gokavaram road) from the Site.
<b>School</b>	<p>Govt Primary School is available in this Maredumilli village.</p> <p>Nearest Govt Pre Primary School is in Tadepalle.</p> <p>Nearest Govt Medical College is in Kakinada.</p> <p>Nearest Private Pre Primary School, Govt Secondary School, Govt Senior Secondary School, Govt Arts and Science Degree College, Govt Engineering College, Private Polytechnic College and Private ITA College are in Rampachodavaram.</p> <p>Nearest Govt Disabled School and Private MBA college are in Rajahmundry</p>
<b>Medical Facility</b>	Registered Medical Practitioner is available at Maredumilli Village. Rampa Chodavaram & Rajahmundry Towns are well placed for Doctors, Nursing Homes & Hospitals.

#### BOUNDARIES

<b>North</b>	Kota Reserve Forest
<b>South</b>	Mallavaram & Tadepalli Villages
<b>East</b>	Tadepalli Village & Kota RF
<b>West</b>	Mallavaram & Maredumilli RF



### III. Details of Approved Mining Plan / Scheme of Mining, if any

The Mining Plan in respect of Laterite pertaining to **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**, over an extent of 16.39 Hectares (40.50 Acres) in Protected Forest in Sy. No's. 37 & 38 of Maddiveedu H/o Tadepalli Gram Panchayat Village, Maredumilli Mandal, East Godavari District, Andhra Pradesh State, was approved by the Joint Director of Mines & Geology, Hyderabad, vide Letter No. 5284 / MP-RJY / 2012 dated 12-03-2013 (Annexure – I).

The Scheme of Mining for Laterite over an extent of 16.782 Hectares (as per DGPS sketch approved by the Asst. Director of Mines & Geology, Rajamahendravaram) in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division in favour of **M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED, Rep. by President: Sri A. Somi Reddy** for the year ensuring balance period, i.e., (2022-2023) was approved by the Deputy Director of Mines & Geology, Kakinada, vide Letter No. 3498 / Laterite / 2022 dated 11-10-2022 (Annexure – II).





## PART – A

### 1.0 GENERAL DETAILS OF THE MINING LEASE AREA

1.	Topography	The subject area forms the part of 'Eastern Ghat' hill ranges raising to height of more than 900 m above mean sea level. Within the Eastern Ghats the subject area (retained area) has formed as small mound like dome shape and it is rising to a height of 170 M (from 560 M RL to 730 M) in the center and slop on all four sides. There are two seasonal nalas are flowing adjacent to the retained on northern and southern sides. The surface rainwater flows through the slopes of the area and joins to these seasonal nalas during rainy seasons. The forest area is surrounding on three side within one kilometer distance from the subject area.
2.	Drainage	Sub-Dendritic Pattern in N – S direction
3.	Vegetation	Sparse with thorny bushes in the mining leased area, areas around the mining leased area are cultivation lands
4.	Climate	The area experiences semi arid climatic condition. The area experience 1,000 mm average annual rainfall during August - November months. The day temperature varies 28°C in winter and about 50°C in summer season. The general wind direction is SW to NE & SE- NW.
5.	Rainfall	The average annual rainfall of the area is 1,000 mm
6.	Soil Type	Red lateritic soils
7.	Land Use Pattern	The mining lease area is part of undulating terrain area with moderate to steeply sloping. The land is barren with boulders and rocky exposures and not fit for cultivation



## 2.0 GEOLOGY AND EXPLORATION

### a) Brief description of Regional Geology with reference to location of lease area

The region of the subject area belongs to Archean group. During the Late Archean, along the eastern margin of the Dharwar Craton, intense deformation and high grade granulites facies metamorphism of a pile of volcano – sedimentary rocks and sub volcanic intrusive formed in long, linear, rift-relatyed basin resulted in the development of a typical suite of rocks comprising Khondalite, Calc-granulites and laterite represented by Eastern Ghats.

### b) Detailed description of geology of lease area

#### Local Geology

The rock types exposed in the subject area are : (As observed from the section of excavated mass for developing the road).

		Thickness (m)
Ferruginous Soil	: Recent	0.05 –1.00 m
Laterite	: Tertiary (?) period	6 - 25 mts (6 m depth in the elevated areas and up to 25 m in the lower elevations)
Ferruginous, Kaolinised, Khondalite (FKK)	: Archaean (Base Not Exposed)	+5 m

#### (i) Ferruginous Kaolinised Khondalite (FKK)

This lithounit is the weathered and altered form of the Khondalite (Kh), which is the parent rock for the overlying laterite. The 'Kh' is a Garnet – Sillimanite – Gneiss / Schist. On alteration during lateritisation it gave rise to the Ferruginous Kaolinised Rock, which is a weathered mass with preponderant clay and iron oxides, hence called Ferruginous Kaolinised Khondalite. The alteration and weathering totally obliterated the gneissic fabric and thus attitudes of the foliation could not be measured.

#### (ii) Laterite

Laterite is derived by the situ chemical weathering of the parent rock, viz., Khondalite and is thus secondary. It is cavernous / vesicular and hard in nature; it is rose red, brick red or yellow in colour and is spotty (due to weathered pin-heads of original garnets) or patchy with blotches of limonite / clay.

Laterite exhibits a typical physical appearance as skeletal and porous and its varying colour and chemical composition. It occurs as a flat or gently sloping crust or blanket, capping the Khondalite and maintaining near parallelism with the present day topography but petering out in thickness at the two ends.

The occurrence of Laterite is mostly as capping over the Khondalite rock, whereas along the break of slopes, the Laterite is to a thickness of 18.25 m (foot hills).



(iii) **Soil**

Ferruginous Soils occurs as a mantle of 80 to 100 Cms thickness over a major part of the FKK and of 50 to 150 Cms over the laterite sub crops. The general thickness is taken as 1 M respectively for purposes of calculations. However, it is about a metre thick in the entire area, where there is a thick growth of thorny thickets.

c) **Details of Mine Lease holder**

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**

Registered with R. C. No. 1596 / 2010 C,

President : A. Somireddy,

Tadapalli Village,

Maredumilli Mandal,

East Godavari District,

Andhra Pradesh State.

Mobile No. 94406 70917.

d) **Details of Prospecting / Mining Carried Out**

**REVIEW OF SCHEME OF MINING**

**Status of Mine Working in respect of Scheme of Mining (Review)**

- Owing to the dispute over the ownership of the land the mining activities were stopped (i.e. dispute of land between forest and revenue departments).

(i) **Mining Carried Out**

No mining operations were carried out.

(ii) **Year wise Production & Dispatches of Laterite achieved during the plan period**

No production and dispatches were made by the lessee during the last 10 years.





(iii) **Year Wise Development Plan as per the Approved Scheme of Mining '2022**

	<b>Proposals as per Approved Scheme of Mining 2022</b>	<b>Target Achieved</b>
<b>Production</b>	The annual production for Laterite was planned at 4,88,974.50 Tons.	No mining operations were carried out.
<b>Exploitation</b>	<p>The mining was proposed by other than fully mechanized open cast methods. It was proposed by developing two benches of 4.5 M.</p> <p>The mining was proposed from Southern end of the deposit taking advantage of the scarp face and the other surface exposures of laterite and extended towards Northwards.</p>	No mining operations were carried out
<b>Afforestation</b>	Afforestation was proposed along SW side of the quarry lease area in the 7.5 m buffer zone over an extent of 100 MC in a phased manner with Neem / Mango plants.	No mining operations were carried out
<b>Reclamation &amp; Rehabilitation</b>	After completion of leased period the hill remains except the reduction of elevation and slopes by the pits that will be formed.	No mining operations were carried out
<b>Control of Dust, Noise &amp; Ground Vibrations</b>	No proposals were made as the mining proposed is small quantity (mostly manual mining very little movement of vehicles about 2 trips by a truck in a day) and no impact of noise and vibrations.	No action was initiated.



**e) Surface Plan area on 1 : 2,000 Scale**

**Topographical Survey**

The baseline is considered from the DGPS survey in co-relation with Toposheet contours, the levels were taken using total station of LEICA with 5 Cm accuracy covering the total area.

The BM is taken on Boundary Pillar – M1 in the SW of the mining lease area with its value of 575 M (Plate – III).

The lessee will erect a permanent bench mark with concrete structure (it will not be disturbed by any quarry operations) (Plate – III).

The co-ordinates were fixed using the Differential Global Positioning System (DGPS).

**MAP DATUM : WGS – 84**

<b>Position Format</b>	hddd – mm – ss.sssss
<b>Map Datum</b>	WGS – 84
<b>Units</b>	Metric

The features captured are drafted to prepare the Surface Plan on 1 : 2,000 Scale.

**f) Geological Plan prepared on a Scale 1 : 2,000 Scale**

The geological features captured are drafted to prepare the Geological Plan on 1 : 2,000 Scale (Plate – III)

**g) Geological Sections on natural scale at suitable interval across the lease area**

Geological traverses in and around the mining lease area facilitated to access the shape and size of the deposit in the area. It is a part of hill deposit rising 170 M above ground level within the mining leased area (The lowest contour is 560 M and highest contour is 730 M).

**Method of Estimation of Reserves**

The deposit is found to be irregular in shape. Hence cross sectional method adopted for Estimation of Geological Reserves. 5 Sections A-A1 to E-E1 were drawn at equal distance perpendicular to the strike direction of the formation to estimate the reserves (Plate – III).

The cross sections were drawn perpendicular to the strike direction, the cross sectional area of the individual sections are calculated to arrive at sectional area, the area thus arrived is multiplied by the sectional influence of 55 - 100 M to arrive the volume of laterite.

The Tonnage Factor of the Laterite loaded in the truck (known Volume) weighing 2 Tons / Cubic Meter. The Tonnage Factor of 2.00 Tons / M<sup>3</sup> from the existing quarries in the district is also considered.



- h) Broadly indicate the future program of exploration with due justification taking into consideration the future tentative excavation programme planned in five years

Year	No. of Boreholes (Core / RC / DTH)	Grid Interval	Total meterage	No. of Pits, Dimensions and Volume	No. of Trenches, Dimensions and Volume
1 <sup>st</sup> (2023 – 24)	N.A	-	-	N.A	N.A
2 <sup>nd</sup> t (2024 – 25)	N.A	-	-	N.A	N.A
3 <sup>rd</sup> (2025 – 26)	N.A	-	-	N.A	N.A
4 <sup>th</sup> (2026 – 27)	N.A	-	-	N.A	N.A
5 <sup>th</sup> (2027 – 28)	N.A	-	-	N.A	N.A

- i) Reserves and Resources as per UNFC. Detailed calculation of reserves shall be stated

**Reserves (As per the Approved Scheme of Mining '2022)**

Proved Laterite = 53,44,960.00 Tons

Reserves Blocked under Safety Slopes & Buffer Zone = Nil

Total Mineable Reserves = 53,44,960.00 Tons

**Life of the Mine**

(Total Reserves / Annual Production) = 53,44,960.00 / 4,88,974.50 Tons

= 10.93 OR SAY 11 YEARS



**Additional Reserves established category wise (with basis & parameters considered)**

The Laterite deposit in the mine lease area is blanket type with varied thickness from elevated region to slopes underlain by the Khondalite rock, the entire thickness is considered as Proved deposit as per UNFC.

The reserves are estimated by multiplying the cross sectional area with the influence distance of section, tonnage factor (T.F) and recovery factor (R.F). The tonnage factor of Laterite is considered as 2.00 and recovery factor saleable ore is taken as 95%.

**a) Total Geological Reserves**

Sections	Category & UNFC Code	Sectional Area	Sectional Influence	Volume	TF	Reserves	Recovery @ 95%
		(M <sup>2</sup> )	(M)	(M <sup>3</sup> )		(MT)	(MT)
A - A1	Proved (111)	6,389.00	55.00	3,51,395.00	2.00	7,02,790.00	6,67,650.50
B - B1	Proved (111)	6,532.00	95.00	6,20,540.00	2.00	12,41,080.00	11,79,026.00
C - C1	Proved (111)	3,556.00	100.00	3,55,600.00	2.00	7,11,200.00	6,75,640.00
D - D1	Proved (111)	4,520.00	100.00	4,52,000.00	2.00	9,04,000.00	8,58,800.00
E - E1	Proved (111)	4,118.00	86.00	3,54,148.00	2.00	7,08,296.00	6,72,881.20
		<b>TOTAL</b>		<b>21,33,683.00</b>		<b>42,67,366.00</b>	<b>40,53,997.70</b>

**RESERVES IN UNFC CODE**

S. No.	Category of Reserves	UNFC Code	Laterite Reserves in MT	Laterite Reserves in Million Tons
1	Proved	111	42,67,366.00	4.26
2	Probable	122	Nil	Nil
3	Possible	333	Nil	Nil



i) RESERVES BLOCKED UNDER 7.5 M BUFFER ZONE

Sections	Category & UNFC Code	Sectional Area	Sectional Influence	Volume	TF	Reserves
		(M <sup>2</sup> )	(M)	(M <sup>3</sup> )		(MT)
A - A1	Proved (221)	316.00	55.00	17,380.00	2.00	34,760.00
B - B1	Proved (221)	206.00	95.00	19,570.00	2.00	39,140.00
C - C1	Proved (221)	213.00	100.00	21,300.00	2.00	42,600.00
D - D1	Proved (221)	222.00	100.00	22,200.00	2.00	44,400.00
E - E1	Proved (221)	251.00	86.00	21,586.00	2.00	43,172.00
		<b>TOTAL</b>		<b>1,02,036.00</b>		<b>2,04,072.00</b>

ii) RESERVES BLOCKED UNDER SAFETY SLOPES

Sections	Category & UNFC Code	Sectional Area	Sectional Influence	Volume	TF	Reserves
		(M <sup>2</sup> )	(M)	(M <sup>3</sup> )		(MT)
A - A1	Proved (221)	180.00	55.00	9,900.00	2.00	19,800.00
B - B1	Proved (221)	191.00	95.00	18,145.00	2.00	36,290.00
C - C1	Proved (221)	202.00	100.00	20,200.00	2.00	40,400.00
D - D1	Proved (221)	540.00	100.00	54,000.00	2.00	1,08,000.00
E - E1	Proved (221)	183.00	86.00	15,738.00	2.00	31,476.00
		<b>TOTAL</b>		<b>1,17,983.00</b>		<b>2,35,966.00</b>



## RESERVES AVAILABLE FOR QUARRYING

A	Total Geological Reserves	42,67,366.00 MT
B	Reserves Blocked under 7.5 M Buffer Zone	2,04,072.00 MT
C	Reserves Blocked under Safety Slopes	2,35,966.00 MT
D	Total Reserves Blocked (B + C)	4,40,038.00 MT
E	Reserves available for Quarrying (A – (B + C))	<b>38,27,328.00 MT</b>

### Recovery (Proved)

$$\begin{aligned}\text{@ 95\% Recovery} &= 36,35,961.60 \text{ MT} \\ \text{Life of the Quarry} &= 36,35,961.60 \text{ MT} / 5,25,996.00 \text{ MT} \\ &= 6.91 \text{ or Say 7 YEARS}\end{aligned}$$

### 3.0 MINING

#### a) Open Cast Mining

#### i) Description of existing / proposed method for excavation with all design parameters indicating on plans / sections.



The Laterite in the mining leased area is exposed on the surface. Hence, it is proposed to mine the overburden by open cast, semi-mechanized methods, by developing the benches of 4.50 M height and 6 M width.



- ii) Indicate year wise tentative excavation in cubic meters indicating development, ROM, pit wise as in table

Year	Pit No	Total Tentative Excavation	Top Soil	OB / SB / IB	ROM from Mineralised Zone			Waste @ 5%	ROM / Waste Ratio
					Laterite @ 95%	Sub - Grade Ore	Mineral Rejects		
		(M <sup>3</sup> )	(M <sup>3</sup> )	(M <sup>3</sup> )	(M <sup>3</sup> )	(M <sup>3</sup> )	(M <sup>3</sup> )	(M <sup>3</sup> )	
1	2	3	4	5	6	7	8	9	10
1 <sup>st</sup> (2023 – 24)	1	2,75,400.00	Nil	18,400.00	2,61,630.00	Nil	Nil	13,770.00	1 : 0.05
2 <sup>nd</sup> (2024 – 25)		2,70,450.00	Nil	23,340.00	2,56,927.50	Nil	Nil	13,522.50	1 : 0.05
3 <sup>rd</sup> (2025 – 26)		2,52,000.00	Nil	Nil	2,39,400.00	Nil	Nil	12,600.00	1 : 0.05
4 <sup>th</sup> (2026 – 27)		2,50,200.00	Nil	Nil	2,37,690.00	Nil	Nil	12,510.00	1 : 0.05
5 <sup>th</sup> (2027 – 28)		3,36,150.00	Nil	Nil	3,19,342.50	Nil	Nil	16,807.50	1 : 0.05
TOTAL		13,84,200.00		41,740.00	13,14,990.00			69,210.00	
AVERAGE		2,76,840.00			2,62,998.00			13,842.00	

iii) **Dump Management**

The waste generated will be dumped temporarily in the NW of the quarry lease area between the grids N 300 – 500 & E 00 – 300 covering an area of 13,650 M<sup>2</sup> (within the quarry lease area) with an average height of 6 M (Plate – V).

The waste generated will be dumped with layered formations of 3 m each with terracing.

**Under Ground Mining**

Not applicable

a) **Production Programme for five years (2023 – 24 to 2027-28)**

The lessee intends to extract the laterite production to the tune of 5,25,996.00 MT per annum during the five years of the scheme period covering under Cross Sections A-A1 to E-E1 with a bench of 4.50 m height between the grids N 00 – 500 & W 50 – E 700. The workings advance Northwards (Plate – V).

5% waste is anticipated which will also be marketed on demand.

Other than fully mechanized open cast 'A' category method operations will be carried out by deploying heavy machinery.



**b) Mining Programme for five years (2023 – 24 to 2027-28)**

It is proposed to produce the Laterite from South of the mining lease area during the next five years.

The waste generated will be dumped temporarily in the NNW of the quarry lease area between the grids N 300 – 500 & E 00 – 300 covering an area of 13,650 M<sup>2</sup> (within the quarry lease area) with an average height of 6 M (Plate – V).

**Stock Yard**

The mineral generated will be stocked temporarily in the NNW of the quarry lease area over an area of 1,950 M<sup>2</sup> between the grids N 300 – 400 & E 00 – 100 (Plate – V).

YEAR	LATERITE
<b>1<sup>st</sup> (2023 – 24)</b>	<p>The mining will be initiated from South of the mining lease area between the grids N 00 – 300 &amp; W 50 – E 500 and between the Contour 730 – 570 M to RL 725.50 – 565.50 M.</p> <p>5,50,800.00 MT of ROM and will be obtained by excavating an area of 61,200.00 M<sup>2</sup> with a bench of 4.50 M height, producing 5,23,260.00 MT of Laterite (95% recovery) and 13,770.00 M<sup>3</sup> (5% Waste) will be generated. The mining advances Northwards (Plate – V).</p> <p><b>Development</b></p> <p>The development will be taken up for the Hard Mass (Ferruginous Kaolinised Khondalite) occurrence in the mining lease area. A volume of 18,400.00 M<sup>3</sup> of Hard Mass will be excavated.</p>
<b>2<sup>nd</sup> (2024 – 25)</b>	<p>The mining will continue due North of previous year workings between the grids N 300 – 500 &amp; W 50 – E 700 and between the Contour 700 – 570 M to RL 695.50 – 565.50 M.</p> <p>5,40,900.00 MT of ROM and will be obtained by excavating an area of 60,100.00 M<sup>2</sup> with a bench of 4.50 M height, producing 5,13,855.00 MT of Laterite (95% recovery) and 13,522.50 M<sup>3</sup> (5% Waste) will be generated. The mining advances Northwards (Plate – V).</p> <p><b>Development</b></p> <p>The development will be taken up for the Hard Mass (Ferruginous Kaolinised Khondalite) occurrence in the mining lease area. A volume of 23,340.00 M<sup>3</sup> of Hard Mass will be excavated.</p>



<p><b>3<sup>rd</sup></b> <b>(2025 – 26)</b></p>	<p>The mining will continue below previous year workings between the grids N 00 – 300 &amp; W 50 – E 500 and between the RL 725.50 – 565.50 M to RL 721.00 – 561.00 M.</p> <p>5,04,000.00 MT of ROM and will be obtained by excavating an area of 56,000.00 M<sup>2</sup> with a bench of 4.50 M height, producing 4,78,800.00 MT of Laterite (95% recovery) and 12,600.00 M<sup>3</sup> (5% Waste) will be generated. The mining advances Northwards (Plate – V).</p>
<p><b>4<sup>th</sup></b> <b>(2026 – 27)</b></p>	<p>The mining will continue below 1<sup>st</sup> year workings between the grids N 300 – 500 &amp; W 50 – E 700 and between the RL 695.50 – 565.50 M to RL 691.00 – 561.00 M.</p> <p>5,00,400.00 MT of ROM and will be obtained by excavating an area of 55,600.00 M<sup>2</sup> with a bench of 4.50 M height, producing 4,75,380.00 MT of Laterite (95% recovery) and 12,510.00 M<sup>3</sup> (5% Waste) will be generated. The mining advances Northwards (Plate – V).</p>
<p><b>5<sup>th</sup></b> <b>(2027 – 28)</b></p>	<p>The mining will continue below 3<sup>rd</sup> &amp; 4<sup>th</sup> year workings between the grids N 00 – 300 &amp; W 50 – E 500 and between the RL 721.00 – 561.00 M to RL 716.50 – 556.50 M.</p> <p>6,72,300.00 MT of ROM and will be obtained by excavating an area of 74,700.00 M<sup>2</sup> with a bench of 4.50 M height, producing 6,38,685.00 MT of Laterite (95% recovery) and 16,807.50 M<sup>3</sup> (5% Waste) will be generated. The mining advances Northwards (Plate – V).</p>

**YEAR WISE PRODUCTION FOR LATERITE FOR 5 YEARS (2023 – 24 TO 2027 – 28)**

Year	Area	Bench Height	Volume	TF	ROM	Recovery @ 95%	Waste @ 5%
	(M <sup>2</sup> )	(M)	(M <sup>3</sup> )		(MT)	(MT)	(M <sup>3</sup> )
1 <sup>st</sup> (2023 – 24)	61,200.00	4.50	2,75,400.00	2.00	5,50,800.00	5,23,260.00	13,770.00
2 <sup>nd</sup> (2024 – 25)	60,100.00	4.50	2,70,450.00	2.00	5,40,900.00	5,13,855.00	13,522.50
3 <sup>rd</sup> (2025 – 26)	56,000.00	4.50	2,52,000.00	2.00	5,04,000.00	4,78,800.00	12,600.00
4 <sup>th</sup> (2026 – 27)	55,600.00	4.50	2,50,200.00	2.00	5,00,400.00	4,75,380.00	12,510.00
5 <sup>th</sup> (2027 – 28)	74,700.00	4.50	3,36,150.00	2.00	6,72,300.00	6,38,685.00	16,807.50
<b>TOTAL</b>			<b>13,84,200.00</b>		<b>27,68,400.00</b>	<b>26,29,980.00</b>	<b>69,210.00</b>
<b>AVERAGE</b>			<b>2,76,840.00</b>		<b>5,53,680.00</b>	<b>5,25,996.00</b>	<b>13,842.00</b>



DEVELOPMENT FOR TWO YEARS (2023 – 24 & 2024-25)	
Year	Volume
	(M <sup>3</sup> )
1 <sup>st</sup> (2023 – 24)	18,400.00
2 <sup>nd</sup> (2024 – 25)	23,340.00
<b>TOTAL</b>	<b>41,740.00</b>

**Quantum of Excavation :** A total of 14,25,940.00 M<sup>3</sup> (Development excavation of 41,740.00 M<sup>3</sup> + ROM excavation of 13,84,200.00 M<sup>3</sup>) will be excavated.

**c) Production Schedule**

The production of Laterite continuous throughout year except during monsoon that is 10 working months, 25 working days per month are considered. The average production of 5,25,996.00 MT per year (250 days @ 2103.984 MT per day) can be easily achieved in a single shift with sufficient men and machinery.

**d) Magazine Type and Capacity**

No blasting is required.



**4.0 MINE DRAINAGE**

A	Minimum and Maximum depth of water table	Shallow aquifers during monsoon period and canal flows. Depletion of water occurs during summer Water table depth ranges from 10 – 35 m
B	Indicate Maximum and minimum depth of workings	Contour 730 to RL 556.50 M
C	Quantity and Quality of water	Potable
D	Regional Drainage Pattern	Parallel



## 5.0 STOCKING OF MINERAL REJECT / SUB GRADE MATERIAL AND DISPOSAL OF WASTE

During quarrying operations in next five years, a total of 69,210.00 M<sup>3</sup> of mineral waste and 41,740.00 M<sup>3</sup> of development waste will be generated.

Year	Waste @ 5% (M <sup>3</sup> )	Development (M <sup>3</sup> )
1 <sup>st</sup> (2023 – 24)	13,770.00	18,400.00
2 <sup>nd</sup> t (2024 – 25)	13,522.50	23,340.00
3 <sup>rd</sup> (2025 – 26)	12,600.00	-
4 <sup>th</sup> (2026 – 27)	12,510.00	-
5 <sup>th</sup> (2027 – 28)	16,807.50	-
<b>TOTAL</b>	<b>69,210.00</b>	<b>41,740.00</b>

### Estimated Waste Quantity that will be generated in the Entire life of the mining period

At the rate of 13,842.00 M<sup>3</sup> of waste per year the volume of waste generated in entire life of the mining lease period i.e. 7 years is estimated to be 96,894.00 M<sup>3</sup>.



## 6.0 USE OF MINERAL AND MINERAL REJECT

As per the Average Chemical Analysis reports of GIS and Mines & Geology Department Laboratories.

### Geological Survey of India (GIS)

S.No.	Sample	Average (%)
1	Silica as SiO <sub>2</sub>	37.80
2	Iron as Fe <sub>2</sub> O <sub>3</sub>	19.73
3	Aluminum as Al <sub>2</sub> O <sub>3</sub>	26.94



## Department of Mines & Geology (DMG)

S.No.	Sample	Average (%)
1	Silica as $\text{SiO}_2$	38.82
2	Iron as $\text{Fe}_2\text{O}_3$	17.82
3	Aluminum as $\text{Al}_2\text{O}_3$	28.36

This material is readily accepted by the cement industries for use as an additive to produce clinker for cement manufactured.

### 7.0 PROCESSING OF ROM AND MINERAL REJECT

No processing is required for Laterite.

### 8.0 OTHERS

#### a) SITE SERVICES

Temporary Office, Rest Shelter, Drinking Water Facilities, Public Utilities, First Aid will be provided in the West of the quarry lease area (within 7.5 M buffer zone) covering an area of 300 M<sup>2</sup> between the grids N 200 – 400 & E 00 – 100 (Plate – V).



#### b) Extent of Mechanisation

The following machinery is deployed by the company

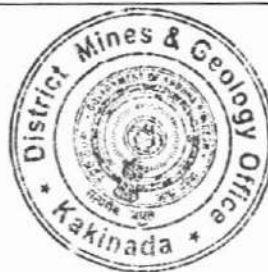
S.NO.	MACHINERY	NO'S
1.	Excavator	3
2	Dozzer	2
3.	Tippers	7



c) **EMPLOYMENT POTENTIAL**

The human resources deployed are as follows :

S.NO.	CATEGORY	NO'S
1.	Mines Manager / Mining Engineer	1
2.	Operators	4
3.	Helpers	8
4.	Tipper Drivers	10
5.	Skilled Workers	4
6.	Semi Skilled Workers	10
7.	Un-skilled Labour	10
8.	Managerial Staff	3
	<b>TOTAL</b>	<b>50</b>





## **PART – B**

### **1.0 ENVIRONMENT BASE LINE INFORMATION**

<b>i</b>	<b>Existing Land Use Pattern</b>	The mining lease area is part of undulating and sloping terrain area with moderate to steeply sloping. The land is barren with boulders and rocky exposures and not fit for cultivation.
<b>ii</b>	<b>Water Regime</b>	There is no water course in the area. Tiny rills rise from the plateau culminating into a few nalas at the bottom.
<b>iii</b>	<b>Flora and Fauna</b>	Thickets of thorny creepers comprise the vegetation in the subject area while mixed species thrive in the "Maredumilli South Reserve Forest in the West and Puttakota Reserve Forest in the East" which surrounding the mining lease area. Rabbit, Porcupine and Jackal make up the fauna in the mining lease area
<b>iv</b>	<b>Quality of Air, Ambient Noise Level and Water</b>	<ul style="list-style-type: none"><li>• Air quality is good but at quarries it is filled with dust, due to haulage on the road.</li><li>• The noise generated mostly due to vehicular traffic</li></ul>
<b>v</b>	<b>Climatic Conditions</b>	The mining leased area experience semi arid climatic condition. The area experience 1000 mm average annual rainfall during August - November months. The day temperature varies 28°C in winter and about 50°C in summer season. The general wind direction is SW to NE & SE- NW.



vi	Human Settlement	<p>The nearest village Tadepalli is situated 1.50 Km due SW of the mining lease area, having a population of 1,080 No's. Agriculture and sheep breeding are important profession of the people living in the village besides involving themselves in quarrying activity.</p> <table><tr><th>S.No.</th><th>Village</th><th>Direction</th><th>Aerial Distance (Km)</th><th>Approx. Population (No's)</th></tr><tr><td>01.</td><td>Maddiveedu</td><td>West</td><td>1.75</td><td>237</td></tr><tr><td>02.</td><td>Vetukuru</td><td>NW</td><td>5.00</td><td>645</td></tr><tr><td>03.</td><td>Chintakoyya</td><td>NE</td><td>4.00</td><td>200</td></tr><tr><td>04.</td><td>Vaidapudi</td><td>SE</td><td>3.75</td><td>288</td></tr><tr><td>05.</td><td>Yelamalakota</td><td>SE</td><td>5.00</td><td>375</td></tr><tr><td>06.</td><td>Gurramamidi</td><td>SE</td><td>4.50</td><td>348</td></tr><tr><td>07.</td><td>Puttagondi Lanka</td><td>SE</td><td>3.75</td><td>350</td></tr><tr><td>08.</td><td>Tadepalli</td><td>SW</td><td>1.50</td><td>1,080</td></tr><tr><td>09.</td><td>Mallavaram</td><td>SW</td><td>4.25</td><td>248</td></tr></table>	S.No.	Village	Direction	Aerial Distance (Km)	Approx. Population (No's)	01.	Maddiveedu	West	1.75	237	02.	Vetukuru	NW	5.00	645	03.	Chintakoyya	NE	4.00	200	04.	Vaidapudi	SE	3.75	288	05.	Yelamalakota	SE	5.00	375	06.	Gurramamidi	SE	4.50	348	07.	Puttagondi Lanka	SE	3.75	350	08.	Tadepalli	SW	1.50	1,080	09.	Mallavaram	SW	4.25	248
S.No.	Village	Direction	Aerial Distance (Km)	Approx. Population (No's)																																																
01.	Maddiveedu	West	1.75	237																																																
02.	Vetukuru	NW	5.00	645																																																
03.	Chintakoyya	NE	4.00	200																																																
04.	Vaidapudi	SE	3.75	288																																																
05.	Yelamalakota	SE	5.00	375																																																
06.	Gurramamidi	SE	4.50	348																																																
07.	Puttagondi Lanka	SE	3.75	350																																																
08.	Tadepalli	SW	1.50	1,080																																																
09.	Mallavaram	SW	4.25	248																																																
vii	Public Buildings, Places & Monuments	<p>No public buildings, important places and monuments are seen in and around the mining lease area; however, the lessee will adopt the safety measures while conducting the mining operations as per the Regulations 109 &amp; 127 of Metalliferous Mines Regulation, 1961.</p>																																																		
viii	Sanctuaries	<p>No bird or animal sanctuaries are existing in 10 Km radius</p>																																																		
ix	Eco-Sensitive Areas	<p>No Eco Sensitive are existing in 10 Km radius</p>																																																		



x	Afforestation	The lessee proposes for afforestation along the SSW of the mining leased area between the grids N 00 – 100 & E 00 – 200 covering an area of 1,000 M <sup>2</sup> within the 7.5 M buffer zone in phased manner during the plan period with Neem / Mango plants (or) as desire of the Forest officials. (Plate – V)			
		Year	Area (M <sup>2</sup> )	No. of Plants	Type of Plants
		1 <sup>st</sup> (2023 – 24)	200.00	40	Neem / Mango (or) as desire of the Forest officials
		2 <sup>nd</sup> t (2024 – 25)	200.00	40	
		3 <sup>rd</sup> (2025 – 26)	200.00	40	
		4 <sup>th</sup> (2026 – 27)	200.00	40	
		5 <sup>th</sup> (2027 – 28)	200.00	40	
TOTAL	1,000.00	200			

## 2.0 ENVIRONMENTAL IMPACT ASSESSMENT

a	Landscape Changes	<p>A large pit of 1,21,300.00 M<sup>2</sup> to an average depth of 18 M will be formed in the mining leased area at the end of present scheme period. The mining will alter the shape of the present hill slope exposing the country rock Khondalite.</p>												
b	Air Quality	<p>Air quality is good but at quarries it is filled with dust, due to haulage on the road, but it will be within the permissible limits by sprinkling water on roads and covering the drill rods with cloth. Air quality will not be disturbed, as the Mining is very limited.</p> <table><thead><tr><th>Base Level</th><th>Allowable Level</th></tr></thead><tbody><tr><td>SPM = 140µg/m<sup>3</sup></td><td>360µg/m<sup>3</sup></td></tr><tr><td>RSPM = 60µg/m<sup>3</sup></td><td>120µg/m<sup>3</sup></td></tr><tr><td>SO<sub>2</sub> = 40µg/m<sup>3</sup></td><td>80µg/m<sup>3</sup></td></tr><tr><td>NO<sub>2</sub> = 40µg/m<sup>3</sup></td><td>80µg/m<sup>3</sup></td></tr><tr><td>CO = 1.0µg/m<sup>3</sup></td><td>5.0µg/m<sup>3</sup></td></tr></tbody></table>	Base Level	Allowable Level	SPM = 140µg/m <sup>3</sup>	360µg/m <sup>3</sup>	RSPM = 60µg/m <sup>3</sup>	120µg/m <sup>3</sup>	SO <sub>2</sub> = 40µg/m <sup>3</sup>	80µg/m <sup>3</sup>	NO <sub>2</sub> = 40µg/m <sup>3</sup>	80µg/m <sup>3</sup>	CO = 1.0µg/m <sup>3</sup>	5.0µg/m <sup>3</sup>
Base Level	Allowable Level													
SPM = 140µg/m <sup>3</sup>	360µg/m <sup>3</sup>													
RSPM = 60µg/m <sup>3</sup>	120µg/m <sup>3</sup>													
SO <sub>2</sub> = 40µg/m <sup>3</sup>	80µg/m <sup>3</sup>													
NO <sub>2</sub> = 40µg/m <sup>3</sup>	80µg/m <sup>3</sup>													
CO = 1.0µg/m <sup>3</sup>	5.0µg/m <sup>3</sup>													
c	Water Quality	<p>The water environment will not be disturbed as the mine is far off from the water courses.</p> <p>The mining of Laterite has no adverse affect is anticipated on the water regime in the area</p>												



d	Noise Levels	The haulage generate noise. However, the probable noise level will be within the permissible limits and will not cause harm. The lessee will provide suitable protective gear to the workers for minimizing the noise pollution and the machinery will be well maintained.
e	Vibration Levels	The vibrations that will be generated due to heavy machinery will be meager
f	Water Environment	The water environment will not be disturbed as the mine is far off from the water courses.
g	Acid Mine Drainage	No acids will be generated from Laterite mines
h	Surface Subsidence	No subsidence is anticipated in this regime as the basement rock is massive and away from the seismic zone
i	Socio economics	<p>The main occupation of villagers is agriculture and sheep rearing. The commencement of mining activity in this area improved the socio-economic status of the local people by creation of employment and paying taxes to gram panchayat.</p> <p>The mining in this area does not involve any hazardous methods. The lessee is providing First Aid facilities at mine site.</p> 
j	Historical Monuments	No historical monuments exist within 5 Km radius
k	Bio-Diversity	No impact will happen to the Mankind, Flora and Fauna by the mining operations, excepting minor vibrations, sound pollution and dust which will be under control and within the permissible limits.



## **PART – C**

### **PROGRESSIVE QUARRY CLOSURE PLAN**

#### **1.0 INTRODUCTION**

The Progressive Mine Closure Plan is prepared under Rule 23 (B) MCDR '1988. The main paras are common points, which are already discussed in main document of Scheme of Mining

**a) Name of the Lessee**

**M/s RAJIV TRIBAL QUARRY LCC SOCIETY LIMITED**

Registered with R. C. No. 1596 / 2010 C,

President : A. Somireddy,

Tadapalli Village,

Maredumilli Mandal,

East Godavari District.

Andhra Pradesh State.

Mobile No. 94406 70917

**b) Location**

Discussed in Page No. 6

**c) Type of area (Forest or Non – Forest area etc.,)**

Protected Forest.

**d) Address of RQP**

Discussed in Page No. 5

**e) The present land use pattern**

The mining lease area is part of Protected Forest in Compartment No. 750 which was diverted for mining of Laterite mineral.





**Description of lease area details :**

1. Mining Area : 14.89 Ha
2. Safety Zone Area : 1.44 Ha
3. Road Area : 0.06 Ha

Total : 16.39 Ha

S.No.	Pattern of proposed Land Utilization	Existing Land Use Area put on use (Ha.)	Area proposed for degradation during plan period (Ha.) 2023-24 to 2027-28
1	Mining Pit	Nil	13.330
2	Dump (Temporary) *	Nil	1.365
3	Stock Yard	Nil	0.195
4	7.5 M Wide Safety Zone within lease area	1.440	Nil
5	Proposed Road outside mining area within the Reserved Forest	0.060	Nil
TOTAL		1.500	14.890

\* The waste generated will be backfilled in the mined-out pit at the end of the life of mine

**f) Reasons for Closure**

No Mine Closure is anticipated in five years period.

**g) Statutory Obligations**

The lessee do not have any Statutory Obligations.

**2.0 PROGRESSIVE RECLAMATION PLAN**

The pits will be utilized for water storage and water harvesting structure.

Year	Pit No.	Mined out area at the beginning (Ha)	Additional area proposed for working in the year (Ha)	Total Area (Ha)	Backfilling & Afforestation in the year (Ha)	Mined out area at the end of the year (Ha)
<sup>1<sup>st</sup></sup> (2023 - 24)	1	Nil	6.120	6.120	-	6.120
<sup>2<sup>nd</sup></sup> (2024 - 25)		6.120	6.010	12.130	-	12.130
<sup>3<sup>rd</sup></sup> (2025 - 26)		12.130	-	12.130	-	12.130
<sup>4<sup>th</sup></sup> (2026 - 27)		12.130	-	12.130	-	12.130
<sup>5<sup>th</sup></sup> (2027 - 28)		12.130	-	12.130	-	12.130



### 3.0 MINED OUT LAND

The mined out pit can be utilized for water recharge structure.

Land Use Pattern of the mining area will be as follows :

Area		M <sup>2</sup>	Hectares
Active Mine Area	Broken	Nil	Nil
	To be broken	1,33,300	13.330
7.5 M Wide Safety Zone within lease area		14,400	1.440
Dump (Temporary) *		13,650	1.365
Proposed Road outside mining area within the Reserved Forest		600	0.060
Stock Yard		1,950	0.195
MINING LEASE AREA UTILIZED		1,63,900	16.390
TOTAL MINING LEASE AREA		1,63,900	16.390

\* The waste generated will be backfilled in the mined-out pit at the end of the life of mine

The land that will be broken in the successive conceptual periods, the Life of the Mine is anticipated to be 7 years as of present



#### CONCEPTUAL PLAN :

##### a) Exploitation

Conceptual Plan Period	Mining Operations		Afforestation
	Proposed Area of Mining (M <sup>2</sup> )	Anticipated depth of the Pit (M)	Area / Plants (M <sup>2</sup> )
During next five year period	1,09,000.00	5.00	3000 M <sup>2</sup> (7.5 M buffer zone)



## **Reclamation**

The matured pits will be backfilled by re-handing of waste from the temporary dumps as a reclamation measure and balance of pits will be utilized as water harvesting structure

A barbed wire fence will be erected around the excavated pit for arresting the entry of stray animals and humans.

A security will be is arranged at the quarry site for entry of stray animals and unauthorised persons.

### **4.0 TOP SOIL MANAGEMENT**

The fertile soil, if any, recovered will be spread in the 7.5 m buffer zone for developing the plantation over it.

### **5.0 TAILING DAM MANAGEMENT**

Not applicable

### **6.0 DISASTER MANAGEMENT AND RISK ASSESSMENT**

To mitigate the emergency, planning is the first & foremost thing, i.e. recognizing the accident or possible, assessing the consequences of such possible accidents and deciding on emergency planning / procedures in advance both on site & off site that would necessary to be implemented in the event of emergency without any delay and confusion.

Proper bench design in mines and observing safety measures for transportation, storage, handling of explosives & fuels, etc, good maintenance of vehicles, roads, fire prevention measures shall go in preventing disaster / accidents.

The lessee is committed to identify the possible causes for potential disaster and draw a code of emergency measures and procedures to deal with such disasters, which is otherwise also advised by DGMS through their circulars.

The mine is located at the distance of 80 Km from Rajahmundry town having good transport and communication systems.

The mine is having good communication like telephone & mobile facility. In case of any minor / major accidents within the mine, the same will be communicated to the Agent by the Mines Manager and intern he will inform to the Revenue Authorities, Police, Fire Department, DGMS etc for action.

A vehicle will be kept all the time at the mine site for conveyance.

At mine level First Aid will provided and person(s) shall be shifted to nearby hospital at Rampachodavaram which is having all basic amenities.



The details of nearest Fire Station, Police Station, Hospital details are as under

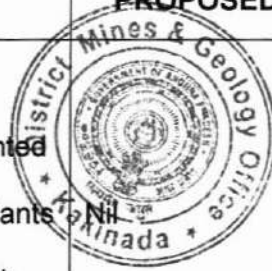
<b>Fire Station</b>	Rampachodavaram (24.00 Km via. Rajahmundry – Bhadrachalam Highway)
<b>Police Station</b>	Rampachodavaram (24.00 Km via. Rajahmundry – Bhadrachalam Highway)
<b>Hospitals</b>	Rampachodavaram (24.00 Km via. Rajahmundry – Bhadrachalam Highway)

To carry out / implement the above responsibilities the lessee has adequate staff.

## 7.0 CARE AND MAINTENANCE DURING TEMPORARY DISCONTINUANCE

An emergency plan for the situation of temporary discontinuance due to court order or due to statutory requirements or any other unforeseen circumstances may indicate measures of care, maintenance and monitoring of status of discontinued mining operations expected to re-open in near future.

Fencing has been made all around the quarry pit and also dumps to avoid intrusion. Round the clock security with lighting arrangement was made.

ITEM	DETAILS	PROPOSED	ACTUAL
Dump Management	Area afforested (Ha) 1. No. of saplings planted 2. Cumulative no of plants 3. Cost including watch and care during the year	 Nil	Nil
Management of worked out benches	1. Area available for rehabilitation (specify) 2. No of saplings planted in the year 3. Cumulative no of plants 4. Any other method of rehabilitation (specify) 5. Cost including watch and care during the year	Plantation is proposed all along the 7.5 M Buffer Zone	-

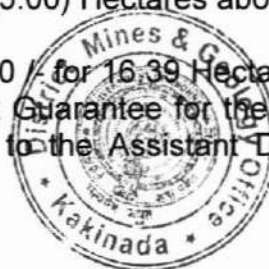


Reclamation and Rehabilitation by backfilling	<ol style="list-style-type: none"> <li>1. Void available for backfilling (L x B x D) pit wise / stope wise Void filled by waste / tailings afforestation on the backfilled area</li> <li>2. Rehabilitation by making water reservoir</li> <li>3. Any other means (specify)</li> </ol>	The waste will be re-handled to backfill the matured pits	-
Rehabilitation of waste land within lease	<ol style="list-style-type: none"> <li>1. Area available (Ha)</li> <li>2. Area rehabilitated</li> <li>3. Method of rehabilitation</li> </ol>	No proposals are made	-

## 8.0 FINANCIAL ASSURANCE

The lessee will submit Financial Assurance as per G.O.Ms. No. 13 dated 14-03-2022 as per APMML Rules, 1966 in the form of deposit in the Head of Account as prescribed by the Government, a minimum of amount of Financial Assurance shall be Rs. 50,000/- (Rupees Fifty Thousand) for the quarry lease granted below five (5.00) Hectares and Rs. 10,000/- (Rupees Ten Thousand) per Hectare or part thereof for the quarry lease granted five (5.00) Hectares above.

This amount works out to be Rs. 1,63,900 /- for 16.39 Hectares of area. Hence, the Financial Assurance in the form of Bank Guarantee for the amount Rs. 1,63,900/- for the above extent will be submitted to the Assistant Director, Department of Mines & Geology, Rajamahendravaram.





## 9.0 FINANCIAL ASSURANCE PROFORMA

Information indicating breakup of areas in the mining lease for calculation of financial assurance

### DETAILS OF AREA CONSIDERED FOR COMPUTATION OF FINANCIAL ASSURANCE

S.No.	Head	Area put on use at the start of plan (in Ha.)	Additional requirement during the plan period (in Ha.)	Total (in Ha.)	Area considered as fully reclaimed and rehabilitated (in Ha.)	Net area considered for calculation (in Ha.)
1	2	3	4	5	6	7
1	Area under Mining	Nil	13.330	13.330	-	13.330
2	Storage for Top Soil	Nil	Nil	Nil	-	Nil
3	Overburden / Dump (Temporary) *	Nil	1.365	1.365	-	1.365
4	Mineral Storage	Nil	0.195	0.195	-	0.195
5	Infrastructure (Workshop, Administrative Building etc.,) (within 7.5 M buffer zone)	Nil	(0.030)*	(0.030)*	-	(0.030)*
6	Proposed Road outside mining area within the Reserved Forest	0.060	Nil	0.060	-	0.060
	Proposed Roads (within the workings)	Nil	(0.212)*	(0.212)*	-	(0.212)*
7	7.5 M Wide Safety Zone within lease area	1.440	Nil	1.440	-	1.440
8	Railways	Nil	N.A.	N.A.	-	N.A.
9	Green Belt (within 7.5 M buffer zone)	Nil	(0.100)*	(0.100)*	-	(0.100)*
10	Tailing Pond	Nil	N.A.	N.A.	-	N.A.
11	Effluent Treatment Plant	Nil	N.A.	N.A.	-	N.A.
12	Mineral Separation Plant	Nil	N.A.	N.A.	-	N.A.
13	Township Area	Nil	N.A.	N.A.	-	N.A.
14	Fencing around the pit in length (M)	Nil	(1,820 M)	(1,820 M)	-	(1,820 M)
	GRAND TOTAL	A	B	C = (A + B)	D	E = (C - D)
		1.500	14.890	16.390	-	16.390

\* The waste generated will be backfilled in the mined-out pit at the end of the life of mine

\* Proposed areas will not be considered for financial assurance.



## 10.0 CERTIFICATE

Certified that the above mentioned will be taken care mining lease area for Laterite over an extent of 16.39 Hectares (40.50 Acres) in the Diversion of Forest Land Falling in Compartment No. 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Foulkspeta Range, Rampachodavaram Division, 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 closure plan will be implemented in a time bound manner as proposed.

## 11.0 PLANS & SECTIONS

The Plans and Sections are enclosed.



RAJIV TRIBAL QUARRY LABOUR  
CONTRACT CO-OP. SOCIETY LTD.

A. Sami Reddy  
PRESIDENT

LESSEE

M/s RAJIV TRIBAL QUARRY LCC  
SOCIETY LIMITED

RQP

(V. T. CHANDER)  
(RQP / DMG / AP / 01 / 2022)

# APPROVED

S. Nagaraj Reddy  
DISTRICT MINES & GEOLOGY OFFICER  
KAKINADA, KAKINADA DISTRICT

This Mining Plan is Approved subject to  
the conditions Stipulated indicated in  
the Mining Plan Approval Letter

IN No. 3498/Laterite/2022 Date 28.10.2023



GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY, VISAKHAPATNAM

ANNEXURE - II

Letter No.5284/MP-RJY/2012

Dated:12.03.2013

From  
Rafi Ahmed, M.Sc.,  
Joint Director,  
Directorate of Mines and Geology,  
B.R.K.R.Bhavan, Tankbund,  
Hyderabad - 500 063.

To  
✓ 1. M/s Rajiv Tribal Quarry LCC Society Ltd.,  
Registered with R.C.No. 1596/2010 C,  
President: A.Somi Reddy,  
Tadapalli Village, Maredumilli Mandal,  
East Godavari District

2. Sri V.T.Chander, RQP,  
H.No:10-1, Flat No:202,  
Mahalaxmi Ganapathi Complex,  
Sai Baba Temple Lane,  
Above AXIS Bank ATM,  
P&T Colony, Dilsukhnagar,  
Hyderabad-500 060.

Sir,

Sub: Mines and Minerals - Approval of Mining Plan for Laterite over an extent of 16.390 Ha in Un-reserved Forest in Sy.No.37 & 38 of Maddiveedu H/o.Tadepalli Village, Maredumilli Mandal, East Godavari District - Mining Plan submitted by M/s Rajiv Tribal Quarry LCC Society Ltd., Rep. by President: Sri A.Somi Reddy and prepared by Sri V.T.Chander, RQP, Regd. No.RQP/HYD/02/2001 - Mining Plan - Approved - Reg.

Ref: 1. G.O.Ms.No.23, Ind.&Com.[M.I]Dept., dated 30.03.2010.  
2. Govt. Memo No. 15281/M.III (1)/2012-1, dated 14.11.2012  
3. Letter No. Nil, dated: 24.12.2012 from M/s Rajiv Tribal Quarry LCC Society Ltd., President: A.Somi Reddy alongwith draft Mining Plan.  
4. This office Letter No. 5284/MP-RJY/2012, dated: 28.02.2013.  
5. Letter No. Nil, dated: 05.03.2013 from Sri V.T.Chander, RQP with fair Mining Plans received on 07.03.2013.

ooOoo

Through the reference 2<sup>nd</sup> cited, the Government proposed to grant a Mining Lease for Laterite over an extent of 16.390 Ha in Un-reserved Forest in Sy.No.37 & 38 of Maddiveedu H/o. Tadepalli Village, Maredumilli Mandal, East Godavari District to M/s Rajiv Tribal Quarry LCC Society Ltd., Rep. by President: Sri A.Somi Reddy, subject to submission of Approved Mining Plan and other statutory clearances.

Through reference 3<sup>rd</sup> cited, M/s Rajiv Tribal Quarry LCC Society Ltd., Rep. by President: Sri A.Somi Reddy submitted draft mining plan to the Zonal Joint Director of Mines and Geology, Visakhapatnam for taking necessary action.

The area proposed for grant of Mining Lease was inspected and surveyed by the Asst. Geologist, O/o. Assistant Director of Mines and Geology, Rajahmundry alongwith Asst. Mines Officer, O/o. Zonal Joint Director of Mines and Geology, Visakhapatnam on 09.01.2013 and submitted inspection and scrutiny reports on the draft mining plan with certain comments. Further, the applied area was also inspected by the undersigned on 28-02-2013.

After verification of the draft Mining Plan with reference to the inspection and scrutiny reports and field observations on 28-02-2013, the draft Mining Plan was corrected/modified and through the reference 4<sup>th</sup> cited, it was returned to the RQP to make necessary corrections as suggested and to submit fair mining plans for taking further necessary action.

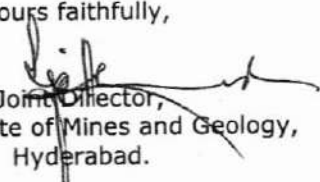
Accordingly, Sri V.T.Chander, RQP through reference 5<sup>th</sup> cited after rectification of the modification/correction submitted fair Mining Plans for the proposed Mining Lease for Laterite over an extent of 16.390 Ha in Un-reserved Forest in Sy.No.37 & 38 of Maddiveedu H/o. Tadepalli Village, Maredumilli Mandal, East Godavari District for grant to M/s Rajiv Tribal Quarry L.C.C. Society Ltd., President: A.Somi Reddy.



In exercise of the powers conferred as per Sub-Rule 4 (a) of Rule 22 of Mineral Concession Rules 1960 and as per the orders issued by the Government through the reference 1<sup>st</sup> cited, I hereby approve the Mining Plan submitted by M/s Rajiv Tribal Quarry LCC Society Ltd., Rep. by President: Sri A.Somi Reddy for mining lease of Laterite over an extent of 16.390 Ha in Un-reserved Forest in Sy.No.37 & 38 of Maddiveedu H/o. Tadepalli Village, Maredumilli Mandal, East Godavari District, prepared by Sri V.T.Chander, RQP, Regd. No.RQP/HYD/02/2001 as per the notice issued by the Government through the reference 2<sup>nd</sup> cited. However, the approval is subject to the following conditions:

1. The approval is without prejudice to any other laws applicable to the Mining Lease area from time to time made by the Central Government, State Government or any other Authority, including the requirement of approval by Ministry of Environment and Forest and also State Pollution Control Board.
2. After grant and execution of Mining Lease deed, the mining operations shall be as per the production indicated in the Mining Plan/EC/CFE/CFO. In case of any enhancement of the production, revised mining plan/EC/CFE/CFO shall be obtained.
3. The approval of Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines & Minerals (Development and Regulation) Act, 1957 or the Minerals Concession Rules, 1960 and any other laws including the Forest conservation Act, 1980.
4. The Authority does not owe the responsibility with regard to Erroneous Certification of plans and sections and assessment of the reserves, made by the RQP if any and the approval is purely tentative subject to modification based on new findings at a later date.
5. The approval of Mining Plan is accorded with a condition that the applicant has to furnish the financial assurance as per Rule 23 (f) of MCDR, 1988 and also subject to obtaining prior permission from Director General of Mines Safety whenever and wherever required.
6. After the grant of Mining Lease by the Govt. the applicant shall fence the Mining Leased area and maintain in full repair at all times during the lease period and shall take all precautions against any possible danger due to accidental fall of any person and livestock and shall indemnify the consequences thereof without any liability to State Government.
7. The mining operations shall always be carried out only in the presence of competent persons under Mines Act, 1952 duly maintaining all plans and sections at the work spot for verification by any Statutory Authority.
8. During conduct of mining operations if any new mineral is found occurring in the area, it shall be immediately brought to the notice of the Department and such mineral shall not be dispatched without inclusion in the mining lease as per Rules.
9. Once the Mining Lease area becomes accessible and mining operations commence, the Assistant Director of mines and Geology, Rajahmundry shall periodically collect samples of the mineral at least on quarterly basis and send to the Department Chemical Laboratory for analysis.

Yours faithfully,

  
Joint Director,  
Directorate of Mines and Geology,  
Hyderabad.

Copy submitted to the Director of Mines and Geology, Hyderabad alongwith copy of approved mining plan for information.  
Copy to the Regional Controller of Mine, IBM Sultan Bazaar, Hyderabad alongwith copy of approved mining plan for information.  
Copy to the Director, Department of Mines Safety, Hyderabad alongwith copy of approved mining plan for information.  
Copy to the Assistant Director of Mines and Geology, Rajahmundry alongwith copy of approved mining plan for information.





## State Level Environment Impact Assessment Authority (SEIAA)

Andhra Pradesh

Government of India

Ministry of Environment &amp; Forests

A-3, Industrial Estate, Sanathnagar, Hyderabad- 500 018.

REGD. POST WITH ACK. DUE

Order No. SEIAA/AP/E.G- 70/2013

Dt: 02.05.2013

Sub: SEIAA, A.P. - 16.40 Ha. Laterite Mine of M/s. Rajiv Tribal Quarry LCC Society Ltd., Sy.No. 37 & 38, Maddiveedu H/o. Tadepalli (V), Mareduhilli (M), East Godavari District - Environmental Clearance - Issued - Reg.

- I. This has reference to your application submitted vide Ir. dt. 21.12.2012, seeking Environmental Clearance for the proposed Laterite Mine in favour of M/s. Rajiv Tribal Quarry LCC Society Ltd., Sy.No. 37 & 38, Maddiveedu H/o. Tadepalli (V), Mareduhilli (M), East Godavari District. It was reported that the nearest human habitation viz., Maddiveedu (Hamlet) exists at a distance of about 0.2 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 Laterite Mine - 0.526 Million TPA.

- II. It is a semi-mechanized opencast quarry. The Blocks are cut by using jack hammer drilling and blasting. The separated blocks are dressed manually. It is reported that the life of the Mine is estimated as 10 years. The total mine lease area is 16.40 Ha.
- III. The proposal has been examined and processed in accordance with EIA Notification, 2006 and its amendments thereof. The State Level Expert Appraisal Committee (SEAC) examined the application, in its meetings held on 19.01.2013 & 19.03.2013. The Sub-committee constituted by the SEAC inspected the site and submitted the report. 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 consultant M/s. B.S. Envi- Tech (P) Ltd., Hyderabad, inspection report of the Sub-Committee; the Committee considered the project proposal and recommended for issue of Environmental Clearance. The State Level Environment Impact Assessment Authority (SEIAA), in its meeting held on 09.04.2013 examined the proposal and the recommendations of SEAC and decided to issue Environmental Clearance subject to submission of commitment by the proponent. 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:-

- i. 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.
- ii. Greenbelt shall be developed along the boundary of mining lease area and along the 7.5 meter buffer zone with tall growing trees, with the native species in consultation with the local DFO/Agriculture Department.
- iii. 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.
- iv. 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 mitigate the dust emission.

- Water shall be sprinkled 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 MoE&F, 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 ground water. Total water requirement is 10.0 KLD. Out of that, 6.0 KLD is used for water sprinkling on mine haul roads; 2.0 KLD is used for development of green belt; 2.0 KLD is used for 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 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/toe 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.

**B. General Conditions:**

- i. This order is valid for a period of 10 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 mine is 10 years.
- ii. "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, AP/ MoE&F, GoI, 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 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.
- v. Officials from the Regional Office of MoE&F, 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 MoE&F, 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 (Rs 1.5 lakhs) 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.

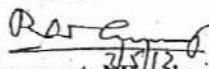
Sd/-  
MEMBER  
SEIAA, A.P.

Sd/-  
CHAIRMAN,  
SEIAA, A.P.

To

Sri. A.Somi Reddy, President,  
M/s. Rajiv Tribal Quarry LCC Society Ltd.,  
(16.40 Ha. Laterite Mine),  
Registered with R.c.No. 1596/2010C, Tadapalli (V),  
Maredumilli (M), E.G.District.  
Ph.No. 9440670917.  
Email: [sri801nivas@yahoo.co.in](mailto:sri801nivas@yahoo.co.in)

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

  
Jt. Chief Environmental Engineer  
(UH-I)





K.VENKATESWARA RAO  
JOINT CHIEF ENV. ENGINEER

ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL OFFICE  
Madhavadhara Vuda Colony, Behind RTA Office,  
Madhavadhara, Visakhapatnam - 530 018.

Ph.: 0891-2719380,481  
Fax: 0891-2719480  
E-mail: zovsp@rediffmail.com  
Website: www.appcb.nic.in

ANNEXURE - VII

1

REGD.POST WITH ACK.DUE

**CONSENT ORDER FOR ESTABLISHMENT**

Order.No.5876/PCB/ZO-Vsp/Tech/2013- 184

Dt. 14 /05/2013

1624  
20 MAY 2013  
Sub: ARPCB, ZONAL OFFICE, VISAKHAPATNAM - CONSENT FOR ESTABLISHMENT - M/s. Rajiv Tribal Quarry LCC Society Limited, R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V), Mareduhill (M), East Godavari District for the Consent for Establishment of the Board under Sec.25 of Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21 of Air (Prevention and Control of Pollution) Act 1981 - Issued - Reg.

- Ref:
1. Industry's CFE application dt.03.05.2013.
  2. RO, Kkd Lr.No.14-R-/PCB/RO-KKD/2013-725, dt.07.05.2013.
  3. Minutes of the CFE Committee meeting held on 10.05.2013.

- I. In the reference 1<sup>st</sup> cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for Mining of Laterite with installed capacities as mentioned below, with a project cost of Rs.15 Lakhs (Rupees fifteen lakhs only)  
Mined Laterite - 0.526 MillionTonnes/Annum  
(Laterite mining to an extent of 16.40 Ha)
- II. As per the application, the above activity is to be located at R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V), Mareduhill (M), East Godavari District.
- III. The above site was inspected by the Asst.Environmental Engineer, Regional office, A.P Pollution Control Board, Kakinada on 04.05.2013 and found that the site is surrounded by East : Forest Land, West : Forest Land, North : Forest Land, South : Maddiveedu Panchayath road..
- IV. The Board, after careful scrutiny of the application and verification report of Regional Officer, Kakinada hereby issues CONSENT FOR ESTABLISHMENT to your unit / activity Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued to manufactured the products as mentioned at para (1) only.
- V. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.
- VI. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'  
Schedule 'B'

To  
M/s. Rajiv Tribal Quarry LCC Society Limited,  
R.Sy.No.37 & 38, Maddiveedu,  
H/o.Tadepalli Gram Panchayath (V),  
Mareduhill (M),  
East Godavari District

Cc.to: The Joint Chief Env. Engineer (CFE), APPCB, Hyderabad for information.  
Cc.to: The Environmental Engineer, APPCB, Regional Office, Kakinada for information

Sd/-  
JOINT CHIEF ENV.ENGINEER

K Rao, 14/5/13.  
JOINT CHIEF ENV. ENGINEER  
Joint Chief Environmental Engineer  
A.P.POLLUTION CONTROL BOARD  
ZONAL OFFICE  
KAKINADA



SCHEDULE - A

- 1) Progress on implementation of the project shall be reported to the A.P. Pollution Control Board, Regional Office, Kakinada once in six months.
- 2) Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
- 3) The proponent shall obtain Consents for operation from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
- 4) Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.
- 5) The consent of the Board shall be exhibited in the factory premises at a conspicuous place for the information of the inspecting officers of different departments.
- 6) Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
- 7) Floor washing shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. The industry shall maintain a good housekeeping. All pipe valves, sewers, drains shall be leak proof. Dyke walls shall constructed around storage of chemicals.
- 8) Rain Water Harvesting (RWH) structure(s) shall be established on the plant site. The proponent shall ensure that effluent shall not enter the Rain Water harvesting structure.
- 9) The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public liability insurance Act, 1991 shall be followed.
- 10) This order is valid for period of 5 years from the date of issue.

SCHEDULE - BWater:

- 1) The source of water is Ground water / Pit water and the maximum permitted water consumption is as follows:

	Purpose	Proposed
a)	Dust suppression (for Sprinkling)	8 KLD
b)	Domestic	2 KLD
	Total	10 KLD

- 2) The maximum Waste Water Generation (KLD) shall not exceed the following:

	Purpose	Proposed
a)	Domestic	1.6 KLD
	Total	1.6 KLD

15/11/13  
JOINT CHIEF ENV. ENGINEER  
Joint Chief Environmental Engineer  
A.P. POLLUTION CONTROL BOARD  
ZONAL OFFICE  
VISAKHAPATNAM



Effluent source	Standards to be complied	Mode of final disposal
Domestic	pH - 5.5 - 9.0 TSS - 200 mg/l BOD - 100 mg/l	Septic tank followed by soak pit

- 3) Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.
- Industrial cooling, spraying in mine pits or boiler feed.
  - Domestic purposes.
  - Processing, whereby water gets polluted and pollutants are easily bio-degradable.
  - Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

**Air:**

- 4) The proponent shall comply with the following for controlling air pollution.

Details of fugitive Emissions:	Control Equipment	Standards to be complied
Dust emissions during mining activity	Water sprinkling	The industry shall adopt adequate dust control measures to comply with Ambient Air quality standards of Particulate matter (size less than 10 $\mu\text{m}$ ) or $\text{PM}_{10}$ -100 $\mu\text{g}/\text{m}^3$ ; Particulate matter (size less than 2.5 $\mu\text{m}$ ) or $\text{PM}_{2.5}$ -60 $\mu\text{g}/\text{m}^3$ .

- 5) The generator shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.

**Solid Waste:**

- 6) The proponent shall comply with the following:

Sl. No	Solid Waste generated from	Quantity (Kg/day)	Hazardous / as defined under HWM Rules, 2003.	Treatment	Method of Disposal
1)	Process	0.267 Million Tonnes / Annum	Non Hazardous	-	Proposed to dump in the mining area for backing filling of excavated mine as per the directions of the Department of Mining & Geology
2)	Waste oil	100 LPA	5.1 of Schedule-I	-	Agencies authorized by APPCB

- 7) The following rules and regulations notified by the MOE&F, GOI shall be implemented.
- Hazardous waste (Management, Handling and Transboundary Movement), Rules, 2008 and its Amendments thereof.
  - Manufacture, storage and import of hazardous chemicals Rules, 1989 and Amendment.
  - Rules for manufacture, use, import, export and storage of Hazardous micro-organisms / genetically engineered organisms or cells, 1989 and Amendment.



Other Conditions:

1. The industry shall maintain buffer zone by developing green belt of width 10m all around the mining area. Green belt development shall be started along with the construction activity.
2. The top soil shall be handled properly for back filling / reclamation / rehabilitation of mined out area.
3. The proponent shall not cause dust / air pollution problems to the surrounding environment.
4. The proponent shall provide water sprinklers for dust suppression along the mining area and provide water tankers for the dust suppression along the roads in the village.
5. The proponent shall carryout mining as per the approved mining plan only.
6. Thick plantation shall be developed along the sides of the internal roads and mined area.
7. The proponent shall not carryout Blasting operations for mining of minerals.
8. The proponent shall construct appropriate Garland drain and siltation ponds to arrest flow of silt and sediment and the water so collected should be utilize for sprinkling in the mine area, haulage roads and for green belt development.
9. The natural rain water drainage system shall not be disturbed.
10. The industry shall conduct interactive meetings with the nearby villages periodically to know the impact of the mining activity and also to know the pollution problems if any to the nearby villagers due to operation of the mining.
11. Industry shall take up activities in the nearby villages under CSR programme to improve Socio Economic Development in the villages in consultation with the District Administration and submit the report the Board every year.
12. The industry shall take following measures to reduce air pollution to the surroundings:
  - a) Roads shall be graded to mitigate the fugitive dust emissions.
  - b) Over filling of tippers and consequent spillage on the roads shall be avoided. The trucks shall be covered with tarpaulin.
  - c) Regular water sprinkling is to be carried out on bench floors and all along the haulage roads and other service roads for dust suppression.
13. The industry shall dump the over burden (OB) materials by forming OB benches and shall grow vegetation over the benches as per the standard procedure.
14. The industry shall take following measures to control noise pollution:
  - a) Proper regular maintenance of vehicles and other equipment.
  - b) Limiting time exposure of workers to excessive noise and dust.
  - c) The workers employed shall be provided with occupational safety equipment such as earmuffs etc.
  - d) 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.
15. The industry shall use drilling machines with inbuilt water sprinkling system.
16. The proponent shall comply with the conditions stipulated in EC obtained vide order No.SEIAA/AP/EG-70/2013, dt.02.05.2013.

To:  
 M/s. Rajiv Tribal Quarry LCC Society Limited,  
 R.Sy.No.37 & 38, Maddiveedu,  
 H/o.Tadepalli Gram Panchayath (V),  
 Maredumill (M),  
 East Godavari District

K. Rao 14/5/17  
 JOINT CIVIL & Environmental Engineer,  
 JOINT GRAMMACHARY ENGINEER  
 A.P. POLLUTION CONTROL BOARD  
 ZONAL OFFICE  
 VISAKHAPATNAM



GOVERNMENT OF ANDHRA PRADESH  
**ABSTRACT**

**MINES & MINERALS - Mining Lease** for Laterite over an extent of 40.50 Acres in Un-reserved Forest in Sy.No.37 (18.86 Acres) & Sy.No.38 (21.64 Acres) of Maddiveedu village, H/o.Tadepalli Grampanchayat, Mareduhilli Mandal, East Godavari District in Agency area (Schedule area) to M/s.Rajiv Tribal Quarry Labour Contract Co-operative Society Limited for a period of 20 years - Sanctioned - Orders - Issued.

INDUSTRIES & COMMERCE (M.IV) DEPARTMENT

G.O.Ms.No.67

**Dated:02-08-2013.**

Read the following:-

1. Govt.Memo.No. 15281/M-III(1)/2012-1, Ind. & Com (M.III) Deptt., dt.14-11-2012.
2. From the APPCB Order No. 5876/PCB/ZO-VsP/ Tech/2013-184, dated 14-05-2013
3. From the MoEF Order No. SEIAA/AP/E.G.-70/2013, dated 02-05-2013
4. From the Director of Mines & Geology, Hyderabad File No.41805/R2-1/2011, dated 21-06-2013.

**ORDER :**

In the reference 1<sup>st</sup> read above, Government have proposed in principle to grant Mining Lease for Laterite over an extent of 40.50 Acres in Un-reserved Forest in Sy.No.37 (18.86 Acres) & Sy.No.38 (21.64 Acres) of Maddiveedu village, H/o.Tadepalli Grampanchayat, Mareduhilli Mandal, East Godavari District in Agency area (Schedule area) to M/s.Rajiv Tribal Quarry Labour Contract Co-operative Society Limited for a period of 20 years, subject to submission of Approved Mining Plan under Rule 22(4) of M.C. Rules,1960, within a period of 6 months from the date of receipt of said memo along with Consent for Establishment (CFE) from the A.P. Pollution Control Board and Environmental Clearance from the Ministry of Environment & Forest, Government of India as per S.O.1533, dt.14-09-2006.

2. In the reference 4<sup>th</sup> read above, the Director of Mines & Geology has stated that M/s Rajiv Tribal Quarry Labour Contract Co-operative Society Limited, East Godavari District through their letter dated 14-05-2013 have submitted Mining Plan approved by the Zonal Joint Director of Mines & Geology, Visakhapatnam along with Consent for Establishment (CFE) issued by A.P. Pollution control Board vide reference 2<sup>nd</sup> read above and Environmental Clearance issued by State Level Environmental Impact Assessment Authority (SEIAA), Government of India and Ministry of Environment and Forest, Hyderabad vide reference 3<sup>rd</sup> read above. The Director of Mines & Geology, Hyderabad has therefore recommended to the Government for grant of Mining Lease for Laterite over an extent of 40.50 Acres in Un-reserved Forest in Sy.No.37 (18.86 Acres) & Sy.No.38 (21.64 Acres) of Maddiveedu village, H/o.Tadepalli Grampanchayat, Mareduhilli Mandal, East Godavari District in Agency area (Schedule area) for period of 20 years to M/s.Rajiv Tribal Quarry Labour Contract Co-operative Society Limited.



3. Government, after careful examination of the matter, hereby grant Mining Lease for Laterite over an extent of 40.50 Acres in Un-reserved Forest in Sy.No.37 (18.86 Acres) & Sy.No.38 (21.64Acres) of Maddiveedu village, H/o.Tadepalli Grampanchayat, Maredumilli Mandal, East Godavari District in Agency area (Schedule area) for a period of 20 years to M/s.Rajiv Tribal Quarry Labour Contract Co-operative Society Limited, subject to satisfaction of terms and conditions laid down in Mines and Minerals (Development & Regulation) Act,1957 and Mineral Concession Rules,1960 and also subject to the conditions in Form-K prescribed under the M.C. Rules, 1960 and to the additional conditions specified in the Appendix to this order and subject to satisfying all other applicable Acts & Rules in this regard.

4. The rates of royalty, dead rent, surface rent and water charges shall be collectable as follows:

I. Rates of Royalty:

<b>LATERITE</b>	(a) Zero point five zero per cent of London Metal Exchange Aluminium metal price chargeable on the contained aluminium metal in ore produced for those dispatched for use in alumina and aluminium metal extraction.
	(b) Twenty five per cent of sale price on ad valorem basis for those dispatched for use other than alumina and aluminium metal extraction and for export.

II. Dead Rent	Rates of dead rent in rupees per hectare per annum or as revised by the Government from time to time		
From second year of lease	Third year and fourth year	Fifth year onwards	
200	500	1000	
III. Surface rent and water charges	As fixed by the Government from time to time.		

5. The grantee should execute the lease deed within the time limit specified in Rule 31 of Mineral Concession Rules, 1960.

6. The grantee should pay a deposit of Rs.10,000/- as prescribed under Rule 32 of the Mineral Concession Rules, 1960 before the lease is actually executed.

7. The terms and conditions referred to in paras 3 to 6 of this order are subject to such further modifications, additions and alterations as may be ordered before the lease deed is executed.

{contd...3}



:: 3 ::

8. The Director of Mines and Geology shall take necessary further action for the execution of the lease deed after satisfying himself that the grantee fulfils all the required provisions of the amended Act and Rules. As soon as the deed is executed, the date of such execution should be reported to the Government.

Note:-The grant is liable for cancellation, should it be found at a later date that it was grossly inequitable or was made under a mistake of fact or owing to misrepresentation or fraud or in excess of authority.

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

**SABYASACHI GHOSH**  
PRINCIPAL SECRETARY TO GOVERNMENT (FAC)

To  
M/s. Rajiv Tribal Quarry LCC Society Limited,  
Registered with R.C.No.1596/2010 C,  
President: A.Somireddy,  
Tadapalli Village, Mareduhilli Mandal,  
East Godavari District (BY RPAD)



The Director of Mines & Geology, Hyderabad (w.e. File & AMP)

Copy to:

The Zonal Joint Director of Mines & Geology, Visakhapatnam

The Assistant Director of Mines & Geology, Rajahmundry,  
East Godavari District

The District Collector, East Godavari.

The Secretary to Govt. of India, Ministry of Mines  
Department of Mines, New Delhi

The Controller General, Indian Bureau of Mines, Nagpur.

The Director General, Mines Safety, Dhanbad, Bihar.

The Regional Controller of Mines, Koti, Hyderabad.

SF/SC (C.No.10784/M.IV(2)/2013)

"Copy of this order is available on Internet and can be  
accessed at address <http://www.ap.gov.in/goir>".

//Forwarded :: By Order //

SECTION OFFICER

G.O. - cancellation  
File no:- 58467 Sec II/2011



GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY  
PROCEEDINGS OF THE ASST. DIRECTOR OF MINES AND GEOLOGY, RAJAHMUNDRY.  
(PRESENT: Sri Ch. Surya Chandra Rao, MSc(Tech.), Asst. Director)

Proceedings No.4883/M/2010

Date: 26-10-2013.

**Sub:** Mines and Minerals – Mining Lease granted in favour of M/s Rajiv Tribal Quarry Labour Contract Cooperative Society Limited, President: Sri A.Somireddy for Laterite over an extent of 40.50 Acs or 16.390 Hects in Un-Reserved Forest in Sy No. 37 ( 18.86 Acres ) and Sy No. 38 (21.64 Acres) of Maddiveedu Village H/o Tadepalli Grampanchayat, Mareduilli Mandal, East Godavari District in Agency area (Schedule area) for a period of 20 years– Mining Lease deed executed on 23.10.2013- Lease deed Registered – works order issued – Reg.

- Ref:**
- 1) G.O.Ms No.67, Indus & Comm (M.IV)Dept. Dt: 02.08.2013.
  - 2) Memo No.41805/R2-1/2013, Dt: 30.08.2013 of the Director of Mines and Geology, Hyderabad, which received this office on 15.10.2013.
  - 3) Lr.Dt.21.10.2013 of M/s Rajiv Tribal Quarry LCC Society Limited.
  - 4) Mining Lease deed executed in Form-K on 23.10.2013.
  - 5) Mining Lease deed Registered on 24.10.2013.

ORDER:

Through the reference 1<sup>st</sup> cited, the Government have granted Mining Lease for Laterite over an extent of 40.50 Acs or 16.390 Hects in Un-Reserved Forest in Sy No. 37 ( 18.86 Acres ) and Sy No. 38 (21.64 Acres) of Maddiveedu Village H/o Tadepalli Grampanchayat, Mareduilli Mandal, East Godavari District in Agency area (Schedule area) for a period of 20 years in favour of M/s Rajiv Tribal Quarry Labour Contract Cooperative Society Limited, President: Sri A.Somireddy subject to satisfaction of terms and conditions laid down in MM(D&R) Act, 1957 and Mineral Concession Rules, 1960 and also subject to the conditions in Form-K prescribed under the MC Rules, 1960 and to the additional conditions specified in appendix to this order and subject to satisfying all the applicable Acts & Rules in this regard.

Through the reference 2<sup>nd</sup> cited, the Director of Mines and Geology, Hyderabad has forwarded while enclosing the copy of the Govt. Memo for taking necessary action.

Through the reference 3<sup>rd</sup> cited, the grantee M/s Rajiv Tribal Quarry LCC Society Limited have submitted the required Documents for execution of lease deed. The said lease deed was executed on 23.10.2013 vide reference 4<sup>th</sup> cited and Registered the Mining Lease deed on 24.10.2013 in the Sub- Register office, Rajahmundry vide reference 5<sup>th</sup> cited.

In view of the above, sanction is here by accorded to M/s Rajiv Tribal Quarry LCC Society Limited, Reg with R.C No. 1596/2010C , President: Sri A.Somireddy, Tadapalli Village, Mareduilli Mandal, East Godavari District to work Mining Lease for Laterite over an extent of 40.50 Acs or 16.390 Hects in Un-Reserved Forest in Sy No. 37 ( 18.86 Acres ) and Sy No. 38 (21.64 Acres) of Maddiveedu Village H/o Tadepalli Grampanchayat, Mareduilli Mandal, East Godavari District in Agency area (Schedule area) for a period of 20 years i.e from 26.10.2013 to 22.10.2033 and subject to satisfaction of terms and conditions laid down in MM(D&R) Act, 1957 and Mineral Concession Rules, 1960 and also subject to the conditions in Form-K prescribed under the MC Rules, 1960 and to the additional conditions specified in appendix to this order and also subject to payment of Royalty as mentioned in the G.O in Para No. 4 at Table No.1 form time to time.

The grantee should maintain all the records and accounts in the form prescribed by the Government. The lessee should submit monthly returns in the form prescribed so as to reach the Director of Mines and Geology, Hyderabad, the Dy. Director of Mines and Geology, Kalanada and the Asst Director of Mines and Geology, Rajahmundry not later than the third of the succeeding months to which they relates.



Under Rule 16 of the Indian Mines Act, 1952 notice of opening of the Mine should be given to the Director of Mines Safety, Dhanbad.

Asst. Director of Mines and Geology,  
RAJAHMUNDRY  
Gandhipuram - 3,  
RAJAHMUNDRY, E. G. D.

To

✓ M/s Rajiv Tribal Quarry LCC Society Limited,  
Reg with R.C No. 1596/2010C,  
President: Sri A. Somireddy, Tadapalli Village,  
Maredumilli Mandal, East Godavari District.

- Copy submitted to the Secretary to Government of A.P. (Ind. & Comm. (M-III) Dept, Hyderabad together with a copy of the lease deed (through the DM&G, Hyderabad).
- Copy submitted to the Director of Mines and Geology, Hyderabad, together with copy of the lease deed.
- Copy submitted to the secretary to Govt. of India, Ministry of Mines Dept, Dept of Mines, New Delhi together with copy of the lease deed (through the DM&G, Hyderabad).
- Copy submitted to the controller, General, Indian Bureau of Mines, Nagpur together with the copy of Lease deed (through the DM&G, Hyderabad).
- Copy submitted to the Director General, Mines safety, Dhanbad, Jharkhand together with the copy of Lease deed (through the DM&G, Hyderabad).
- Copy submitted to the Regional controller of Mines, Knta, Hyderabad, together with copy of the lease deed (through the DM&G, Hyderabad).
- Copy submitted to the District Collector, E.G. Dist, Kakinada for favour of information.
- Copy submitted to the Zonal Joint Director of Mines and Geology, Visakhapatnam for favour of information.
- Copy submitted to the Dy. Director of Mines and Geology, Kakinada for favour of information.
- Copy to Asst. Director of Mines and Geology (Vig), Rajahmundry for information.
- Copy submitted to the District Forest Officer, (Divisional), E.G. Dist for favour of information.
- Copy submitted to the Project Officer, ITDA, Rampachodavaram for favour of information.
- Copy to the Revenue Divisional Officer, Rampachodavaram for information.
- Copy to the Thasildar, Maredumilli for information.
- Copy to the Mandal Development Officer for information.
- Copy to the Sub-Divisional Forest Officer, Rampachodavaram for information.
- Copy to the Range Officer, Sudikonda Range, Sudikonda Village for information.
- Copy to the Surpanch, Tadepalli for information.





ANDHRA PRADESH POLLUTION CONTROL BOARD  
ZONAL OFFICE :: VISAKHAPATNAM

ANNEXURE-VI

D.No.39-33-20/4/1, Madhavadhara Vuda Colony, Visakhapatnam - 530018.

e-mail: vsp.zo.jcee@pcb.ap.gov.in

Ph : 2719380

**RED CATEGORY  
CONSENT & AUTHORIZATION ORDER  
BY REGISTERED POST WITH ACKNOWLEDGEMENT DUE**

**Consent Order No:5876/APPCB/ZO-VSP/KKD/CFO/W&A/2017-<sup>1452</sup> Date:16.02.2017**

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016 & Amendments thereof and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Rajiv Tribal Quarry LCC Society Limited,  
R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V),  
Maredumilli (M), East Godavari District

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

**i) Outlets for discharge of effluents:**

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	Domestic	1.6 KLD	Septic Tank followed by soak pit

**ii) Emissions from chimneys:**

Chimney No.	Description of Chimney	Quantity of Emissions at peak flow (m <sup>3</sup> /hr)
----	----	----

**iii) HAZARDOUS WASTE AUTHORISATION (FORM - II) [See Rule 6 (2)]:**

M/s. Rajiv Tribal Quarry LCC Society Limited, R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V), Maredumilli (M), East Godavari District is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

**• HAZARDOUS WASTES WITH RECYCLING OPTION:**

Sl. No	Name of Hazardous Waste	Stream	Quantity	Method of disposal
1.	Waste Lubricating Oil from machinery and vehicles	5.1 of Schedule - 1	100 LPA	Shall be sent to authorized Re-Processors / Re-Cyclers of waste oil


This consent order is valid for the following products along with quantities indicated only:

S.No.	Products	Quantity
1.	Mining of Laterite (over an extent of 16.40 Ha.)	0.526 Million Tonnes / Annum



This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent & Hazardous Waste Authorization shall be valid for a period ending with the 30.11.2021.

  
JOINT CHIEF ENVIRONMENTAL ENGINEER  
Joint Chief Environmental Engineer  
A.P. POLLUTION CONTROL BOARD  
ZONAL OFFICE  
SATHAPATNAM

To  
M/s. Rajiv Tribal Quarry LCC Society Limited,  
R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V),  
Maredumilli (M), East Godavari District





#### **SCHEDULE - A**

1. Any up-set condition in any activity of the Mining Unit, which may result in, increased violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The Mining Unit should carryout analysis of air emissions for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
4. The Mining Unit should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
6. The Mining Unit shall file the water cess returns in Form-I as required under section (5) of Water (Prevention and Control of Pollution) Cess Act, 1977 on or before the 5th of every calendar month, showing the quantity of water consumed in the previous month along with water meter readings. The Mining Unit shall remit water cess as per the assessment orders as and when issued by Board.
7. The Mining Unit shall submit Environment statement in Form V before 30th September every year as per Rule No.14. of E(P) Rules, 1986 & amendments thereof.
8. The Mining Unit should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under NWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board. The Mining Unit should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
9. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21/22 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.

#### **SCHEDULE - B**

1. The source of water being Borewell. The following is the permitted water consumption:

Sl. No.	Purpose	Quantity
1	Dust suppression (For Sprinkling)	8.0 KLD
2	Domestic	2.0 KLD
	<b>Total</b>	<b>10.0 KLD</b>

Separate meters with necessary pipe-line shall be maintained for assessing the quantity of water used for each of the purposes mentioned above for Cess assessment purpose.

2. The Mining Unit shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10 $\mu$ m) - 100  $\mu$ g/ m<sup>3</sup>; PM2.5 (Particulate Matter size less than



2.5 µm) - 60 µg/ m<sup>3</sup>; SO<sub>2</sub>- 80 µg/m<sup>3</sup>; NO<sub>x</sub> - 80 µg/m<sup>3</sup>, at the periphery of the Mining Unit.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009.

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)  
Night time (10 PM to 6 AM) - 70 dB (A)

3. The Mining Unit shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.
4. The Mining Unit shall maintain the following records and the same shall be made available to the inspecting officers of the Board.
  - a. Daily production details
  - b. Log Books for pollution control systems.
  - c. Solid waste generated and disposed.
  - d. Inspection book.
5. The Mining Unit shall dispose solid waste as follows:

S. No.	Name of the Solid Waste	Quantity	Disposal
1	OB Soil	0.0267 Million Tonnes / Annum	Shall be stored in the earmarked mine area as per the approved mine plan.

6. The Mining Unit shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CFE/CFO of the Board.
7. The industry shall scrupulously comply with conditions stipulated by the SEIAA, Andhra Pradesh, Govt. of India, MoEF, Hyderabad in the Environmental Clearance order dated: 02.05.2013.
8. The Mining Unit shall not cause ground water pollution in and around the Mining Unit premises.
9. All the waste material should be accommodated within the Mining Lease Area.
10. All mining products and rejects, irrespective of size and quality, should be hauled away from the mine.
11. Dumping of overburden, if done, should use the retreating pyramid bench formation with concurrent, physical and biological reclamation. Dumps should be contoured and provided with relief control and stabilized. Dump tops should be compacted, leveled and be properly drained.
12. Suitable tree species should be planted on either side of the haul roads.
13. Drills should be water-jacketed. Local exhaust ventilation systems should be installed at dust generation points and the dust is led to a dust collection system.
14. The Mining Unit shall provide water sprinklers for wetting the roads and at dust generating sources to control fugitive dust emissions.
15. Greenbelt shall be developed at possible areas around the boundary.
16. The mine rejects shall be dumped in the earmarked area as per the mining plan.
17. Fugitive emissions from all the sources shall be controlled regularly.
18. The Mining Unit shall establish two Ambient Air Quality monitoring station and monitor the critical parameters maintained in Schedule - 'B' as per CPCB guidelines and shall submit monthly reports to Regional Office and Zonal Office regularly.
19. Mining shall be carried out as per approved Mining plan.




20. The Mining Unit shall submit a compliance report on CFO conditions for every 6 months as on 01<sup>st</sup> January and 01<sup>st</sup> July of every year at Regional Office and Zonal Office.

**SCHEDULE - C**

**[See Rule 6 (2)]**

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR HANDLING  
HAZARDOUS WASTES]**

1. All the rules and regulations notified by Ministry of Environment and Forests, Government of India under the E(P) Act, 1986 in respect of management, handling, transportation and storage of the Hazardous wastes should be followed.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
3. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
4. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
5. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 20(2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

  
**JOINT CHIEF ENVIRONMENTAL ENGINEER**  
Joint Chief Environmental Engineer  
A.P. POLLUTION CONTROL BOARD  
ZONAL OFFICE  
VISAKHAPATNAM

To  
M/s. Rajiv Tribal Quarry LCC Society Limited,  
R.Sy.No.37 & 38, Maddiveedu H/o Tadepalli Gram Panchayath (V),  
Maredumilli (M), East Godavari District



From

Sri E.Narasimha Reddy, M.Sc.,  
Deputy Director of Mines and Geology,  
2<sup>nd</sup> Floor, Viswa House,  
Pallamraju Nagar,  
Kakinada- 533003.

To

M/s Rajiv Tribal Quarry LCC Society Limited,  
President: Sri A.Somi Reddy,  
Tadepalli Village,  
Maredumilli Mandal,  
East Godavari District.

**Letter No.3498/Laterite/2022,Dated:11.10.2022.**

Sir,

Sub:- Mines & Quarries - Scheme of Mining Plan for Laterite over an extent of Hect 16.782 (as per DGPS sketch approved by the ADM&G, Rajamahendravaram) In Compartment No 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division in favour M/s Rajiv Tribal Quarry LCC Society Limited., Rep. by President: Sri A.Somi Reddy for the year ensuring balance period i.e.,(2022-2023)- Approval of Scheme of Mining Plan including Progressive mine closure Plan - Reg.

Ref:-

1. Letter dt.21.09.2022 along with draft Scheme of Mining Plan prepared by the RQP Sri V.T.Chander.
2. This office Letter No. 3498/Laterite/2022, Dated:-29.09.2022, addressed to the RQP.
3. Letter dt.07.10.2022 from the RQP along with Eight sets of fair Mining Plans.
4. Proce.No.28594/P.RQP/01, Dt.13.05.2016 of the Director of Mines and Geology, Hyderabad.

\*\*\*\*\*

Attention to the subject and references cited, through the reference 1<sup>st</sup> cited M/s Rajiv Tribal Quarry LCC Society Limited., Rep. by President: Sri A.Somi Reddy has submitted draft Scheme of Mining Plan to this office prepared by RQP.

After verification of the draft Mining Plan this office vide reference 2<sup>nd</sup> cited, requested the RQP to rectify the lapses/omissions in draft Mining plan as pointed and submit 08 sets of fair Mining Plans. Accordingly, the RQP vide reference 3<sup>rd</sup> cited has submitted the 08 sets of fair Mining Plans duly rectified the lapses/omissions as pointed in Draft Mining Plan.

In exercise of the powers conferred by the Director of Mines and Geology, Andhra Pradesh, Hyderabad through the reference 4<sup>th</sup> cited, I hereby approve the Scheme of Mining Plan including Progressive mine closure Plan for Laterite over an extent of Hect 16.782 (as per DGPS sketch approved by the ADM&G, Rajamahendravaram) In Compartment No 750 of Tadepalli Protected Forest, D. Velamalakota Beat, Seethapalli Section, Sudikonda Range, Kakinada Division for the year 2022-2023 In favour of M/s Rajiv Tribal Quarry LCC Society Limited., Rep. by President: Sri A.Somi Reddy subject to the following conditions:

1. This Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to time whether made by the Central Government, State Government or any other authority or any order / direction from any court of competent jurisdiction.
2. The approval of the aforesaid Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Regulation and Development) Act 1957 or the A.P. Minor Mineral Concession Rules 1966, or the other Rules framed there under and any other laws including the Forest Conservation Act, 1980, Forest conservation Rules, 2003 and also other relevant status, orders, guidelines as the case may be applicable from time to time.
3. The Mining Plan is approved subject to strictly adhering to the APMMC Rules, 1966 Relevant Regulations and Rules of Metalliferrous Mines Regulations, 1961, provisions of the Mines Act, 1952 and other Rules and Regulations made there under.
4. Prior permission from the Director General, Mines Safety shall be obtained whenever and where ever it is required.

(P.T.O)



5. Clearance / Consent / No objection from Ministry of Environment and Forest, Central pollution control Board, State pollution Control Board as applicable in this case should be obtained and a copy of the same should be submitted to this office.
6. The execution of approved Plan of Mining Plan shall be subject to vacation of prohibitory order / notices if any issued by competent authority.
7. The Mining Plan approval is for proposals contained therein and as applicable for the mining activities to be carried out for the Year 2022-2023 for the Mining lease granted(Lapsed period 2018-19 to 2021-22)
8. If anything found to be concealed as required by the Acts and Rules pertaining to quarrying in the contents of approved mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document is found to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.
9. The Scheme of Mining is valued subject to Construction of permanent boundary Pillars as per DGPS Sketch approved by the Assistant Director Mines & Geology, Rajamahendravaram and submit the photographs to the ADM&G, Rajamahendravaram before commencement of the quarry operations.
10. The lessee has directed to submit the fresh chemical Analysis reports to the ADM&G, Rajamahendravaram before commencement of the quarry operations.

Encl: A.M.P.

Yours faithfully,

  
S. Nagarajulu Reddy  
Deputy Director of Mines and Geology,  
Kakinada.

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

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

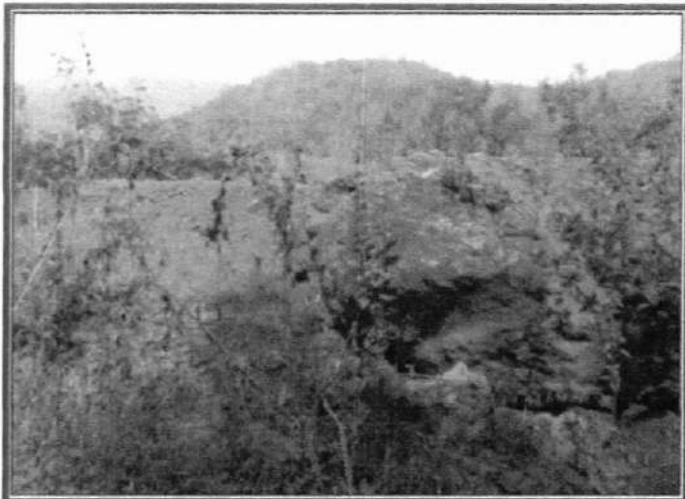
Copy submitted to the Member Secretary, State Environmental Impact Assessment Authority, Visakhapatnam along with approved Mining Plan for information.

Copy to Sri V.T.Chander, RQP,RQP/DMG/AP/01/2022, H.No.10-1, Flat

No.202,MahalaxmiGanapathi Complex,KPHB-13<sup>th</sup> Phase, Hitch City- JNTU-Road, Hyderabad-500072.

Copy to the Asst. Director of Mines and Geology, Rajamahendravaram along with A.M.P. with a direction to obtain Bank Guarantee as Financial Assurance as per APMSC Rules 1966, obtain environmental clearance as per the procedure mentioned in the Notification S.O.N141(E), Dt.15.01.2016 of the Ministry of Environment and Forest and Climate Change from the applicant.





PHOTOGRAPHS  
SHOWING VIEW  
OF THE EXPOSED  
LATERITE  
DURING  
DEVELOPMENT  
OF ROAD

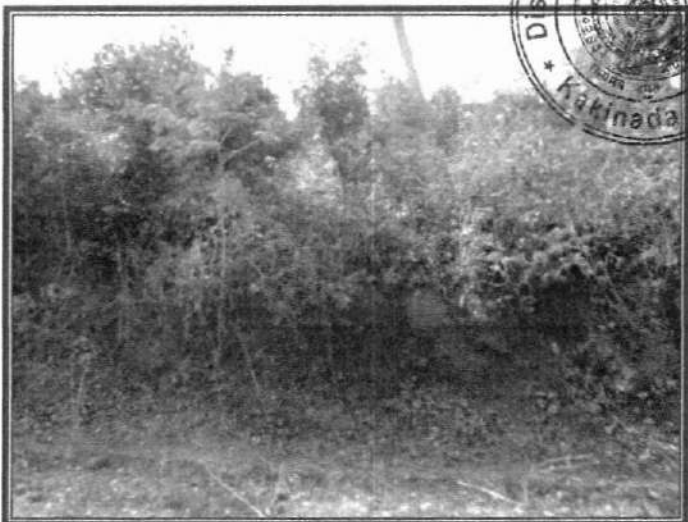


PHOTOGRAPH  
SHOWING VIEW  
OF THE  
LATERITE  
CAPPING OVER  
THE  
KHONDALITE  
ROCK AND IN  
THE JOINTS





**PHOTOGRAPH  
SHOWING VIEW  
OF THE  
KHONDALITE  
HOST ROCK**

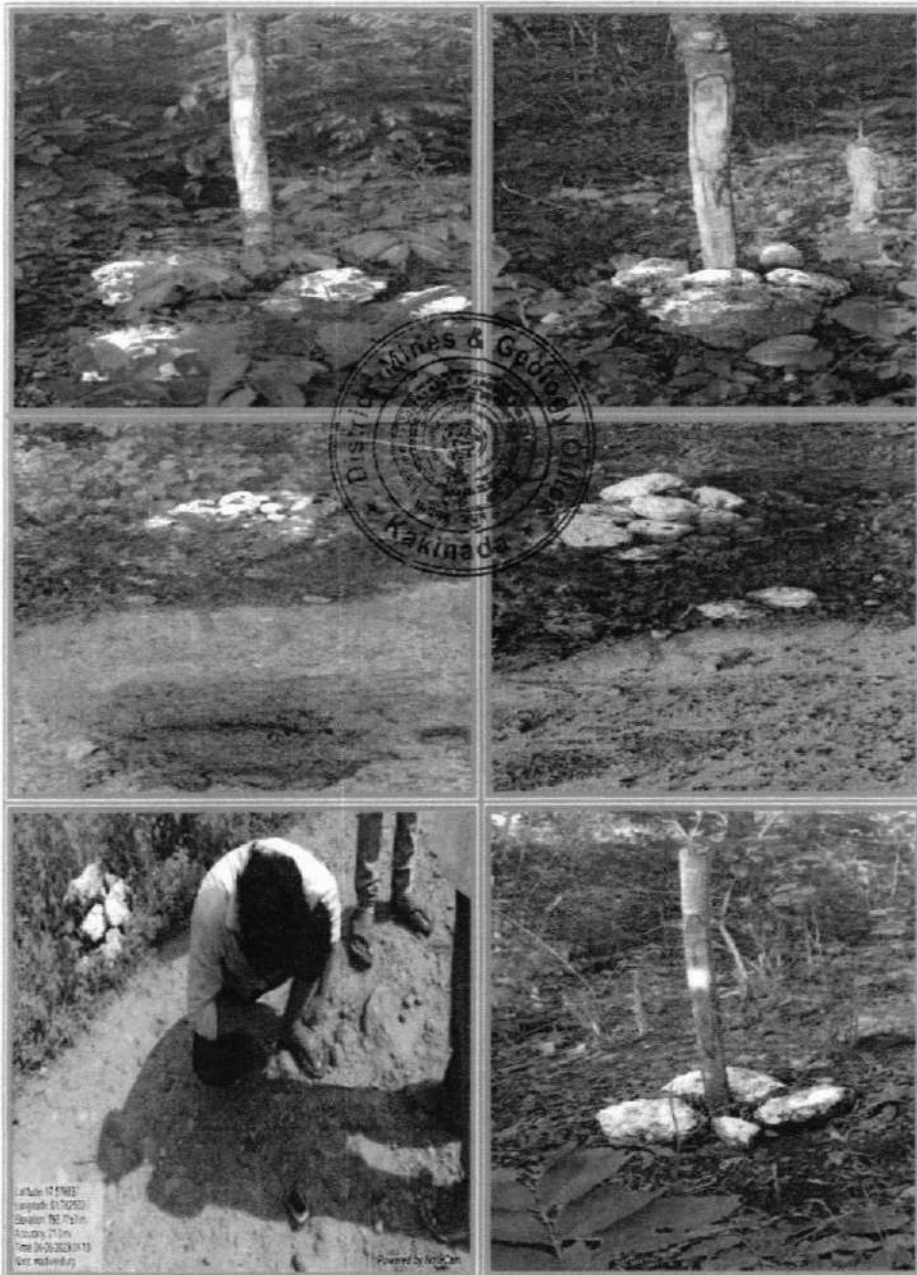


**PHOTOGRAPHS  
SHOWING VIEW  
OF THE  
KHONDALITE  
HOST ROCK &  
LATERITE  
ENCrustATIONS  
IN THE JOINTS  
OF KHONDALITE**





PHOTOGRAPHS SHOWING VIEW OF THE BOUNDARY POINTS / PILLARS  
ERECTED AND MARKED





**GOVERNMENT OF ANDHRA PRADESH,  
DEPARTMENT OF MINES & GEOLOGY, CHEMICAL LABORATORY,  
HYDERABAD**

A.R.No:25/12

Dt: 26-03-2012

- |                                |  |
|--------------------------------|--|
| 1. Name of the Sample          | : Referred as Laterite.  |
| 2. Received From               | : The ADM & Rajahmundry.   |
| 3. Locality                    | : Sy No: 37 & 38 of Maddiveedu (V),<br>Maredumilli (M), E.O. (Dist). |
| Applicant                      | : Rajiv Tribal Quarry & CC Society Ltd.                              |
| 4. Extent                      | : 40.50 Acres  |
| 5. Number of Samples submitted | : 12   |
| 6. Reference                   | : Lr.No:4883/M/2010, Dt:09.03.2012<br>Received on: 13-03-2012.       |

Analysis on the samples as Received

S. No	P.R.No	Sample Particulars	L.O.I %	Silica as SiO <sub>2</sub> %	Iron as Fe <sub>2</sub> O <sub>3</sub> %	Al as Al <sub>2</sub> O <sub>3</sub> %	Ca as CaO %	Mg as MgO %
1	901-1	No:1	12.24	41.36	15.90	28.15	0.56	0.30
2	901-2	2	13.71	37.62	18.80	27.13	0.84	0.40
3	901-3	3	12.07	39.65	18.75	27.75	0.56	0.20
4	901-4	4	13.08	39.35	15.60	29.17	0.84	0.20
5	901-5	5	12.42	37.61	19.95	28.15	0.56	0.30
6	901-6	6	12.50	37.90	21.00	26.83	0.56	0.20
7	901-7	7	13.88	36.33	18.65	29.07	0.84	0.20
8	901-8	8	12.99	39.02	17.85	28.25	0.56	0.30
9	901-9	9	12.44	39.69	15.95	29.89	0.70	0.20
10	901-10	10	13.40	38.74	17.70	26.72	0.56	0.30
11	901-11	11	12.29	40.31	14.15	31.21	0.84	0.20
12	901-12	12	12.28	38.26	19.50	27.95	0.70	0.30

*[Signature]*  
By: Director (C) FAC

To

- The Assistant. Director of Mines & Geology, Rajahmundry.
- Copy to the Director of Mines & Geology, Hyderabad.
- Copy to Zonal Joint Director of Mines and Geology, Visakhapatnam.
- Copy to Dy. Director of Mines and Geology, Kakinada.
- Copy to R<sub>2</sub> section.





GOVERNMENT OF INDIA  
GEOLOGICAL SURVEY OF INDIA

Sender: K.N.REDDY,  
DIRECTOR,  
MCPI, SU:AP  
GSI, BANDLAGUDA,  
HYDERABAD.

Locality: Rajeev Tribal Labour Quarry Contract, CO-Operative Society  
Maddiveedu, Tadepalli village, Maredumilli Mandal, East Godavari District.

WET CHEMICAL ANALYSIS REPORT

S.No	Ref.No	Sample No	SiO <sub>2</sub> (%)	Fe <sub>2</sub> O <sub>3</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	CaO(%)	MgO(%)	LOI(%)	Fe <sub>2</sub> O <sub>3</sub> / Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub> / Al <sub>2</sub> O <sub>3</sub>
1	1	PR-7275-01	36.14	19.55	28.12	0.54	0.36	12.33	0.695	1.285
2	2	PR-7275-02	37.32	18.96	27.03	0.90	0.40	12.39	0.701	1.380
3	3	PR-7275-03	38.48	19.36	27.52	0.72	0.51	11.41	0.703	1.398
4	4	PR-7275-04	36.93	19.16	28.11	0.72	0.34	13.26	0.681	1.313
5	5	PR-7275-05	36.38	19.76	26.27	0.54	0.38	12.73	0.752	1.384
6	6	PR-7275-06	37.42	20.33	27.18	0.56	0.38	12.01	0.747	1.376
7	7	PR-7275-07	38.78	19.94	26.42	0.86	0.40	11.40	0.754	1.467
8	8	PR-7275-08	39.49	20.94	25.82	0.72	0.46	11.94	0.810	1.529
9	9	PR-7275-09	38.08	19.55	26.42	0.60	0.34	12.33	0.739	1.441
10	10	PR-7275-10	38.93	19.74	26.52	0.74	0.38	12.07	0.744	1.467

Note: The above results clearly indicate that the ore is **Laterite** only but not Bauxite as Al<sub>2</sub>O<sub>3</sub> percentage is less than 30



**K.N. REDDY**  
Director  
(K.N. REDDY) - I  
Director  
State of Andhra Pradesh  
Geological Survey of India  
SR, Hyderabad - 500 068





GOVERNMENT OF ANDHRA PRADESH  
DEPARTMENT OF MINES AND GEOLOGY

CERTIFICATE OF REGISTRATION  
AS QUALIFIED PERSON TO PREPARE MINING PLAN

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

\*\*\*\*\*

*Sri V.T.Chander, S/o. Late V.Ramkishan Rao, H.No.10-1, Flat No:202, Mahalakshmi Ganapathi Complex, Sai Baba Temple Line, Opp. Bangalore Bengar Bakery, P&T Colony, Dilsukhnagar, Hyderabad-500060. Whose photograph is affixed herein above, having given evidence of his qualification and experience is hereby granted recognition under Rule 14(3) of Granite Conservation & Development Rules, 1999 as Qualified Person to prepare Mining Plans/ Schemes under Rule 7(A)(ii) of AP Minor Mineral Concession Rules, 1966, under Rule 13 of Granite Conservation & Development Rules, 1999 & under Rule 13 of Marble Conservation and Development Rules, 2002.*

Registration Number is :

**RQP/DMG/AP/01/2022**

*This Renewal Recognition is valid for a period of 10 years with effect from 01.05.2022 and valid upto 30.04.2032.*

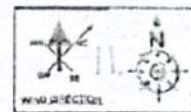
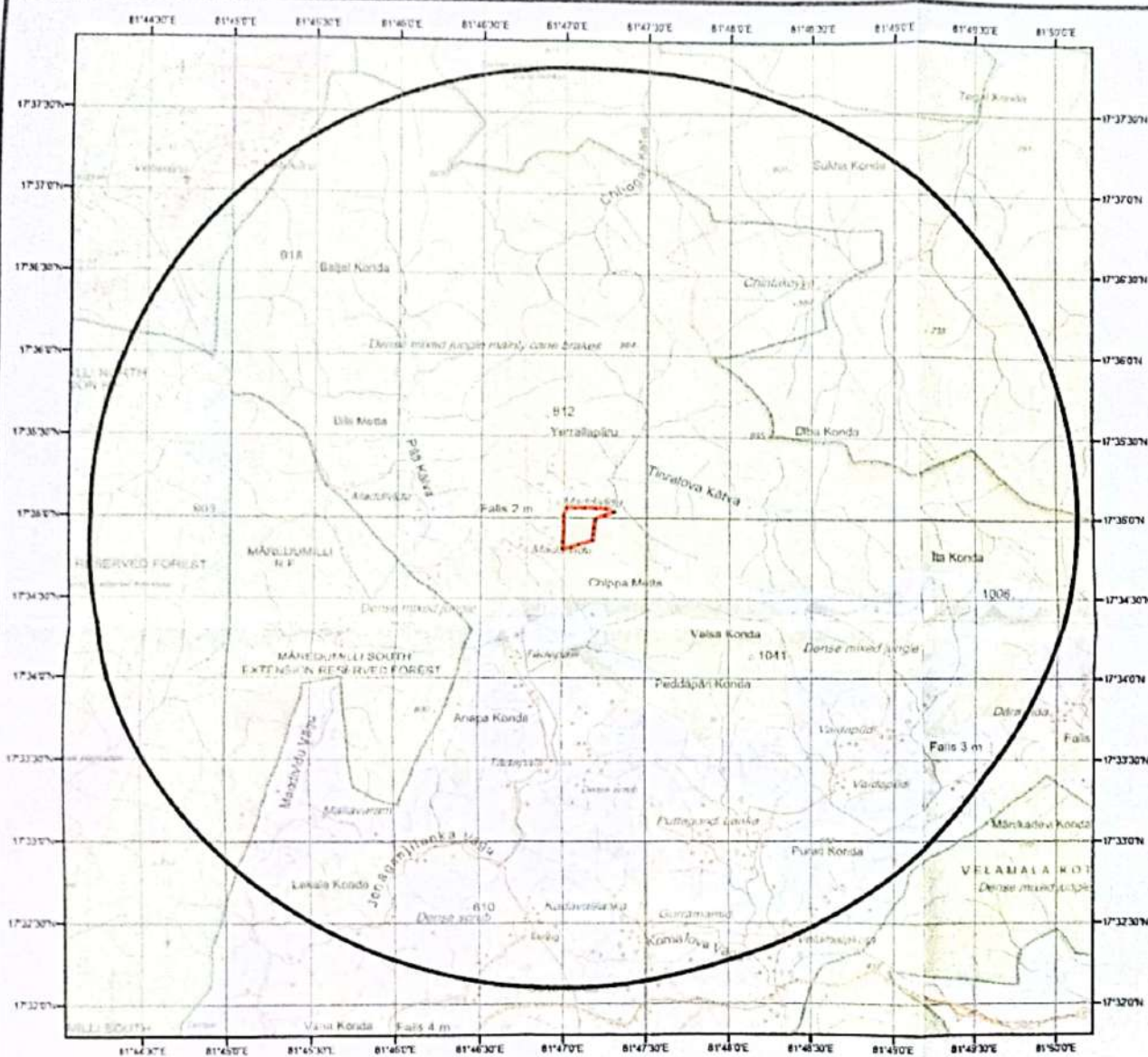
*This certificate will liable to be withdrawn/cancelled in the event of furnishing the wrong information /documents in the Mining Plan submitted by him.*

Place: Ibrahimpattanam

Date : 19.04.2022

*[Signature]*  
Director of Mines & Geology  
Director of Mines & Geology  
Department of Mines & Geology  
Govt. of Andhra Pradesh  
Ibrahimpattanam-521456  
VIJAYAWADA, A.P.














**PLATE - I KEY CUM LOCATION MAP**  
**FOR**  
**LATERITE**  
 Over an extent of 16.39 Hectares in Comp. No. 750  
 of Tadepalli Protected Forest, D. Velamalakota Beat,  
 Foulkspeta Range, Rampachodavaram Division  
 Andhra Pradesh State  
 Toposheet No. 65 G / 14 Scale 1 : 50,000

MAP DATUM : WGS - 84	
Position Format	Utm - mm - ss ss ss
Map Datum	WGS - 84
Units	Metric
North Reference	True North



LEGEND		
	STREAM	 FOREST AREA
	TANK	 HILLS
	RIVER	 ROAD
		 METAL ROAD
		 LOCATION OF AREA
		 VILLAGE

POINT ID	N.LATITUDE	E.LONGITUDE
M1	N 17° 34' 48.38724"	E 81° 46' 55.53286"
M2	N 17° 34' 50.87388"	E 81° 46' 56.72790"
M3	N 17° 34' 54.76770"	E 81° 46' 58.88660"
M4	N 17° 34' 58.62996"	E 81° 46' 58.92166"
M5	N 17° 34' 59.89168"	E 81° 46' 58.98336"
M6	N 17° 34' 59.71367"	E 81° 47' 01.18066"
M7	N 17° 35' 03.62649"	E 81° 47' 04.06837"
M8	N 17° 34' 53.81398"	E 81° 47' 07.06248"
M9	N 17° 35' 03.41368"	E 81° 47' 11.43263"
M10	N 17° 34' 53.28643"	E 81° 47' 16.31869"

M11	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M12	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M13	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M14	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M15	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M16	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M17	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M18	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M19	N 17° 34' 52.36197"	E 81° 47' 16.31869"
M20	N 17° 34' 52.36197"	E 81° 47' 16.31869"

\*The Plans and Sections are prepared  
 based on lease map authenticated  
 by the State Government  
 CORRECTNESS CERTIFIED

*(Signature)*  
 V.T. CHANDER  
 RQP/DMG/AP/01/2022

RQP  
 (V.T. CHANDER)  
 (RQP/DMG/AP/01/2022)

RAJIV TRIBAL QUARRY LABOUR  
 CONTRACT CO-OP. SOCIETY LTD.  
*A. Sorei Rocky*  
 LESSEE  
 M/s RAJIV TRIBAL QUARRY  
 LCC SOCIETY LIMITED



# Map Showing the Diversion of Forest Land for Quarry Lease for Laterite in Compartment.no.750 of Tadepalli PF of D.Velamalakota Beatof Foulkspeta Range and Rampachodavaram Division in Favour of Rajiv Tribal Quarty LCC Society Ltd



SCALE 1:4000

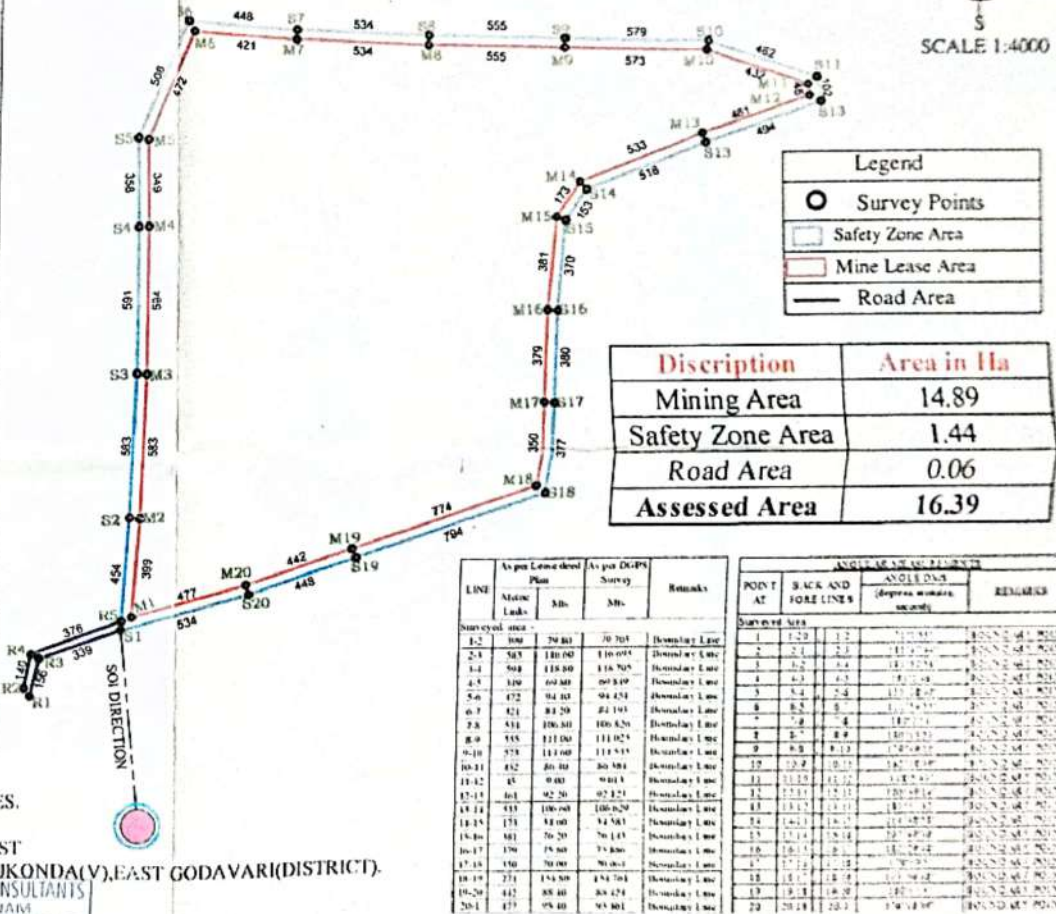
DGPS COORDINATES WGS - 84, ZONE 44Q					
UTM COORDINATES			Decimal Degrees		
POINT ID	EASTING	NORTHING	EASTING	NORTHING	REMARKS
M1	583105.126	1910002.145	583105.126	1910002.145	MINI BOUNDARY
M2	583113.517	1910002.365	583113.517	1910002.365	MINI BOUNDARY
M3	583117.832	1910006.981	583117.832	1910006.981	MINI BOUNDARY
M4	583118.282	1910215.683	583118.282	1910215.683	MINI BOUNDARY
M5	583117.308	1910257.197	583117.308	1910257.197	MINI BOUNDARY
M6	583144.041	1910171.085	583144.041	1910171.085	MINI BOUNDARY
M7	583236.701	1910137.686	583236.701	1910137.686	MINI BOUNDARY
M8	583347.968	1910261.732	583347.968	1910261.732	MINI BOUNDARY
M9	583406.982	1910166.109	583406.982	1910166.109	MINI BOUNDARY
M10	583511.806	1910163.017	583511.806	1910163.017	MINI BOUNDARY
M11	583510.023	1910134.609	583510.023	1910134.609	MINI BOUNDARY
M12	583604.144	1910125.605	583604.144	1910125.605	MINI BOUNDARY
M13	583617.614	1910124.905	583617.614	1910124.905	MINI BOUNDARY
M14	583608.964	1910125.852	583608.964	1910125.852	MINI BOUNDARY
M15	583616.210	1910127.080	583616.210	1910127.080	MINI BOUNDARY
M16	583441.420	1910151.110	583441.420	1910151.110	MINI BOUNDARY
M17	583406.952	1910175.553	583406.952	1910175.553	MINI BOUNDARY
M18	583430.541	1910009.800	583430.541	1910009.800	MINI BOUNDARY
M19	583284.013	1910196.096	583284.013	1910196.096	MINI BOUNDARY
M20	583290.005	1910227.062	583290.005	1910227.062	MINI BOUNDARY

DGPS COORDINATES WGS - 84, ZONE 44Q					
UTM COORDINATES			Decimal Degrees		
POINT ID	EASTING	NORTHING	EASTING	NORTHING	REMARKS
S1	583608.962	1910105.261	583608.962	1910105.261	SAFETY ZONE
S2	583105.126	1910002.145	583105.126	1910002.145	SAFETY ZONE
S3	583110.113	1910009.187	583110.113	1910009.187	SAFETY ZONE
S4	583110.284	1910127.683	583110.284	1910127.683	SAFETY ZONE
S5	583109.317	1910120.221	583109.317	1910120.221	SAFETY ZONE
S6	583109.957	1910182.119	583109.957	1910182.119	SAFETY ZONE
S7	583210.153	1910179.055	583210.153	1910179.055	SAFETY ZONE
S8	583406.258	1910176.265	583406.258	1910176.265	SAFETY ZONE
S9	583417.119	1910171.055	583417.119	1910171.055	SAFETY ZONE
S10	583472.871	1910170.636	583472.871	1910170.636	SAFETY ZONE
S11	583600.189	1910130.648	583600.189	1910130.648	SAFETY ZONE
S12	583605.396	1910120.475	583605.396	1910120.475	SAFETY ZONE
S13	583616.271	1910127.323	583616.271	1910127.323	SAFETY ZONE
S14	583471.654	1910129.765	583471.654	1910129.765	SAFETY ZONE
S15	583616.900	1910122.430	583616.900	1910122.430	SAFETY ZONE
S16	583410.301	1910114.591	583410.301	1910114.591	SAFETY ZONE
S17	583441.912	1910107.014	583441.912	1910107.014	SAFETY ZONE
S18	583455.018	1910099.923	583455.018	1910099.923	SAFETY ZONE
S19	583287.008	1910191.926	583287.008	1910191.926	SAFETY ZONE
S20	583202.712	1910202.011	583202.712	1910202.011	SAFETY ZONE

DGPS COORDINATES WGS - 84, ZONE 44Q					
UTM COORDINATES			Decimal Degrees		
POINT ID	EASTING	NORTHING	EASTING	NORTHING	REMARKS
R1	583210.150	1910118.888	583210.150	1910118.888	ROAD BOUNDARY
R2	583210.150	1910118.888	583210.150	1910118.888	ROAD BOUNDARY
R3	583210.150	1910118.888	583210.150	1910118.888	ROAD BOUNDARY
R4	583210.150	1910118.888	583210.150	1910118.888	ROAD BOUNDARY
R5	583210.150	1910118.888	583210.150	1910118.888	ROAD BOUNDARY

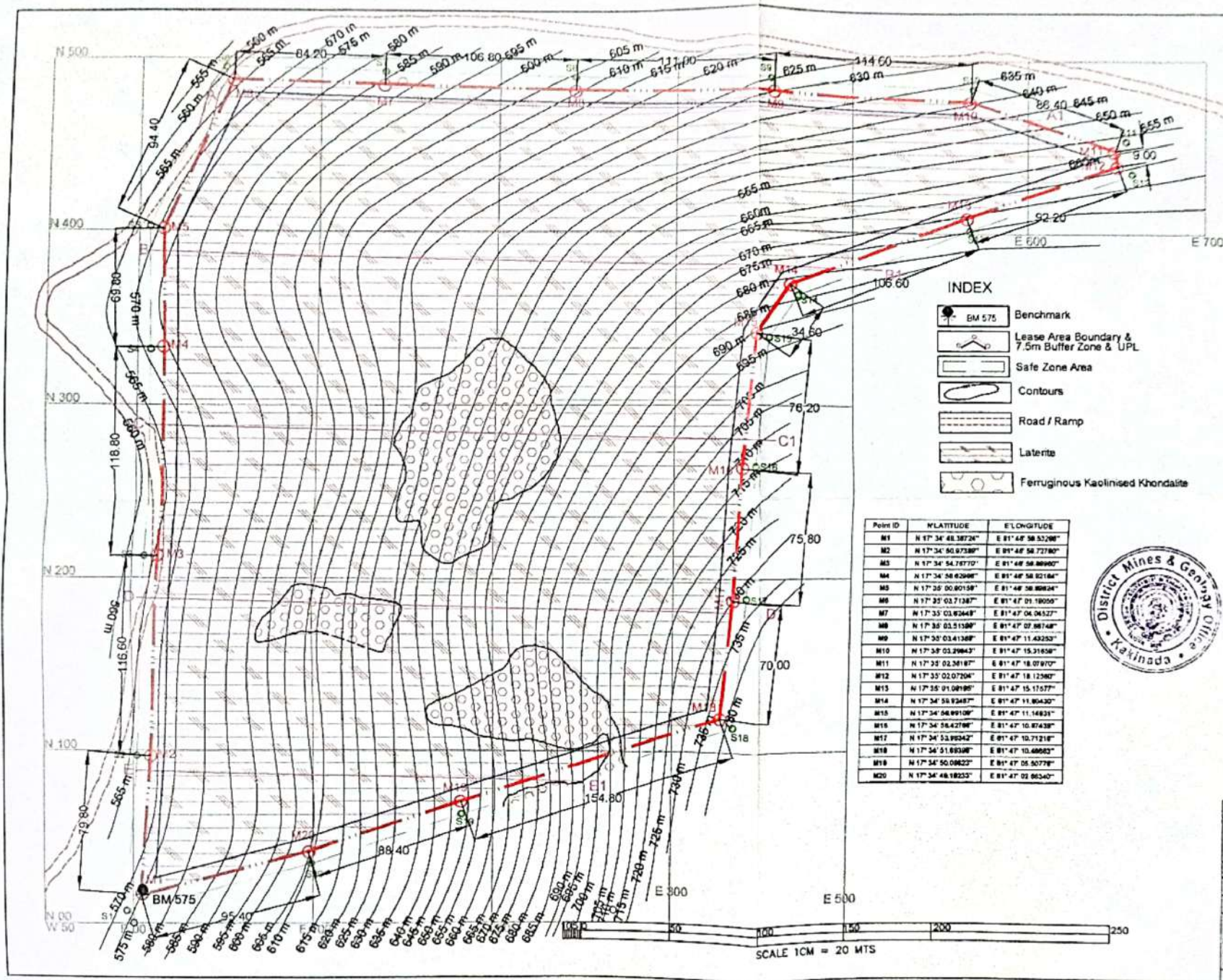


NOTE :-  
 1. THE TRUE NORTH IS ADOPTED BOTH SURVEYED PLAN & DGPS COORDINATES.  
 2. THE GIVEN MEASUREMENTS ARE IN METRIC LINKS.  
 3. THE DGPS SURVEY FOR THE AREA IS TAKEN UP BY SYNCHRONIZING NEAREST SURVEY OF INDIA GROUND CONTROL POINT AT NEAR M.P.D.O OFFICE, KORUKONDA(V), EAST GODAVARI(DISTRICT).  
 SOI UTM CO-ORDINATES E- 587606.190, N-1897727.982, Height: 31.619 Meters & CONSULTANTS VINAYAKAPATNAM

APPROVED BY  
 RAJIV TRIBAL QUARRY LABOUR CONTRACTED BY SOCIETY LTD  
 A. Suresh Reddy  
 President  
 EMPANELLED AGENCY  
 This Mining Plan is Approved subject to the conditions stipulated indicated in the Mining Plan Approval Letter No. 740/2022 dated 20.10.2022

APPROVED  
 E. Narasimha Reddy  
 District Mines & Geology Officer  
 Kakinada, Kakinada District  
 FOREST RANGE OFFICER  
 Foulkspeta  
 Based on lease map authorized by the State Government  
 (V. CHANDER)  
 ROP/DMG/AP/01/2022





# INDEX

- BM 575 Benchmark
- Lease Area Boundary & 7.5m Buffer Zone & UPL
- Safe Zone Area
- Contours
- Road / Ramp
- Laterite
- Ferruginous Kaolinised Khondalite

Point ID	N.LATITUDE	E.LONGITUDE
M1	N 17° 34' 48.38724"	E 81° 47' 58.52268"
M2	N 17° 34' 50.97398"	E 81° 48' 58.77790"
M3	N 17° 34' 54.78710"	E 81° 48' 58.88980"
M4	N 17° 34' 58.62508"	E 81° 48' 58.92164"
M5	N 17° 35' 00.80158"	E 81° 48' 58.98824"
M6	N 17° 35' 03.71387"	E 81° 47' 01.18059"
M7	N 17° 35' 03.82648"	E 81° 47' 04.04527"
M8	N 17° 35' 03.51589"	E 81° 47' 02.86748"
M9	N 17° 35' 03.61388"	E 81° 47' 11.43253"
M10	N 17° 35' 03.29843"	E 81° 47' 15.31858"
M11	N 17° 35' 02.38187"	E 81° 47' 18.07970"
M12	N 17° 35' 02.07204"	E 81° 47' 18.12580"
M13	N 17° 35' 01.08180"	E 81° 47' 15.17577"
M14	N 17° 34' 58.93487"	E 81° 47' 11.85430"
M15	N 17° 34' 58.89109"	E 81° 47' 11.14831"
M16	N 17° 34' 58.42786"	E 81° 47' 10.87438"
M17	N 17° 34' 53.95242"	E 81° 47' 10.75218"
M18	N 17° 34' 51.83388"	E 81° 47' 10.68883"
M19	N 17° 34' 50.08823"	E 81° 47' 05.50778"
M20	N 17° 34' 48.18235"	E 81° 47' 02.86340"

S1	N 17° 34' 48.54411"	E 81° 48' 58.24555"
S2	N 17° 34' 50.99273"	E 81° 48' 58.88825"
S3	N 17° 34' 54.78622"	E 81° 48' 58.88248"
S4	N 17° 34' 58.63112"	E 81° 48' 58.88571"
S5	N 17° 35' 00.84588"	E 81° 48' 58.82738"
S6	N 17° 35' 03.88247"	E 81° 47' 01.51912"
S7	N 17° 35' 03.88368"	E 81° 47' 04.26419"
S8	N 17° 35' 03.77827"	E 81° 47' 07.87888"
S9	N 17° 35' 03.87214"	E 81° 47' 11.43832"
S10	N 17° 35' 03.84643"	E 81° 47' 15.38475"
S11	N 17° 35' 02.56882"	E 81° 47' 18.32252"
S12	N 17° 35' 01.90368"	E 81° 47' 18.42848"
S13	N 17° 35' 00.83488"	E 81° 47' 18.26471"
S14	N 17° 34' 58.82584"	E 81° 47' 11.38175"
S15	N 17° 34' 58.90713"	E 81° 47' 11.38828"
S16	N 17° 34' 58.40808"	E 81° 47' 11.14488"
S17	N 17° 34' 53.84383"	E 81° 47' 10.88214"
S18	N 17° 34' 51.82148"	E 81° 47' 10.73870"
S19	N 17° 34' 48.88248"	E 81° 47' 05.82758"
S20	N 17° 34' 48.83318"	E 81° 47' 02.74418"

RAJIV TRIBAL QUARRY LABOUR  
CONTRACT CO-OP SOCIETY LTD.  
LESSEE  
PRESIDENT

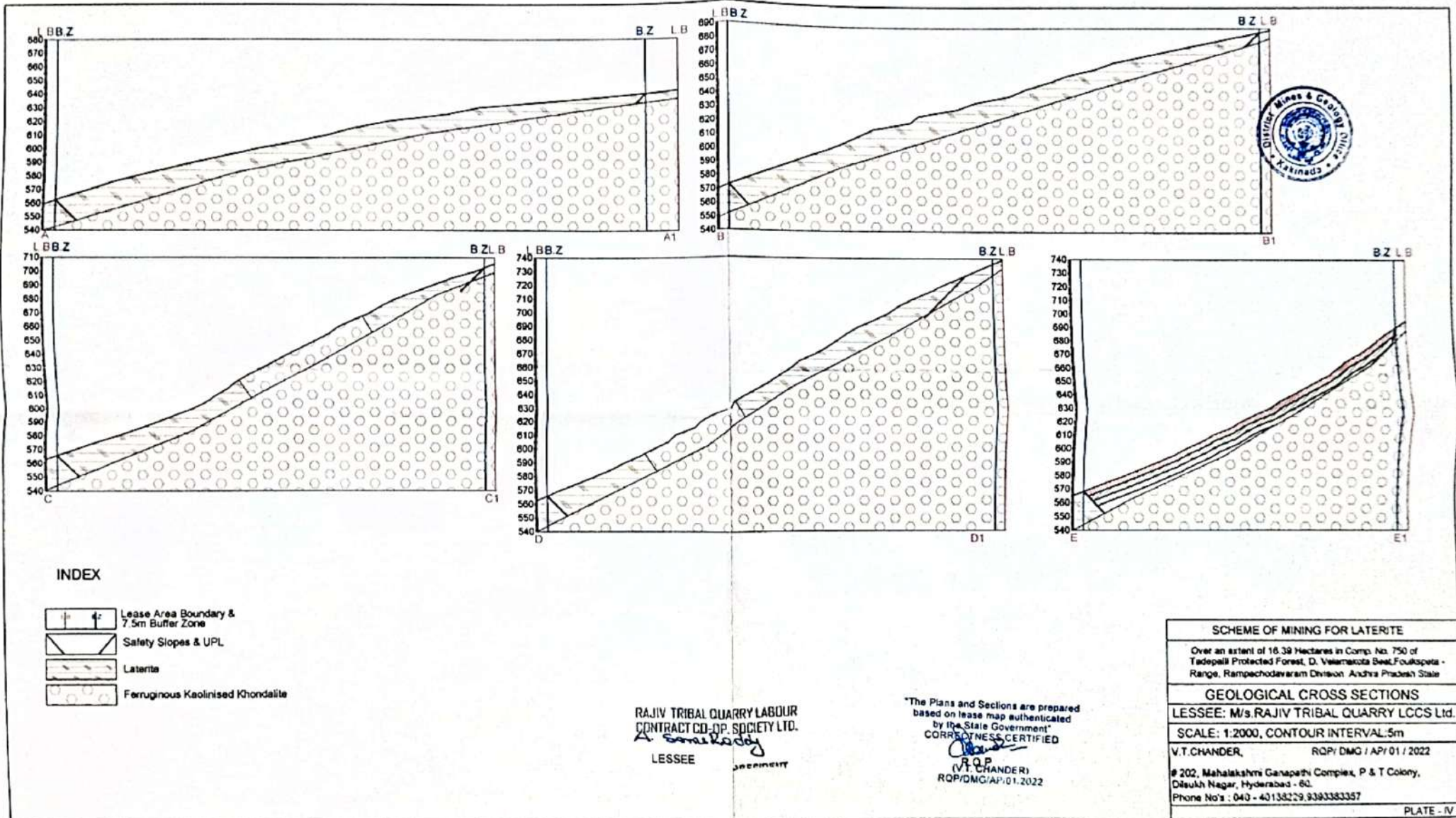


"The Plans and Sections are prepared  
based on lease map authenticated  
by the State Government"  
CORRECTNESS CERTIFIED

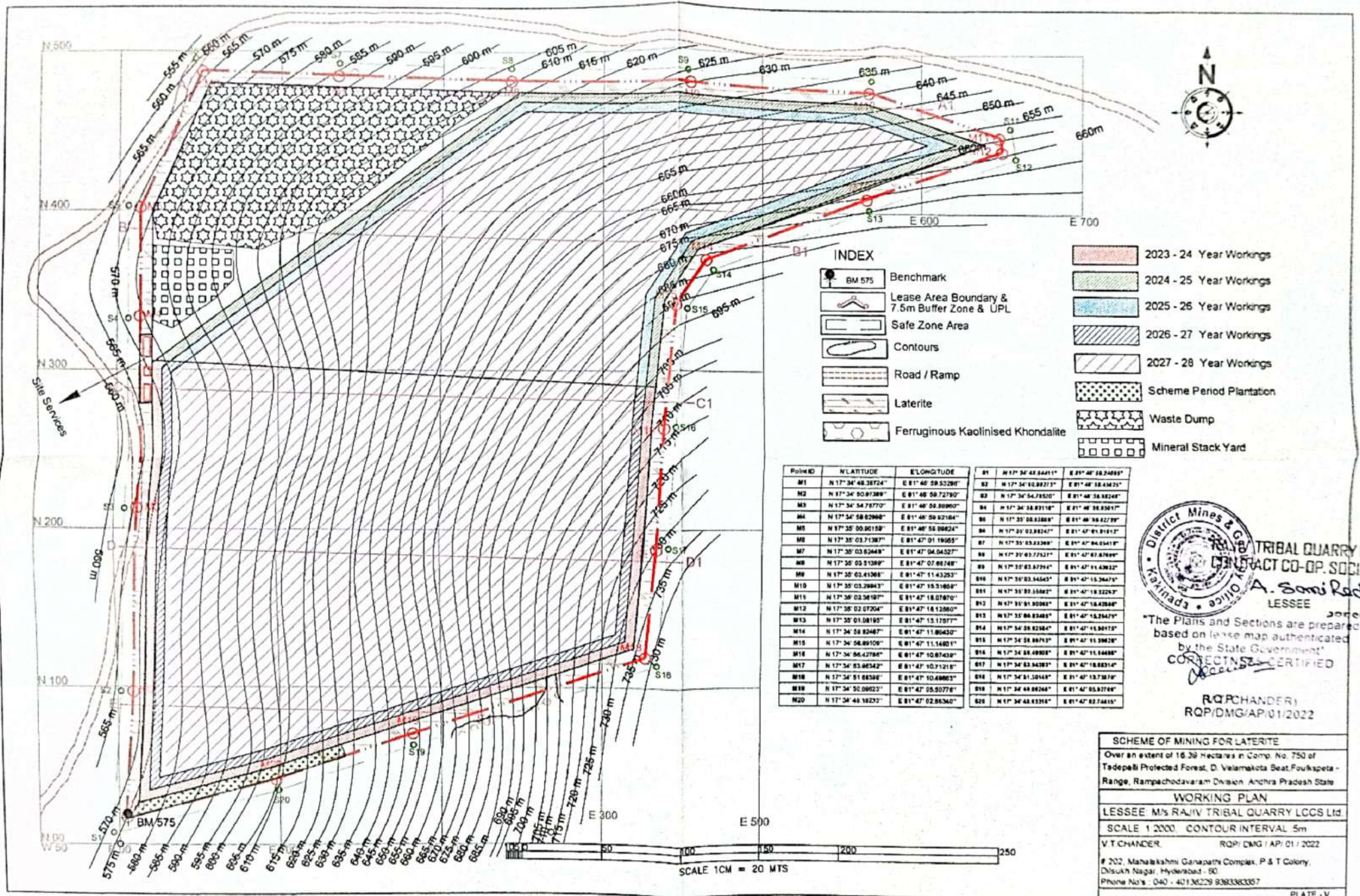
RQP  
(V.T. CHANDER)  
RQP/DMG/AP/01/2022

SCHEME OF MINING FOR LATERITE	
Over an extent of 18.39 Hectares in Comp. No. 750 of Tadepalli Protected Forest, D. Velamkonda Beat, Foulkspeta - Range, Rampachodavaram Division, Andhra Pradesh State	
SURFACE GEOLOGICAL PLAN	
LESSEE: M/s RAJIV TRIBAL QUARRY LCCS Ltd.	
SCALE: 1:2000. CONTOUR INTERVAL: 5m	
V.T. CHANDER, RQP/DMG/AP/01/2022	
# 202, Mahalakshmi Ganapathy Complex, P & T Colony, Disiluk Nagar, Hyderabad - 50. Phone No's: 040 - 40138229, 9383383357	
PLATE - III	

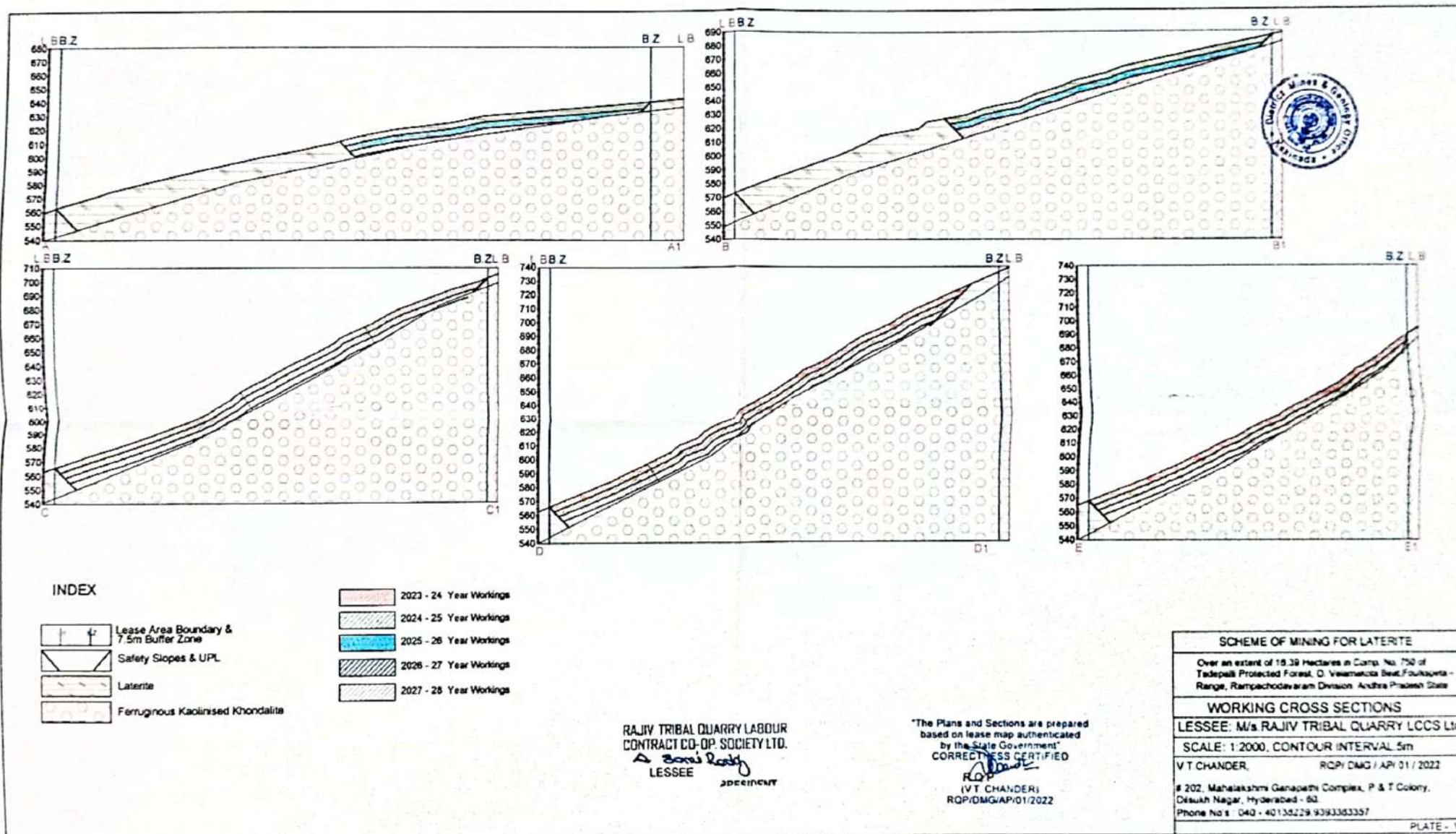




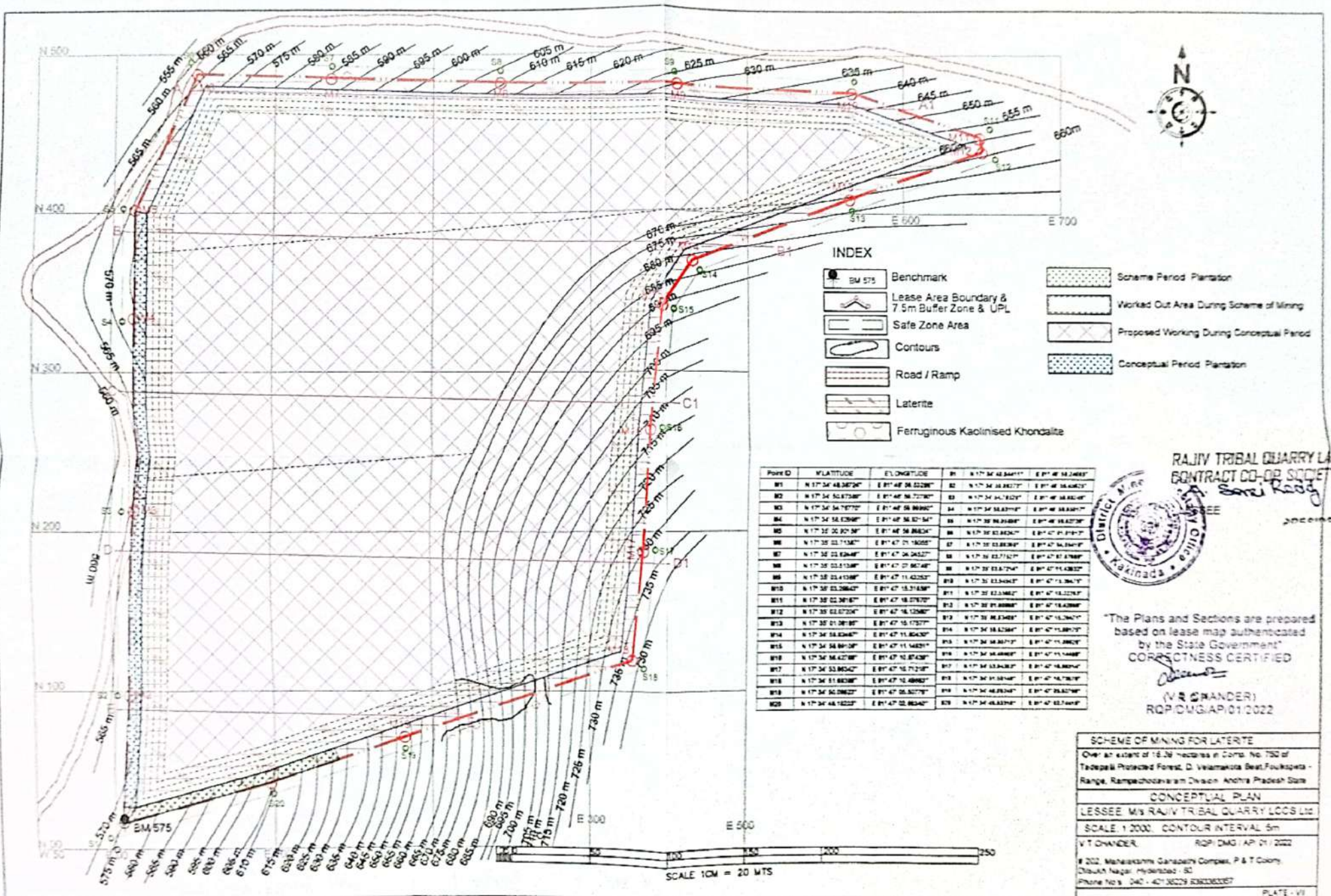




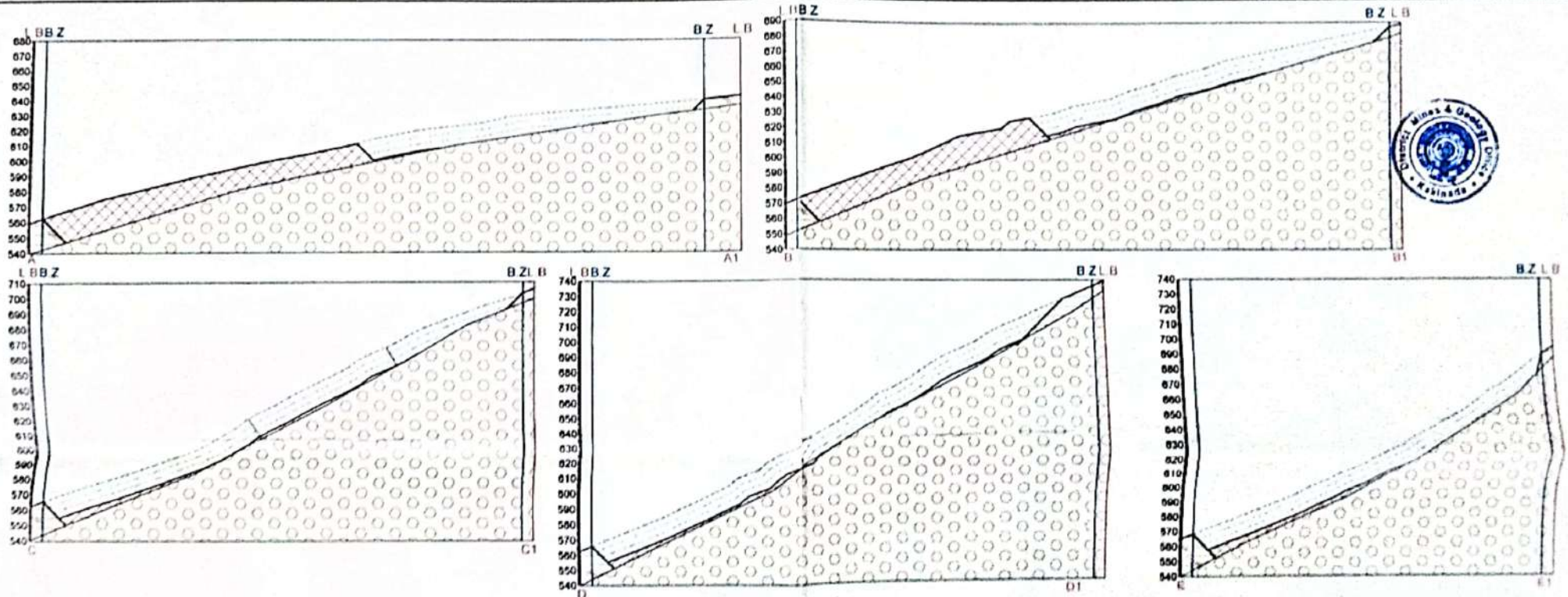












# INDEX

- Lease Area Boundary & 7.5m Buffer Zone
- Safety Slopes & UPL
- Laterite
- Ferruginous Karstified Khondalite

- Worked Out Area During Scheme of Mining
- Proposed Mining During Conceptual Period

RAJIV TRIBAL QUARRY LABOUR  
CONTRACTOR'S SOCIETY LTD.  
LESSEE

proposed

"The Plans and Sections are prepared  
based on lease map authenticated  
by the State Government"  
CORRECTNESS CERTIFIED  
R. GHANESH  
RGP/OMG/AD/17922

SCHEME OF MINING FOR LATERITE	
Over an extent of 10.30 Hectares in Comp. No. 750 of Tadepallu Protected Forest, D. Velamachala Red Fort, Panchajanya Range, Hanamkonda Division, Andhra Pradesh State	
CONCEPTUAL CROSS SECTIONS	
LESSEE: M/s RAJIV TRIBAL QUARRY LCCS Ltd	
SCALE: 1:2000, CONTOUR INTERVAL 5m	
VT CHANDER,	RGP/OMG/AD/17922
# 202, Mahalakshmi Ganapathi Complex, P & T Colony, Dheekun Nagar, Hyderabad - 60.	
Phone Nos : 040 - 40130229 & 30333357	
PLATE - VIII	



