

GOVERNMENT OF ANDHRA PRADESH
DEPARTMENT OF MINES AND GEOLOGY

From
Sri K.L.V Prasad, M.Sc., M.Tech,
Deputy Director of Mines & Geology
CHITTOOR.

To
M/s. Sri Vaishnavi Granites,
Proptx:Smt.Edavalli Akhila,
Sri Vasista Apurva, 501,
#8-2-350, Banjara Hills Road,
No.3, Hyderabad-500034.

Lr.No.2629/MP/BG/CTR/2021, dt: 25-10-2021

Sir,

Sub: Mines & Minerals - Application of Mining Plan filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila for Black Granite over an extent of 4.820 Hectares in Compartment No.227 of Basavapalli RF, Chittapara Beat of Chittoor West Division, Gudipala Mandal in Chittoor District - Approved - Regarding.

- Ref: 1. Memo No.2038/D13-1/2020, dated:09.08.2021 of the Director of Mines and Geology, Ibrahimpatnam.
2. Draft Mining Plan submitted on 13.09.2021 filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila.
3. Inspection report submitted by this office Technical Staff.
4. This Office Letter No.2629/MP/BG/CTR/2021, dt:20.10.2021.
5. Letter dated:21.10.2021 along with 5 sets of fair Mining Plan from the applicant/RQP.

In exercise of the powers conferred by the Government of Andhra Pradesh, through the reference 1st cited. I hereby approve the Mining Plan for the period of five (05) years in respect of application for Black Granite over an extent of 4.820 Hectares in Compartment No.227 of Basavapalli RF, Chittapara Beat of Chittoor West Division, Gudipala Mandal in Chittoor District filed by M/s.Sri Vaishnavi Granites, Proptx:Smt.Edavalli Akhila under Rule 12 of Granite Conservation Development Rules, 1999. This approval is subject to the following conditions.


1. *This Mining Plan is approved without prejudice to any other laws applicable to the quarry lease from time to time whether such laws are made by the Central Government, State Government or any other authority.*
2. *It is clarified that this approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and Minerals (Development and Regulation) Amendment Act, 2015 and any other laws including the Forest Conservation Act, 1980 and APMMC Rules, 1966.*
3. *It is further clarified that the approval of the mining plan is subject to the provisions of the Forest Conservation Act, 1980 and Forest conservation rules, 2003 and other relevant statues, orders and guidelines as may be applicable to the lease area from time to time.*
4. *This office has not undertaken verification of the quarry lease boundary on the ground and does not undertake any responsibility regarding correctness of the boundaries of the lease hold should on the ground with reference to the lease map and other plans furnished by the applicant.*

5. The Q.L. area is as shown on the statutory plans by the applicant is certified by the competent authority with GPS readings of the boundary points of the lease and this office has not under taken the ground truth verification of the quarry lease boundary and pillars on the ground.
6. The approval authority does not owe responsibility with regard to recovery factor of Black Granite and assessment of reserves, any erroneous certification made by the R.Q.P. if any, since the evaluation is done on random basis.
7. The Mining Plan is approved subject to strictly adhering to the relevant Regulations of MMR, 1961 and obtaining prior permission from the Director General Mines Safety whenever and wherever it is required.
8. The applicant/lessee shall safeguard the structures, public buildings, roads, railway line, electric line and water bodies exists if any as per regulations 109 & 127 of MMR, 1961.
9. The approval authority does not owe responsibility with regard to erroneous certification made by the R.Q.P if any and approval is tentative subject to modification of new findings at a later date as per the provisions of Rules inforce, since the evaluation is done on random basis.
10. The proposals contained in the approved Mining Plan shall be applicable from the date of execution of the lease and for the mining activities to be carried out within the lease hold area as per the approved mining plan only.

If anything is found to be concealed as required by the Mines Act in the contents of the approved Mining Plan and the proposal for rectification has not been made or if at later stage the information furnished in the document to be incorrect or misrepresentation of facts, the approval shall be revoked with immediate effect.

NB: This approval become null and void if it found grossly inequitable, made under a mistake of fact, owing to the mis-representation, fraud or in excess of authority. The applicant is not liable to claim any lease held rights till the execution of the lease deed.

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

Yours faithfully,

Deputy Director of Mines & Geology,
CHITTOOR.

Copy submitted to :

- 1) The Director of Mines & Geology, Ibrahimpatnam for favour of kind information.
- 2) The Regional Controller of Mines, IBM, Sultan Bazar, Hyderabad for information.
- 3) The Director of Mines Safety, Hyderabad for favour of kind information.

Copy to the Asst. Director of Mines & Geology, Chittoor along with A.M.P and if any variations noticed in the A.M.P the same shall be brought to the notice of the Undersigned immediately for taking further necessary action.



MINING PLAN FOR BLACK GRANITE

(Submitted Under Rule (12) of Granite Conservation & Development Rules, 1999)

CATEGORY : FULLY MECHANIZED CATEGORY

TYPE OF LAND : RESERVE FOREST LAND

Extent: 4.820 Hects

EXTRACTION OF BLACK GRANITE

COMPARTMENT NO.227, OF BASIVIPALLI R.F., CHITTAPARA BEAT, CHITTOOR WEST DIVISION
OF GUDIPALA MANDAL, CHITTOOR DISTRICT,
ANDHRA PRADESH STATE.

OF

M/s. SRI VAISHNAVI GRANITES,

Mg.Partner: **Smt Edavalli Akhila,**

W/o. B.S. Nithin Reddy,

Sri VasistaApurva, 5th Floor,

#8-2-350, Banjara Hills Road No.3,

HYDERABAD – 500034.

Cell No. 9000352266

PREPARED BY

Y. THIMMAIAH,

RQP/GEOLOGIST

Cell No: 9440053509

(RQP/DMG/AP/11/2020)

61205, Indu Fortune Fields Gardenia,

13th Phase, K.P.H.B. Colony,

HYDERABAD – 500085.

DECLARATION



Certified that the Quarry Lease application is filed for Black Granite, over an extent of 4.82 Hect in Compartment No. 227 of Basivipalli R.F. Chittoor District of Chittoor West Range and Chittoor West Division, A.P. by our company and the mining plan is prepared by the RQP as per the guidelines, issued by the Director of Mines & Geology, Govt. of A.P., according to various provisions under GCD Rule 1999 in full consultation with us and We understood its contents and agree to implement the same in accordance with law.

For M/s Sri Vaishnavi Granites

Signature of the Lessee

(Edavalli Akhila)

Mg. Partner

Date:

Place: Hyderabad

CERTIFICATE



Certified that the provisions of APMMC Rule 1966 & CGD Rule 1999 and the guidelines of the Director of Mines & Geology, Govt. of A.P. have been observed in preparation of Mining Plan for applied Quarry Lease Area of Black Granite, over an extent of 4.82 Hect in Compartment No. 227 of Basivipalli R.F, Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P. and the applicant has agreed to implement the same.

Certified that the provisions of other Acts & Regulations as applicable are observed in preparation of the mining plan. However if any specific permission is required, the applicant will approach all such authorities including, Forest Department & Director General of Mines Safety.

Certified further that the information furnished in Mining Plan is true and correct to the best of my Knowledge.

Date: 02-10-2021

Place: Hyderabad

Signature of RQP

(Y. THIMMAIAH)
RQP/ DMG/ AP/11/2020

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2	Copy of the Q.L. Application and its Enclosures	Annexure- I
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**MINING PLAN FOR APPLIED QUARRY LEASE AREA OF BLACK GRANITE
OVER AN EXTENT OF 4.820 HECT IN COMPARTMENT No. 227 OF BASIVIPALLI R.F. AND
CHITTAPARA BEAT, CHITTOOR WEST RANGE AND CHITTOOR WEST DIVISION, A.P.,
(Submitted Under Rule (12) of Granite Conservation & Development Rules, 1999)**



INTRODUCTION:

Smt Edavalli Akhila, Prop of M/s Sri Vaishnavi Granites has applied for grant of quarry lease for Black Granite over an extent of 4.82 Ha (i.e. 3.70 Ha for Mining, 0.80 Ha for Safety Zone and 0.32 Ha for approach road to the quarry Workings) in Compartment No. 227 of Basivipalli R.F., Chittapara Beat, Chittoor West Range and Chittoor West Division, A.P.(Ref: Annexure-I). The Divisional Forest Officer, Chittoor West Division issued a Letter (Rc. No.1968/2019/To, Dt: 26-05-2021 (Ref: Annexure-IA) to submit the approved mining plan from the Competent Authority of Mines & Geology. Hence the mining plan is prepared based on DGPS surveyed sketch, attested by the Divisional Forest Officer, Chittoor West Division. The mining plan is also prepared as per the guide lines furnished in Form- T and it is submitted under Rule (12) of Granite Conservation & Development Rules, 1999.

I GENERAL:

- 1) Name & Address of the Applicant:
M/s Sri Vaishnavi Granites,
Prop: Smt Edavalli Akhila,
W/o. B.S. Nithin Reddy, Cell No.9000352266
Sri Vasista Apurva, 5th Floor,
#8-2-350, Banjara Hills Road No.3,
HYDERABAD-500034
- 2) Status of the Applicant: Proprietary Firm
- 3) Mineral(s) Which is/are included in the letter of Intent: Black Granite
- 4) Mineral(s) which is the applicant /lessee intends to mine: Black Granite
- 5) Name and Details of Person employed for preparation Mining Plan
Y.Thimmaiah, Mobile: 9440053509
Address: 61205, Indu Fortune Fields Gardenia,
Phase 13, KPHB, Kukatpally, Hyderabad- 500085,
Reg: No: RQP/ DMG/ AP/11/2020, Valid upto: 6/5/2030

II LOCATION AND ACCESSIBILITY:

- 1) Applied / Lease area Details:

Compartment No.	R.F / Beat	Range	Division	Extent	Ownership/ occupancy
227	Basivipalli / Chittapara	Chittoor West	Chittoor West	4.82Ha	Reserved Forest Area, Applied for Quarry Lease.

The Mining Plan / Scheme is Approved subject to the conditions & stipulations indicated in the Mining Plan / Scheme Approved letter

No: 2629/MPLRG/DD-CTR/2021

Date: 25/10/2021

APPROVED

Deputy Director of Mines & Geology
Chittoor.



Geo Coordinates (Datum: WGS-84) for all Boundary Pillars of Applied C.L.

Sl. No.	Name	Latitude	Longitude
1	VM-1L-7	13.08837706	79.13004399
2	VZ-1	13.08825377	79.1300112
3	VM-2	13.08742034	79.13035355
4	VZ-2	13.08737053	79.13030515
5	VM-3	13.08687034	79.13054965
6	VZ-3	13.08682949	79.13049072
7	VM-4	13.08622991	79.13137014
8	VZ-4	13.08616702	79.13133977
9	VM-5	13.08609106	79.13205066
10	VZ-5	13.08602311	79.13203653
11	VZ-6	13.08586198	79.13275212
12	VM-6	13.08590984	79.13284988
13	VM-7	13.08541896	79.13261159
14	VZ-7	13.08542754	79.13254256
15	VM-8	13.08491999	79.13241011
16	VZ-8	13.08500515	79.13237264
17	VM-9	13.08525255	79.13144738
18	VZ-9	13.08531908	79.13146406
19	VM-10	13.08566106	79.13031198
20	VZ-10	13.08571339	79.13036904
21	VM-11	13.08620044	79.13004211
22	VZ-11	13.08623733	79.13010082
23	VM-12	13.08697813	79.12967515
24	VZ-12	13.08702082	79.12973758
25	VM-13	13.08782974	79.12949987
26	VZ-13	13.08780786	79.12957408
27	R-1	13.09158583	79.12679598
28	L-1	13.09154786	79.12687487
29	L-2	13.0906379	79.12729208
30	R-2	13.09058892	79.12724376
31	L-3	13.09020476	79.12780826
32	R-3	13.09016038	79.12777071
33	L-4	13.09002421	79.12812082
34	R-4	13.08998003	79.12808773
35	L-5	13.08940804	79.12903909
36	R-5	13.08937706	79.12899182
37	L-6	13.088926	79.12954079
38	R-6	13.08888793	79.12950083
39	R-7	13.08833002	79.12999018

2) General Location Map Showing Applied Area and Access Routes:

The DGPS surveyed area is marked on Indian Topo-Sheet No: 57/ O/4 and it is enclosed as "Location Cum Key Plan" of Plate-1. The DGPS map, showing the applied quarry lease area in Comp .No: 277 of Basivipalli R.F, Chittapara Beat of Chittoor West Range and Chittoor West Division for Quarry is enclosed as Plate-1A.

The applied quarry lease (Q.L.) area is a fringe area of the forest, adjacent to the revenue land of Dalavaipalle Village, Gudipala Mandal in Chittoor Dist, located on Indian Topo Sheet No. 57 O/4. The applied area is located between the Latitude of 13° 05' 5.71" to 13° 05' 12.99" and Longitude of 79° 07' 46.20" to 79° 07' 58.20" on Indian Topo Sheet No. 57 O/4. The applied area is also located at a distance of 600m from the village of Dalavaipalle due S. The village Dalavaipalle is located at a distance of 0.5 km from Gudipala, the mandal headquarters which is located on N.H-4 at a distance of 12 km from Chittoor town towards Vellore. The applied area can be approached by a metal road of 0.6 km from N.H.-4 i.e. from Dalavaipalle. About 533 m length and 6m width of the Forest land (0.32 Ha) has been applied for approach road purpose from revenue land to the Quarry leased area. Gudipala (1km) is the nearest place to the Q.L. area for primary facilities like electricity, primary school, post office and Bus services. Chittoor (13km) is the nearest place for other facilities like Market, Higher Education, Hospitals and Railway Station. The nearest airport is located at Thirupati (98km) and the nearest seaport is located at Chennai (150km) from the applied area.

PART – A

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

a) Brief description of Topography, Drainage Pattern, Vegetation, Climate, Rainfall Data of the Area:

- i) Topography: The proposed quarry lease area, Safety zone and part of the approach road area belong to hilly terrain. Quarry lease area is elevated in the centre (384m max) and sloping towards North, South and NW directions. The lowest level i.e. 360m (MSL) is on NW side and 364m & 376m is on south & north directions respectively of the applied Q.L. area. The subject is gradually rising towards centre of area up to 384m MSL from NW to SE direction. There is a maximum relief of 24 mts towards NW from centre of the applied Q.L. area. Due to Dolerite dyke (Black Granite) intrusion, the mining area rises to a height of 24 mts. Even though, the applied quarry lease area and the proposed approach road belong to R.F, it does not have much vegetation except scattered trees and bushes on the slopes. There are no prominent natural drainage channels within the applied area. But a seasonal watercourse is running adjacent to the applied quarry lease on NW side. The surface rain water of the area will joins to the seasonal nala and the nala join to local tanks, located at more than 1.0 km from the area on Northern side.
- ii) Drainage Pattern: There is no natural drain system in the applied area. But the surface rain water flows through the slopes of the applied area and joins to the nala running in the area on NW sides.
- iii) Vegetation: Because the applied area is located in R.F. the slopes of the area is covered by the vegetation like scrubs, bushes and small trees. All along the centre portion (Peak of the hill) of the applied area is formed by the Dolerite Dyke. Due to Dyke formation, the vegetation is scatter in the centre of the applied area.
- iv) Climate & Rainfall Data: The applied lease area belongs to tropical climate. The annual rainfall of the area varies from 640 mm to 720 mm.

2. GEOLOGY AND EXPLORATION:

a) Brief descriptions of Regional Geology with Reference to Location of Applied Area:

The region of the subject area belongs to Peninsular Gneiss of Archean Group. The Regional area forms a part of granite green stone terrain of eastern part of Dharwar Craton. The green stone rocks are made up of metabasalt with acid volcanic intrusions, exposed as linear belts. These green stone rocks are introduced by granitic rocks of Grey, Brown and Black varieties. In this area the granite terrain comprises banded /streaky gneiss ranging in composition from Tonalite to Granodiorite, Migmatitic Gneiss and Granodiorite Granite with compositional variation between Granodiorite Granite and Alkali Feldspar Granite. Among these varieties of Gneissic Granites and Dolerite Dykes are suitable for dimensional stone industry. The stratigraphy of the region is given below.

<u>Geological Era</u>	<u>Geological Unit</u>	<u>Rock Type</u>
Proterozoic	Closepet granite and its	Granite Variants
	Equivalents Peninsular Gneiss	Migmatites
	With older Granites and Migmatites	Gneisses and Granites
Archean	Schistose rocks of Greenstone Belts and its equivalents	

b) Detailed Description of Geology of the Area:

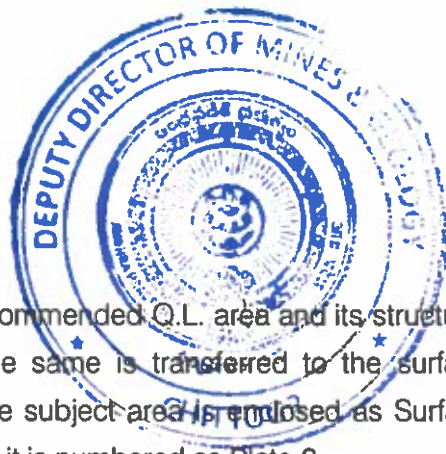
The applied Q.L. area and adjoining lands are mainly consisting of Grey Granite, belongs to Peninsular Gneissic Complex. Most of the surroundings are covered by the Grey Granite and it is exposed as sheet rock. The Dolerite Dyke is intruded along the centre of the applied area in SE-NW direction. The Dyke portion is exposed as boulders and Sheet rock of Dolerite (Black Granite). The periphery of the Dolerite dyke, Grey Granite is exposed as sporadically and most of the slopes of the applied area are covered by the soil and float material of Dolerite boulders. No shear zones or faults are noticed in this area. The Dolerite (Black Granite) dyke is well exposed, over a length of 416 m, to a maximum width of 40 m along the top of the hill portion and to a height of 24 m (max).

Soil & Scree: Red soil with float boulders of Black Granite is covering the slopes of the applied area to a thickness of 0.5m to 2.5m as shown on surface Geological Plan & Sections, enclosed as Plate-3 & Plate - 3A.

Dolerite (Black Granite): Hard and compact, Dolerite (Black Granite) is exposed along the top of the hill to a maximum height of 24 m between the RLs of 368 m to 384 m. The Black Granite is massive, fine grained, hard and compact in nature. It shows dark grey in colour. Due to its colour, hardness & compactness, it is being used for cutting & polishing stone industry. The Black Granite Consists of Augite and Plagioclase Feldspar and low quantities of olivine with Iron Oxides minerals.



- i) Texture and Grain size: The rock shows uniform in grain size of small to fine grain.
 - ii) Black and aesthetic beauty of the stone: Due to small & fine grain size, the rock will take good polish and gives mirror image after polish the rock.
 - iii) Hardness: 6 to 6.5
 - iv) Mineralogical composition: Petrologically the rock has Augite, plagioclase feldspar, clinopyroxenes and olivine as major minerals in this rock. Apatite, Zircon and some opaque minerals constitute the minor minerals.
 - v) Density/ Specific gravity: 2.75.
 - vi) Water absorption Capacity: 0.15% (kg/cm²)
 - vii) Porosity: 0.35
 - viii) Compression Strength: 1969kg/cm² (in dry state) and tensile strength 96kg/cm². "The value given is based on the Physical tests carried out for different rocks in the laboratories of the Geological Survey of India, and published by the Organisation".
 - ix) Abrasiveness: 6-5.5
 - x) Permeability: 0.55%
 - xi) Rock quality designation: Good RQD% between 75-90%
- c) Details of Applied Quarry lease holder:
 M/s Vaishnavi Granites,
 Proprietor: Smt Edavalli Akhila,
 W/o Nithin Reddy, Cell:9000352266
 Sri Vasista Apurva, 501,
 # 8-2-350, 2, Banjara Hills Road No.3,
 HYDERABAD-500034
- d) Details of Prospecting Carried out:
 The Black Granite, which is used for cutting & polishing, is exposed to a maximum height of 24 m above the ground in the applied area. It is also seen from the adjacent workings quarries that the Granite available in this region is useful for cutting & polishing industry. So, no separate exploration was carried out in this area.
- e) Surface Plan:
 The topographical survey of the applied lease area was carried out and the levels are taken with reference to bench mark (319.90m), which is marked on boundary pillar No. R1, located on NW side of the subject area. Based on the levels obtained from topographical survey, the surface plan is prepared by showing the contours at 4m interval. The surface features available in the applied lease are shown on surface plan and the same is enclosed as Plate No-2 on 1: 2000 scale.



f) Surface Geological Plan:

The Geological features like the litho-units exposed in the recommended Q.L. area and its structural features are collected from the applied lease area and the same is transferred to the surface geological plan. The plan showing the geological data of the subject area is enclosed as Surface Geological Plan on 1: 2000 scale with 4m contour interval and it is numbered as Plate-3.

g) Geological Cross Sections:

Eight Geological Cross Sections (A-A' to H-H') were drawn across the subject area at an interval of 50 m on 1:1000 scale and depicted the lithology obtained from the outcrops of this area and adjacent workings quarries. The geological cross sections are enclosed as Plate-3A.

h) Broadly indicate the future program of exploration for First Five Years: -

It is proved that the Black Granite, which is useful for cutting & polishing stone industry availability to a thickness of 24 m along the top of the hill in the applied area. So, no separate exploration is proposed for the first five years of the plan period.


i) Reserves and Resources as per UNFC. Detailed Calculation of the reserves shall be stated:

The availability of Black Granite, which is useful for cutting & polishing stone industry, is exposed to a maximum height of 24 m above the ground level between the RLS of 360 m – 384 m. And the dyke is extending further depth from the surface. So, the rock which is occurring up to the RL of 350 m RL in the applied area is considered for proved reserves. The Geological reserves are estimated by cross sectional method by multiplying the cross-sectional area of the Black Granite zone with the influence distance of the sections. Thus the volume of the in-situ rock will be obtained. Due to weathering, joints and factored zones, the total in-situ rock reserves will not be useful for cutting & polishing stone industry. The weathered rock, small boulders / blocks with irregular shaped material will be treated as mineral waste. It is expected about 15% to 20% of useful and marketable black granite blocks can be recovered from in-situ reserves. An average recovery percentage of 17.5% is considered for estimation of Black Granite reserves and the remaining 82.5 % is considered for mineral waste. To assess the reserves of saleable B. Granite, the volume of the in-situ B. Granite is multiplied by 17.5%, the recovery percentage of saleable blocks. The reserves calculation of the Black Granite is furnished in the following Table No-5.

Geological Reserves of Black Granite available in Mining & Safety Zones:

Proved Category:

Table No.5



Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m ²)	Volume of In-situ B. Granite (m ³)	Reserves of B. Granite (m ³) @ 17.5%	Generation of Waste (m ³) @ 82.5%
Proved Reserves	A-A'	55	350	19250	3369	15881
	B-B'	50	962	48100	8418	39683
	C-C'	50	828	41400	7245	34155
	D-D'	50	555	27750	4856	22894
	E-E'	50	526	26300	4603	21698
	F-F'	50	1026	51300	8978	42323
	G-G'	50	1316	65800	11515	54285
	H-H'	81	1078	87318	15281	72037
				367218	64263	302955

Geological Reserves of Black Granite available in Mining & Safety Zones = 64263 m³

j) Feasibility Report:

The Granite, which is used for cutting and polishing industry is exposed to a height of 24 m above the ground level and it is covered by thin layer of boulders and weathered material. The rock will be excavated by opencast method from this area and it will be supplied to the cutting and polishing stone industries, which are located close to the subject area. The cutting and polishing units will help to cut the granite blocks into slabs and monuments. The slabs and monuments will be polished and the same will be supplied to the consumers, located in and outside the country. The rock is hard in nature and the primary blocks will be separated with the help of wire-saw cutting machine from mother rock and then the primary blocks will be cut into secondary blocks with the help of jackhammer drilling and wedge cutting. The waste generates from cutting of the blocks will be separated and it will be stocked in proposed dump yard and the saleable granite blocks will be supplied to the market. EC clearance and CFO & CFE will be obtained from MoEF & PCB respectively after getting the stage-1 proposals from the forest department. The subject area is well connected by Roads, and Railway lines. All types of modern communication system are available nearby the area.

Financial analysis per economic viability of the deposit:

The expected production cost per cubic meter of black granite production is detailed below:

Heads	Cost in Rs per m ³
Mining	12000/-
Wages	3000/-
Depreciation	50/-
Interest	50/-
Royalty	4000/-
Miscellaneous	100/-
Overhead cost	100/-
Total	19300/-



The above cost is a very approximate, whereas due to the market condition the above shown cost may vary accordingly. The granite of this area is used for sale and there is good market available for black granite in and around A.P. There is no problem for marketing of black granite.

Economic Axis: The mineral occurrence is seen in and around the area from working quarries. It is also proved from adjacent quarries that the granite of this area is useful for cutting and polishing industries. So, the mining is economically viable in present market.

K) **Mineral Reserves:** The geological reserves of Granite estimation is furnished under Table No-5.

- i) Mode of mining: Because, the Granite of this area is exposed along top of the mound and it is hard in nature, it will be excavated by open cast method with the help of wire-saw cutting machine and jackhammer drilling. An excavator & dumpers will be used for shifting the granite waste and granite blocks from working face.
- ii) The adjacent quarry workings reveal that about 82.5% the ROM is going to be generated as waste.
- iii) Cut of Grade and ultimate pit depth: The Granite available to a depth of 34m from top of the hill is useful for cutting & polishing industry.

Non-Mineable Resources: Part of the geological reserves, estimated under table no-5 on page-7 will be blocked in safety zone and bench formation. The non-mineable reserves are estimated by cross sectional methods as furnished in the flowing tables -6A & 6B.

Proved Reserves blocking in 7.5m safety zone: **Table-6A**

Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m ²)	Volume of In-Situ B. Granite (m ³)	Reserves of B. Granite (m ³) @ 17.5%	Generation of Waste (m ³) @82.5%
Proved Reserves	A-A'	11	146	1606	281	1325
	B-B' to G-G'	0	0	0	0	0
	H-H'	7.75	1078	8355	1463	6892
			Total	9961	1744	8217

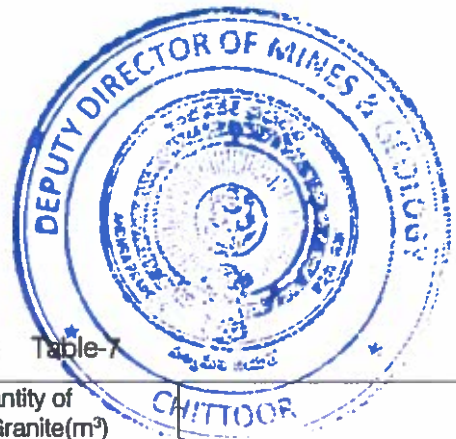
Proved Reserves blocking under Safe Benches: **Table-6B**

Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m ²)	Volume of In-situ B. Granite (m ³)	Reserves of B. Granite (m ³) @ 17.5%	Generation of Waste (m ³) @82.5%
Proved Reserves	A-A'	45	146	6570	1150	5420
	B-B'	0	0	0	0	0
	C-C'	50	50	2500	438	2063
	D-D'	50	225	11250	1969	9281
	E-E'	50	236	11800	2065	9735
	F-F'	50	206	10300	1803	8498
	G-G'	0	0	0	0	0
	H-H'	0	0	0	0	0
			Total	42420	7424	34997

Black Granite Reserves blocking in safety zone & under benches = 9168 m³

Mineable Reserves of Black Granite:

Geological Reserves – Blocking Reserves: 64263 – 9168 = 55095 m³



UNFC Classification of Reserves & Resources Estimation: Table-7

Classification	Code	Quantity of Black Granite(m ³)	
Total Mineral Resources (A+B)		64263	
<i>A. Mineral Reserves</i>			
1. Proved Mineable Reserves	111	55095	
2. Probable Mineable Reserves	121&122	<u>000000</u>	
		55095	
<i>B. Remaining Resources</i>			
1. Feasibility Resources	211	9168 (Non-Mineable)	
2. Prefeasibility Mineral Resources	221 & 222	---	
3. Measured Mineral Resources	331	---	
4. Indicated Mineral Resources	332	---	
5. Inferred Mineral Resources	333	----	
6. Possible Resources	334	----	

Life of the Quarry:

Based on Black Granite reserves available in the area and the present market demand for B. Granite, is proposed to raise about 4000 cubic metres per year on an average. At this rate of production the expected life of the quarry is: $(55095 \text{ m}^3 / 4000 \text{ m}^3 = 13.77 \text{ yrs})$ **14 Years.**



3 MINING:

A. Open Cast Mining:

i) Briefly Describe the Proposed Method for Excavation with all Design Parameters indicating on plans /sections :

The Black Granite which is useful for cutting & polishing industry is exposed along the top of the hill. So, the mining activity will be carried out by opencast benching method. The weathered boulders mixed with soil will be removed with the help of excavator from the surface to a thickness of about 2m and the waste will be transported to the proposed dump yard by the dumpers. Sometimes the weathered rock from working face will be removed with the help of jackhammer drilling blasting. After removal of boulders and weathered material from the surface the granite production will be obtained by excavating three to four benches of 6m height (max) each. To cut the primary granite blocks from mother rock, wire-saw cutting machine will be used. The primary blocks will be separated from mother rock and it will cut into secondary blocks with the help of wedge cutting. While cutting the blocks about 82.5% (on average) of the material is going to be generated as solid waste, which consists of shapeless and defected material. During first five years, it is proposed to raise about 20,000 cubic metres of black granite blocks in five years at the rate of 4000 cubic metres per year on an average. To achieve the target production, about 0.9193 Ha of area will be excavated during first five years plan period. The excavations will be carried out in three to four benches of 6m height each for production. After recovered the saleable granite blocks from ROM, the shapeless and defected material is treated as mineral (solid) waste. In every year about 18860 cubic metres of granite waste i.e. about 94295 cubic metres of waste will be generated in first five years.

ii) Processing (If required):

No processing of the granite blocks will be carried out in the lease area.

iii) Drilling & Blasting:

Drilling and blasting is required for development workings and to remove the weathered and country rock. So, the applicant is advised to get the explosive license to store the required explosives at quarry site. The blast holes will be drilled with jackhammer to a depth of 2.5 m to 3m with spacing of 1 m and burden of 1.5m. Each drill hole will be charged with low strength slurry-based explosives and ANFO of 1kgs.

iv) Indicate year-wise tentative Excavation indicating development, ROM, pit wise as in table below:

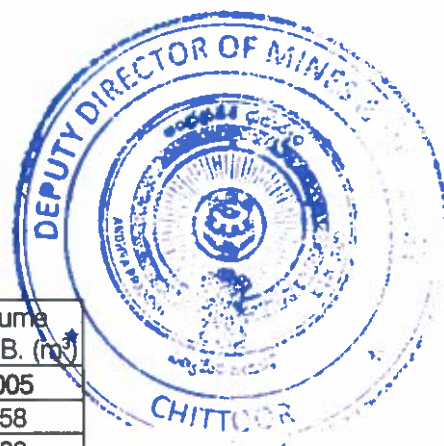
Based on present market demand for black granite and keeping in view of available reserves in the area, it is proposed to raise 4000 m³ per year in 240 working days as detailed below. The working will be carried from single pit, from NW to SE direction during 1st five years plan period.

Year Wise Development & Granite Production for 1st five Years:

Year Wise Development:

Table-9A

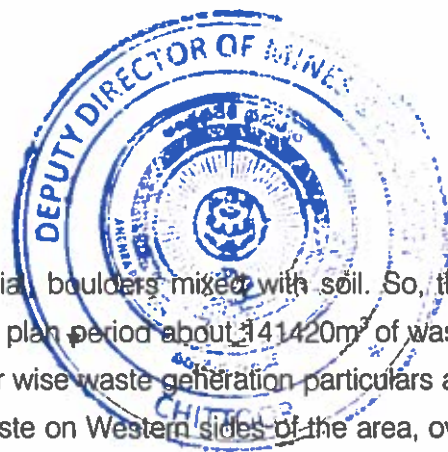
Year	Bench No. & Its FRLS	Working Area in OB (m ²)	Thickness of O.B. (m)	Volume Of O.B. (m ³)
1 st Year	1) GL-371	2003	1.5	3005
2 nd Year	1) GL-374	286	3	858
	2) 374-368	148	6	888
	3) 368-362	70	6	420
	Total			2166
3 rd Year	1) GL-374	874	3	2622
	2) 374-368	628	6	3768
	3) 368-362	296	6	1776
	Total			8166
4 th Year	1) GL-380	1430	2	2860
	2) 380-374	100	6	600
	Total			3460
5 th Year	GL-380	1400	2	2800
	G. Total			19597
	Average			3919



Year Wise Production:

Table-9B

Year	Bench No. & Its FRLS	Working Area (m ²)	Bench Height (m)	Volume (m ³)	Production of B. Granite @17.5% (m ³)	Mineral Waste @ 82.5% (m ³)
1 st Year	2) GL-368	2003	5	10015	1753	8262
	3) 368-362	1340	6	8040	1407	6633
	4) 362-356	800	6	4800	840	3960
	Total			22855	4000	18855
2 nd Year	1) GL-374	1600	3	4800	840	3960
	2) 374-368	1400	6	8400	1470	6930
	3) 368-362	1010	6	6060	1061	5000
	4) 362-356	600	6	3600	630	2970
	Total			22860	4001	18860
3 rd Year	1) 380-374	1600	3	4800	840	3960
	2) 374-368	1282	6	7692	1346	6346
	3) 368-362	1060	6	6360	1113	5247
	4) 362-356	668	6	4008	701	3307
	Total			22860	4001	18860
4 th Year	1) 380-374	1430	6	8580	1502	7079
	2) 374-368	1160	6	6960	1218	5742
	3) 368-362	790	6	4740	830	3911
	4) 362-356	430	6	2580	452	2129
	Total			22860	4001	18860
5 th Year	1) 380-374	1400	6	8400	1470	6930
	2) 374-368	1104	6	6624	1159	5465
	3) 368-362	802	6	4812	842	3970
	4) 362-356	504	6	3024	529	2495
	Total			22860	4001	18860
	G. Total				20004	94295
	Average				4001	18859



iii) Dump Management:

The proposed mining area is consisting of weathered material, boulders mixed with soil. So, this waste material will be separated from the surface. During this plan period about 141420 m³ of waste will be generated from five years production @ 82.5%. The year wise waste generation particulars are furnished under table-9A & 9B. It is proposed to stack the waste on Western sides of the area, over an extent of 7593 m² to a height of 15 to 18m @ 1518 m³ per each year on an average. The granite blocks will be supplied to the cutting & polishing units, which are located in and around A.P. State.

iv) Layout of mine workings, pits & Roads:

Mine Layout for Year-Wise Development for First Five Years Period:

The Granite, which is useful for cutting and polishing stone industries, is exposed to the surface with thin layer of overburden consisting of boulders mixed with soil and weathered material. So, the development will be carried out in overburden on the surface of the area during first five years. The waste granite, generates along with granite blocks will be separated and it will be stocked in proposed dump yard. In every year, the overburden will be removed to a thickness of about 1m to 2m before going for granite production from the surface. The excavations will be carried out from the surface with the help of jackhammer drilling and blasting and the blasted waste will be excavated with the help of excavator. The waste material will be loaded into dumpers and the same will be transported to the proposed dump yard. Due to quarry excavations about 0.9193 Ha will be degraded into working pit by the end of first five years. An approach road will be formed to the bottom of the working pit from NE corner. From five years excavation about 94295 m³ of granite waste and 20004 m³ of granite blocks will be generated as detailed under table -9A & 9B.

Year wise waste generation particulars are summarised below.

Year	Generation of O.B. (m ³)	Generation of Granite Waste (m ³)	Total Waste (m ³)	Dumping Area (m ²)
1 st Year	3005	18855	21860	1457
2 nd Year	2166	18860	21026	1402
3 rd Year	8166	18860	27026	1802
4 th Year	3460	18860	22320	1488
5 th Year	2800	18860	21660	1444
Total	19597	94295	113892	7593

v) Mine Layout for year-wise Production for First Five Years:

It is proposed to raise about 4000 cubic metres of Black Granite blocks per year during first five years plan period on an average. In each year, it is proposed to excavate the raw material in three or four benches of 6 m height each after removal of overburden to a thickness of 1m to 2m from the surface. The workings will be started from NW side of the area, after leaving 7.5 m safety barrier from boundary line. The mother rock will be cut into primary blocks with the help of wire-saw cutting machine and line driller. The un-defected primary blocks will be split into secondary blocks with the



help of jackhammer drilling and wedge cutting. While cutting the primary blocks into secondary blocks, the defected & shapeless material will be generated. This material is treated as granite waste. From second year onwards, the working benches of first year pit will be advanced towards SE. Year wise working areas are shown on plan and section of plate-4. The bench wise production details of each year are given in Table-9A & 9B on page-11.

Black Granite Production:

First Year Workings: In this year, the Granite block will be excavated with the help of wire-saw cutting machine and line driller from NW side of the subject area in three benches of 5 to 6m height (max) each with the floor RLS of 368, 362 & 356 m, over an extent of 0.2003 Ha. Before going for granite block excavations, the O.B. consisting of small and withered material will be excavated to an average thickness of 1.5m from the surface (G.L). Due to these quarry excavations about 4000 m³ of saleable granite blocks, 3005 of O.B. m³ and 18855 m³ of granite waste will be obtained from three workings. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Second Year: In this year, the Granite production will be obtained by developing four benches on SE side of previous year workings between the RLS of GL-374, 374-368, 368 -362 m & 362-356m, over an extent of 0.1886 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 2166 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Third Year: In this year, the Granite production will be obtained by advancing the four working benches of second year, towards SE without changing the RLS (380-374, 374-368, 368 -362 m & 362-356m) over an extent of 0.2474 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 8166 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.

Fourth Year: In this year, the Granite production will be obtained by advancing the four working benches of third year, towards SE without changing the RLS (380-374, 374-368, 368 -362 m & 362-356m) over an extent of 0.1430 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 3460 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B.



Fifth Year: In this year, the Granite production will be obtained by advancing the four working benches of fourth year, towards SE without changing the RLS (380-374, 374-368, 368-362 m & 362-356m) over an extent of 0.1400 Ha. Due to these quarry excavations about 4001 m³ of saleable granite blocks, 2800 of O.B. m³ and 18860 m³ of granite waste will be obtained. The waste rock will be shifted to the dump yard and the saleable blocks will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 and bench wise production details are furnished under table-9A & 9B..

Haulage and Transport of Granite Blocks& Waste:

The excavated waste material will be loaded into dumper with the help of excavator. The loaded material will be transported to the proposed dump yard, located on western side of the proposed lease area. The granite blocks will be loaded into hired trucks and the same will be transported to the granite industries. To achieve target production, the following machinery is used in the lease area.

The following machinery is required to get the target production:

Machinery	Quantity	Description
Excavator	2 No	Tata Hitachi-300Lc
Loader /JCB	1 No	4t Capacity
Dumpers	4Nos	20 t capacity
Compressor	2 No	120 cfm
Line Drill Machine	1 No	10mm Pneumatic Drill
Wire- saw cutter	1 No	60 HP
Jackhammers	6 Nos	RH 658

4. MINE DRAINAGE:

- Minimum & Maximum Depth of Water:** The bore well drilled in adjacent fields at foot hills shows the groundwater table availability at a depth of more than 60 m in rainy seasons.
- Maximum & Minimum Depth of Workings:** The workings will go to a maximum depth of 24m from top of the hill, which is raining to a height of 24 m from ground level.
- Quantity and Quality of Water:** Since the mine workings are restricted to 24m from top of the hill during this plan period, no surface or ground water is going to be accumulated in working pit.
- Regional Drainage Pattern:** The subject area belongs to hilly terrain and there is no specific drainage pattern in the subject area. There is a seasonal nala flowing adjacent to the applied area on NW side. The surface rain water of this area flows through the slopes and joins to this seasonal nala.



5. STOCKING OF MINERAL REJECTS / SUB GRADE MATERIAL AND DISPOSAL OF WASTE:

5.1 Nature of Waste and Its Rate of Yearly Generation:

Due to granite quarry workings, the waste consisting of weathered material, under size and shapeless boulders mixed with soil will be generated. Apart from this overburden, the defected granite waste also will be generated. The year wise waste generation particulars for first five years of the plan period and its dumping particulars are furnished in the following table.

Particulars of year wise waste generation and its dumping area are furnished below.

Year	Generation of O.B. (m ³)	Generation of Granite Waste (m ³)	Total Waste (m ³)	Dumping Area (m ²)
1 st Year	3005	18855	21860	1457
2 nd Year	2166	18860	21026	1402
3 rd Year	8166	18860	27026	1802
4 th Year	3460	18860	22320	1488
5 th Year	2800	18860	21660	1444
Total	19597	94295	113892	7593

5.2 Selection of Dumping Site:

About 19597 m³ of overburden consisting of weathered and Shapeless boulders mixed with soil and 94295 m³ of country rock will be generated in this plan period. The total waste of 113892 m³ will be stocked over an extent of 7593 m² on western side of area to a height of 15 to 18 m as shown on plate-4.

5.3 Method of Dumping and Maximum Height and Spread of Dumping:

The waste rock mixed with soil and the granite waste will be stocked over an extent of 7593 m² and to a height of 15 to 18m. The proposed waste dump yard is shown on plate-4.

5.4 Precautions for Confinement of Dumps to Prevent Pollution of Surface water bodies/ courses:

The waste dump will be stabilised with the retaining wall and garland drain to confinement from surface water bodies on western & eastern side of the dumps, over a length of 320m and to a width of 1m each.

5.5 Arrangement of Separate Stacking of Sub-Grade Minerals:

The waste rock mixed with top soil and granite waste will be stocked in same proposed dump yard.

6. USE OF MINERALS&MINERAL REJECTS:

- The black granite of the area will be supplied to the cutting and polishing industries. The granite blocks will be cut in to slabs and monuments. The polished slabs will be used for flooring, wall panelling, table tops and other construction field. The monuments will be used for decorative purpose.



7. PROCESSING OF ROM & MINERAL REJECT:

The in-situ material excavated from the lease area will be separated as saleable granite blocks and granite waste. The saleable blocks will be supplied to the cutting and polishing industries and the granite waste will be stocked at proposed dump yard.

8. OTHERS

a) Site Services:

For site services an office, first aid and rest shed will be provided in the lease area on NE side of the area. The location of the proposed site services are shown on plate-4.

b) Employment Potential:

The mine working will be carried out under the supervision of a mine's manager, having a mining engineering certificate under the provisions of MCDR 1988. The following manpower will be employed to carry out the mining activity in the lease area.

Sl. No.	Particulars	Total No's
1	Mines Manager	1
3	Operators	12
4	Semi-Skilled	6
5	Un-Skilled	6
6	Office staff & Security	5
	Grand Total	30Nos

PART-B

PROGRESSIVE MINE CLOSURE PLAN

1 Environment Base line information:

- a) Existing Land Use Pattern: The subject area is belongs to Reserved Forest. The surrounding lands, located on NE side within 500m radius are mainly used for agriculture to grow dry crops. The forest land is continuing towards Northern, South & West from the applied lease area. The existing land use pattern of the recommended lease area is detailed below.

Description	Extent of Area is used (Ha)
Mining	Nil
Waste dump	Nil
Road&Infrastructure	Nil
Mineral Stock	Nil
Agriculture	Nil
Forest Land	4.82
Total	4.82 Ha

- b) Water Regime: There are no perennial water sources in the applied lease area. The rainwater flows through the slopes of the area and it joins to seasonal nala, which is running on NW side.
- c) Human Settlements: Within the recommended lease area, there are no villages or human settlements located. There is no question of any evacuation or resettlement of people elsewhere. Workers come from the village, which is located at more than 1 Km. The villages located within 5km radius from the subject area are shown on plate-1.
- d) Public buildings, sanctuaries, eco-sensitive areas etc: There are no public buildings, monuments, historic importance places & any sanctuary within or in the vicinity of the area.

2 Impact Assessment:

- a) Land Degradation: The following area is required for mining activity for first five years plan period.

Mining Activity	Area Covers in Hects
Working Area	0.9193
Waste Dump Area	0.7593
Plantation	0.0500
Mine Roads	0.0480
Site Services	0.0050
Retaining wall & G. Drain	0.1280
Total Area	1.9096 Ha

- b) Air quality: The mining activity in this area is situated at safe distance from the villages which are likely to be affected. However air quality will be maintained within the Standards of National Ambient Air Quality (NAAQS) as detailed below.

Sl. No	Pollutant	Level
1	SO ₂	120ug/m ³
2	NO ₂	120ug/m ³
3	Suspended Particulate Mater (SPM)	500ug/m ³
4	Respirable Particulate Mater (RPM) (size < 10um)	150ug/m ³
5	CO = 5mg/m ³	5mg/m ³
6	Pb	1.5ug/m ³





- c) Water Quality: There is no liquid waste discharge from this mining activity which is likely to be polluted the water. The rainwater flow the slope of the area and joins to seasonal na, located in NW side of the area.
- d) Noise Levels: The mining will be carried out with the help drilling, blasting (occasionally) and excavator. So, there are chances for noise generations and the noise levels will be maintained within the permissible limits as detailed below.

Permissible noise exposure for different period of time is given below:

Sl. No	Duration per day (Hrs)	Sound level dBA
1	1/8	110
2	1/4	110
3	1/2	105
4	1	100
5	2	95
6	4	90
7	8	85
8	16	80

- e) Vibration Levels: The mining activity will be carried out with the help of drilling and blasting (occasionally). So, there are chances for ground vibrations. Since there are no permanent structures in the vicinity of the area, there will not be any impact due to vibrations.
- f) Water Regime: Since the mining activity will be carried out up to a depth of 24 m from top of the hill, no water regime is disturbed. The water table is available at a depth of more than 60 m from surface at foothills of the applied area.
- g) Acid Mine Drainage: No acid water will be discharged from mine workings.
- h) Surface Subsidence: The workings will be carried out to a depth of 24m (Max) from top of the hill. So, there are no chances for surface subsidence due to this mining activity.
- i) Socio-Economics: The villages falling within the buffer zone are mainly depending upon agriculture. There will be no adverse effect on their socio- economic environment besides; mining gives additional income to the labourers.
- j) Historical monuments etc.: There are no historical monuments or historical importance places within or in the vicinity the lease area.
- k) Bio-Diversity: The applied lease area belongs to stony waste, located in the forest and it does not consist of much flora. But the slopes are covered by the moderate plants. There is no report on existing of any wild animals in the area.
- 3 Progressive Reclamation Plan: Details of mined out area and its reclamation is detailed below.
- i) Mined-Out Land: By the end of first five years plan period about 0.9193 Ha will be mined out. In balance area, about 0.7593 Ha will be used for waste dumping. By the end of the life of the mine about 1.9438 Ha will be used for excavation of the mineral. So, no backfilling is proposed for this first five years period. The land use pattern for first five years plan period is detailed below.

The progressive land use pattern for first five years of the lease period is detailed below.

Year	Land degradation at the beginning Ha	Additional area required (Ha)	Total Area (Ha)	Reclamation in the year (ha)	Degraded area at end of the year (Ha)
1 st Year	0	0.2003	0.2003	Nil	0.2003
2 nd Year	0.2003	0.1886	0.3889	Nil	0.3889
3 rd Year	0.3889	0.2474	0.6363	Nil	0.6363
4 th Year	0.6363	0.1430	0.7793	Nil	0.7793
5 th Year	0.7793	0.1400	0.9193	Nil	0.9193

The land degradation in subsequent five years of the lease period:

Based on present data regarding the thickness of the mineral, the life of the mine is estimated as 14 years. However, the 14 year workings will give the clear picture of the mineral thickness where the mineral is continuing further depth or not. If the mineral is not continued further depth of 14 year workings of the lease period, the waste material will be re handled for backfilling of the worked-out pit at the end of the life of the mine. The mineral available at the bottom of the pit will be excavated during 2nd and 3rd five years lease period as detailed below.

Year	Land degradation at the beginning Ha	Additional area required (Ha)	Total Area (Ha)	Reclamation in the year (ha)	Degraded area at end of the year (Ha)
In 9 years	0.9193	1.0245	1.9438	Nil	1.9438

In case of Abandoned Quarries / Pits, proposal for uses Reservoir, size, water holding capacity and its Utilization: During this life period, the quarry workings will cover an area of 1.9438 Ha to a max. depth of 34 m from top of the hill. Hence, the mineral available at the bottom of the working pit will be excavated in 2nd & 3rd five years lease period.

Plantation: A green belt will be developed along lease boundary on Eastern side of the area. In every year 50 plants of local species will be planted over a length of 50 m and at 2m interval. The details of year wise plantation are furnished below.

Year	Area proposed for plantation	Plants proposed For the year	Cost for plantation
1 st Year	50m x 2m: 100 m ²	50Nos of local species	Rs6000/-
2 nd Year	50m x 2m: 100 m ²	50Nos of local species	Rs6000/-
3 rd Year	50m x 2m: 100 m ²	50Nos of local species	Rs6000/-
4 th Year	50m x 2m: 100 m ²	50Nos of local species	Rs6000/-
5 th Year	50m x 2m: 100 m ²	50Nos of local species	Rs6000/-
Total	0.0500 Ha	250 Plants	Rs30,000/-

- ii) **Topsoil Management:** The weathered rock mixed with soil is occurring in this area. This type of waste will be stacked separately in this plan period and it will be used for backfilling at the end of the life of the mine.
- iii) **Tailings Dam Management:** There are no tailing dams located in and around the area.
- iv) **Disaster Management and Risk Assessment:** The mines manager/ mine owner will take necessary action as per statutory requirement, if any disaster occurs in the mine.

- v) Care and maintenance during temporary discontinuance The applicant will take proper care and maintenance during temporary discontinuance of mining operations.

Item	Details	Proposed	Actual	Remarks
Dump Management	Area afforested (ha) No. of saplings planted cumulative No of plants cost including watch and care during the year	No plantation is proposed on waste dumps because the waste will be used for backfilling at the end of the life of the mine i.e. after 14 Y.	Nil	---
Management of Worked out Benches	Area available for rehabilitation (specify) No of saplings planted in the year. Cumulative no of plants. Any other method of rehabilitation (specify) Cost including watch and care during the year.	No mined area will be formed in 1 st five years. Part of the pit will be backfilled at the end of the life of mine & remaining pits will be used for rain waste harvesting in next lease period.	Nil	--
Reclamation & Rehabilitation by back filling	Void available for Backfilling (L x B x D) pit wise Void filled by waste/tailings. Afforestation on the backfilled area. Rehabilitation by making water reservoir Any other means.	No backfilling is proposed for this lease period.	Nil	---
Rehabilitation of waste Land within the lease	Area available(ha) Area rehabilitated Method of rehabilitation	No waste land is available in this lease area. Plantation will take up Along boundary.	500 m ² area will be Planted in five years.	---

vi) Financial Assurance:

As per the G. O.Ms. No. 53, Dt: 27-02-2019, the financial assurance to be submitted to the concern ADMG in the form of Bank Guarantee from a Nationalized Scheduled Bank, to a minimum amount of rupees fifty thousand for the quarry lease granted below 5.000 Ha and rupees ten thousand per Hect or part thereof for the quarry lease granted 5.000 Hects and above. Since the applied lease area is less than 4.82 Ha., the BankGuarantee will be submitted to the ADMG, Chittoor for minimum amount of Rs50,000/- at the time of execution of the quarry lease.

For M/s Sri Vaishnavi Granites

Signature of the Applicant

Signature of the RQP

(Y.THIMMAIAH)
(RQP/DMG/AP/11/2020)

The Mining Plan / Schems is Approved subject to the conditcns & stlputations indicated in the Mining Plan / Scheme Approved letter

No.: 2629 / MR / BG / DD - (TR) 2021

Date: 25/11/2021

APPROVED
Deputy Director of Mines & Geology
Chittoor.

GOVERNMENT OF ANDHRA PRADESH
FOREST DEPARTMENT

Rc.No.1968/2019/TO,
Dated: 26.05.2021

Sri S. Ravi Shankar, SFS,
Divisional Forest Officer



O/b the Divisional Forest Officer,
Chittoor West Division, Chittoor.

Sub	:	APFD - F.C.Act. 1980 - Proposals for diversion of 4.82 Ha. Forest Land in Compt.No.227 of Basavapalli RF Chittapara beat of Chittoor West Division, Gudipala (M), Chittoor District Filed by M/s. Sri Vaishnavi Granites, Hyderabad Proptx: Smt. Edavalli Akhila W/o. B.S. Nithin Kumar Reddy - Proposals submitted for approval- Further information called for - Reg.
Ref	:	1. Prl. Chief Conservator Forests(HoFF), AP. Guntur Rc.No. EFS02-15029/20/2020-FCA.1, dt: 27.04.2021. 2. This office Rc.No.1968/2019/TO, dt.11.06.2021. 3. Prl. Chief Conservator Forests(HoFF), AP. Guntur Rc.No. EFS02-15029/20/2020-FCA.1(i), dt: 09.07.2021. 4. Prl. Chief Conservator Forests(HoFF), AP. Guntur Rc.No. EFS02-15029/20/2020-FCA.1, dt: 03.08.2021 addressed to the Director of Mines & Geology, Ibrahimpatnam.

శ్రీ శ్రీ

Please go through the instructions of PCCF in the reference 3rd & 4th cited, and take action and submit the following information for compliance to the PCCF.

1. Revised CA scheme proposals from Divisional Forest Officer Anantapuramu as per check slip dated. 9.7.2021.
2. Approved Mining plan from the competent authority of Mines & Geology Department as per check slip dated. 8.8.2021.

Submit the above information's as early as possible for submission of compliance report to the PCCF AP Guntur for further action in the matter.

To
M/s Sri Vaishnavi Granites,
Proptx: Smt. Edavalli Akhila
Sri Vasista Apurva, 8-2-350/3/2, 501,
Road No.3, Banjara Hills, Hyderabad.

Divisional Forest Officer
Chittoor West Division, Chittoor
16/8/21

ANNEXURE-I

GOVERNMENT OF ANDHRA PRADESH
FORM -"P"
Application of Quarry Lease for Granite

Dated 07th September, 2019

Received at _____
On _____

Initial of the receiving officer

To
The Director of Mines & Geology,
Ibrahimpatnam, VUJAYAWADA.

(Through the Assistant Director of Mines & Geology, Chittoor)

Sir,

1. I request that a quarry lease under the A.P.M.M.C Rules, 1966 may be granted to me.

A sum of Rs. 12,500/- and demand draft for Rs.1,25,000/- being the fee in respect of this application and deposit respectively payable under sub rule (5-a) of rule 12 vide Challan No.31144883202019, dated 07-09-2019 and Challan No. 31144861592019, dated 07-09-2019 at State Bank of India, Chittoor.

2. The required particulars are given below:

- i. Name of the Applicant with complete address and status of the Applicant : M/s. SRI VAISHNAVI GRANITES,
Prop: Smt EDAVALLI AKHILA,
W/o. NITHIN REDDY,
Sri Vasista Apurva, 501, #8-2-350, 2, Banjara Hills Road No.3, Opp: MJIT Green Valley, Banjara Hills, HYDERABAD – 500034 (Telangana). PAN No.AAWPE1191L, A-;55214895399; Cell No: 9000352266. Email :- nithinreddybs@gmail.com
- ii. Is the applicant a private individual/co-operative/ Firm/ Association/ Private Sector undertaking /Joint Sector under taking or any other. : Firm
- iii. In case applicant is: Indian
- a. An individual, his Nationality, Qualification and experience related to quarrying. : Does not arise
- b. A company an attested copy of the certificate of registration of the company shall be enclosed. : Does not arise
- c. A firm or association, the Nationality of all the partners of the firm or members of the association : Does not arise
- d. A co-operative, Nationality of Non-India Members, if any along with place of registration and copy of the certificate of registration : Does not arise

Contd.....2



: 2 :

3. Profession or nature of business of the applicant : Granite Quarrying and Sales
4. Particulars of documents appended :
- a. Mineral Dues Clearance Certificate : Does not arise. Since the applicant company is not having any arrears to the Government.
- b. Affidavit in lieu of Mineral Dues clearance Certificate, subject to the production of mineral dues clearance certificate with in the period of 90 days of making the application : Affidavit enclosed
- c. Affidavit when not holding any quarry lease : Affidavit enclosed
5. Mineral which the applicant intends to quarry : Black Granite
6. Period for which quarry lease is required : 20 Years
7. Extent of the area, for which quarry lease is required : 4.900 Hectares
8. Details of the area in respect of which quarry lease is required :

DISTRICT	MANDAL	VILLAGE	C.NO.	AREA
CHITTOOR	GUDIPALA	Vengamanayunikandiga R.F., Chittoor West Division, Chitapara Beat	227	4.900

9. Brief description of the area with particulars reference to the following
- a. Does the applicant have surface rights over the area for which is making an application for grant of quarry lease : Forest Land
- b. If not, has he obtained the consent of the owner, and the occupier of the land for undertaking quarrying operation : Forest Land
10. a. A copy of village map which is not in less scale than village map showing the area applied and situation of the area in respect of natural features such as streams or lakes. : Forest Land
Sketch to scale with the particulars enclosed
- b. In the case of village area the name of the village, khasra number, the area in Hect. of each field or part hereof applied for : Vengamanayunikandiga R.F., Chittoor West Division, Gudipala Mandal, C.No: 227, Chittoor District
Extent : 4.900 hectares.

Contd...3



: 3 :

- c. In case the area applied for is under forest, : Yes
then the following particulars be given
11. In case the area applied for this under forest then the following particulars are to be given
- a. Forest Division Block and Range : Chittoor West Division
Chittoor West Range
- b. Legal Statues of the Forest (namely : Vengamanayunikandiga R.F
reserved, protected, unclassified etc.,
12. Particulars of the area mineral wise in each state duly supported by an affidavit for which the
applicant and any person joint in interest with him
- a. Already holds under quarry lease : Affidavit Submitted
- b. Has already applied for, but not granted : Affidavit Submitted
- c. Being applied for simultaneously : - No -
13. Nature of Joint in interest if any : --
14. a. Does the applicant hold a prospecting : No
licence over the area mentioned at item.9
above.? If so, give its numbers and date of
grant and the date when it is due to expire
- b. Has the applicant carried out the prospecting : Does not arise
operation over the area under P.L and send
his report to the State Govt. if not, state
reasons for not doing so
- c. Nature of the land chosen for dumping over : Within the leased area.
burden/waste and failings (that is type of
land whether agricultural, grazing land,
barren, saline land etc.,) and whether
proposed site has been shown on the mine
working plan. Give also the extent of area
in hectares set apart for dumping of waste
and failings
15. A Report giving the details of prospecting : --
carried out in the area together with
assessment of the ore reserves, geological
plans, results of chemical analysis of the
representative samples and bore holes and
logs
16. Manner in which the Mineral raised is to be
utilized
- a. i. If for captive use, the location of plant : For sale
and industry.
- ii. For sale to indigenous consumption : --

Contd.....4

: 4 :

- b. If for export to foreign countries
- i. Names of the countries to which it is likely to be exported where the name is being setup on 100% export oriented or tied up basis. :
- ii. Whether Minerals will be exported in raw form or after processing. Also indicate the state of processing, whether intermediate state or final state of the end product. : Rough Blocks
- c. If it is to be used with in the country, indicate the industries in which it would be used. Whether it will be supplied in raw form or after processing. :
17. i. Financial resources of the applicant : Self investment
- ii. Anticipated yearly financial investments during the Course of quarry construction and aggregate investment upto the state of commencement of commercial production. : Rs.20,00,000-00
18. The application form should be accompanied by a statement of the salient features of the scheme of quarrying. This should be generally on the lines of the project at a glance given in a quarrying feasibility report including features relating to the protection of environment. : Prospecting report will be submitted within a year

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

Place : Chittoor
Date : 07-09-2019

Yours faithfully,
For M/s. Sri Vaishnavi Granites,


(EDAVALLI AKHILA)
Proprietrix

Note

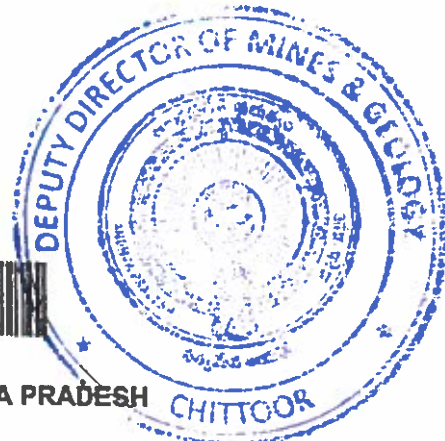
1. If the application is signed by any authorized agent of the applicant then the power of attorney should be attached.
2. The application should relate to one compact area only except when the application for Q.L is for an area already held under P.L by the applicant.





APTC FORM-10

GOVERNMENT OF ANDHRA PRADESH



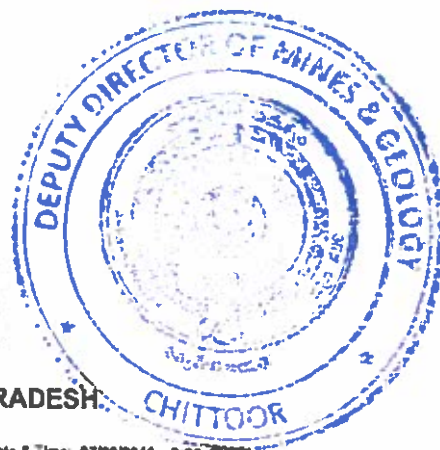
Challan No:	31144863202019	Challan Creation Date & Time:	07/09/2019 3:02:50 PM
Treasury/PAO Code:	1102	STD:	STD-CHITTOOR
CFMS Transaction ID:			30874854032019
Major Head:	0853		Non-Ferrous Mining and Metallurgical Industries
Sub-Major Head:	00		Not Applicable
Minor Head:	102		Mineral Concession Fees, Rents and royalties
Group Sub-Head:	00		Not Applicable
Sub-Head:	81		Other Receipts
Detailed Head:	000		Not Applicable
Sub-Detailed Head:	000		Not Applicable
Charged/Voted:	V		
Non-Contingency/Contingency:	N		
Amount Rs:	12500.00		
Amount in words Rs:	Twelve thousand five hundred only		
Purpose:			APPLICATION FEE AND SURVEY CHARGES
Remitter's Name & Address:			SRI VAISHNAVI GRANITES No.501, # 8-2-350, 2, Banjara Hills, Road No.3, Hyderabad
DDO Code:			11021307001 ADM INS.GEO. CHITTOOR
Status:			Payment Transaction Successful
Bank Reference Number:			CPU4984481
Payment Date:			07/09/2019
Received Rs:	12500.00		

Note: This Challan does not need endorsement of the treasury



APTC FORM-10

GOVERNMENT OF ANDHRA PRADESH



Challan No: 31144881582019

Challan Creation Date & Time: 07/09/2019 3:06:45 PM

Treasury/PAO Code:1102

STO:STO-Chittoor

CFMS Transaction ID:

30674912802019

Major Head:

8443 Civil Deposits

Sub-Major Head:

00 Not Applicable

Minor Head:

103 Security Deposits

Group Sub-Head:

00 Not Applicable

Sub-Head:

01 Security Deposits

Detailed Head:

000 Not Applicable

Sub-Detailed Head:

000 Not Applicable

Charged/Voted:

V

Non-Contingency/Contingency:

N

Amount Rs:

125000.00

Amount in words Rs:

One lakh twenty five thousand only

Purpose:

DEPOSIT FEE

Remitter's Name & Address:

BRI VAISHNAVI GRANITES
501, #8-2-350, 2, Banjara Hills, Road No.3,
Hyderabad

DDO Code:

11021307001
ADM INS.GEO. CHITTOOR

Status:

Payment Transaction Successful

Bank Reference Number:

CPU4985297

Payment Date:

07/09/2019

Received Rs: 125000.00

Note: This Challan does not need encashment of the treasury



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

S.No. Rs. 20 Date 31.8.2019

Sold To: K. Nithin Reddy W/o Nithin Reddy

For Whom: Hyderabad

80AA 127658

S.E. ABDUL KADHAR
LICENCED STAMP VENDOR
L.No: 10-11-012/2012
R.No: 10-11-013/2018
28-445, Opp: Hamza Mosque,
Ganganapalli, Chittoor-517 001.
Cell : 8801646354

AFFIDAVIT

I, EDAVALLI AKHILA, W/o. Nithin Reddy aged about 29 years, Proptx: M/s. Sri Vaishnavi Granites, residing at Sri Vasista Apurva, 501, #8-2-350, 2, Banjara Hills Road No.3, Opp: MIJT Green Valley, Banjara Hills, Hyderabad, Telangana - 500034 do here by solemnly affirm and state as follows

I state that I do not possess any Mining leases, Prospecting Licences or any Quarry leases anywhere in the state of Andhra Pradesh.

As such I am not having any Mineral revenue to the State Government as well as central Government in my name.

This affidavit is filed in place of Mineral Revenue Clearance Certificate required under A.P.M.C.Rules, 1966

Place: Chittoor.
Date: 07-09-2019

For M/s. Sri Vaishnavi Granites

(Edavalli Akhila)
Proprietrix

The deponent has sworn & come on this day of 07th September, 2019



G.R. GIRIDHARAN, M.COM., BL
ADVOCATE & NOTARY
GOMS. No : 404-S. No : 114
10-297, D.I. Road
CHITTOOR - 517001 (A.P.)



ఆంధ్రప్రదేశ్ ఆంధ్ర ప్రదేశ్ ANDHRA PRADESH

80AA 127657

S.No. 134 Rs. 20 Date 21.8.2019

Sold To: Edavalli w/o Nithin Reddy

For Whom: Edavalli

AFFIDAVIT

I, EDAVALLI AKHILA, W/o. Nithin Reddy aged about 29 years, Proptr: M/s. Sri Vasista Apurva, 501, #8-2-350, 2, Banjara Hills Road No.3, Opp: MJP Hills, Hyderabad, Telangana - 500034 do hereby by solemnly affirm and state as follows

S.E. ABDUL KADHAR
LICENCED STAMP VENDOR
L.No: 10-11-012/2012
R.No: 10-11-013/2018
#28-445 Opp: Hamza Mosque,
Chittoor, Chittoor 517001.
Cell: 9801945354

I am Indian National by Birth

I am newly entering in the Mining field

As such I am not having any Mining leases / Quarry leases anywhere in the State of Andhra Pradesh.

As such I am not having any Income Tax dues to the Government of Andhra Pradesh or Central Government of India.

Now I am filling this affidavit in the place of ITCC as required under APMMC Rules, 1966.

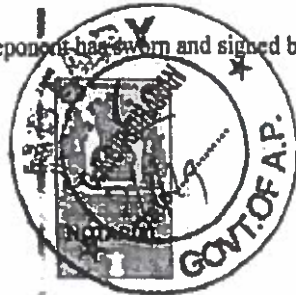
I take oath and declare that the facts stated above true and correct to the best of my knowledge, belief and I am not concealed or misrepresented the facts mentioned in the affidavits

Place: Chittoor.
Date: 07-09-2019

For M/s. Sri Vaishnavi Granites

Edavalli
(Edavalli Akhila)
Proprietrix

The deponent has sworn and signed before me on this day of 07th September, 2019



G.R. GIRIDHARAN, M.COM., BL
ADVOCATE & NOTARY
GOMS. No : 404-S. No : 114
10-297, D.I. Road
CHITTOOR - 517001 (A.P.)

ANNEXURE-II



- 1) Picture shows the contact zone between the Grey Granite and Black Granite in Comp. No.277.



- 2) Picture shows the sheet rock of Black Granite exposed on top of the hill, located in Comp. No.277.



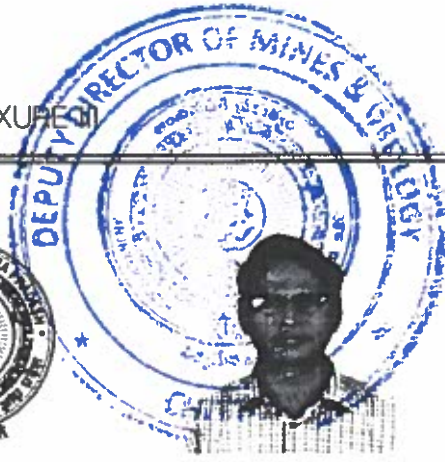
- 3) Picture shows the Boulders of Black Granite exposed on top of the hill, located in Comp. No.277 of Basivipalli R.F, Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P. A/o M/s Sri Vaishnavi Granites.

Pictures of the boundary pillars erected to the applied Q.L. area of M/s Sri Vaishnavi Granites for Black Granite in Comp. No. 277 of Basivipalli R.F, Chittapara Beat of Chittoor West Range 2, Division, A.P.





ANNEXURE III



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

**CERTIFICATE OF REGISTRATION
AS QUALIFIED PERSON TO PREPARE MINING PLAN
[Under Rule 14(2) of Granite Conservation and Development Rules 1999]**

Sri Y. Thimmaiah S/o Sri.Y. Lingappa, F.No.61205, Indu Fortune Fields Gardenia KPHB-13th Phase, Hi-tech City – JNTU-Road, Hyderabad-500085. 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.

Registration Number is :

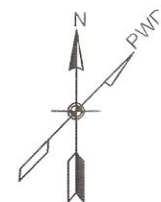
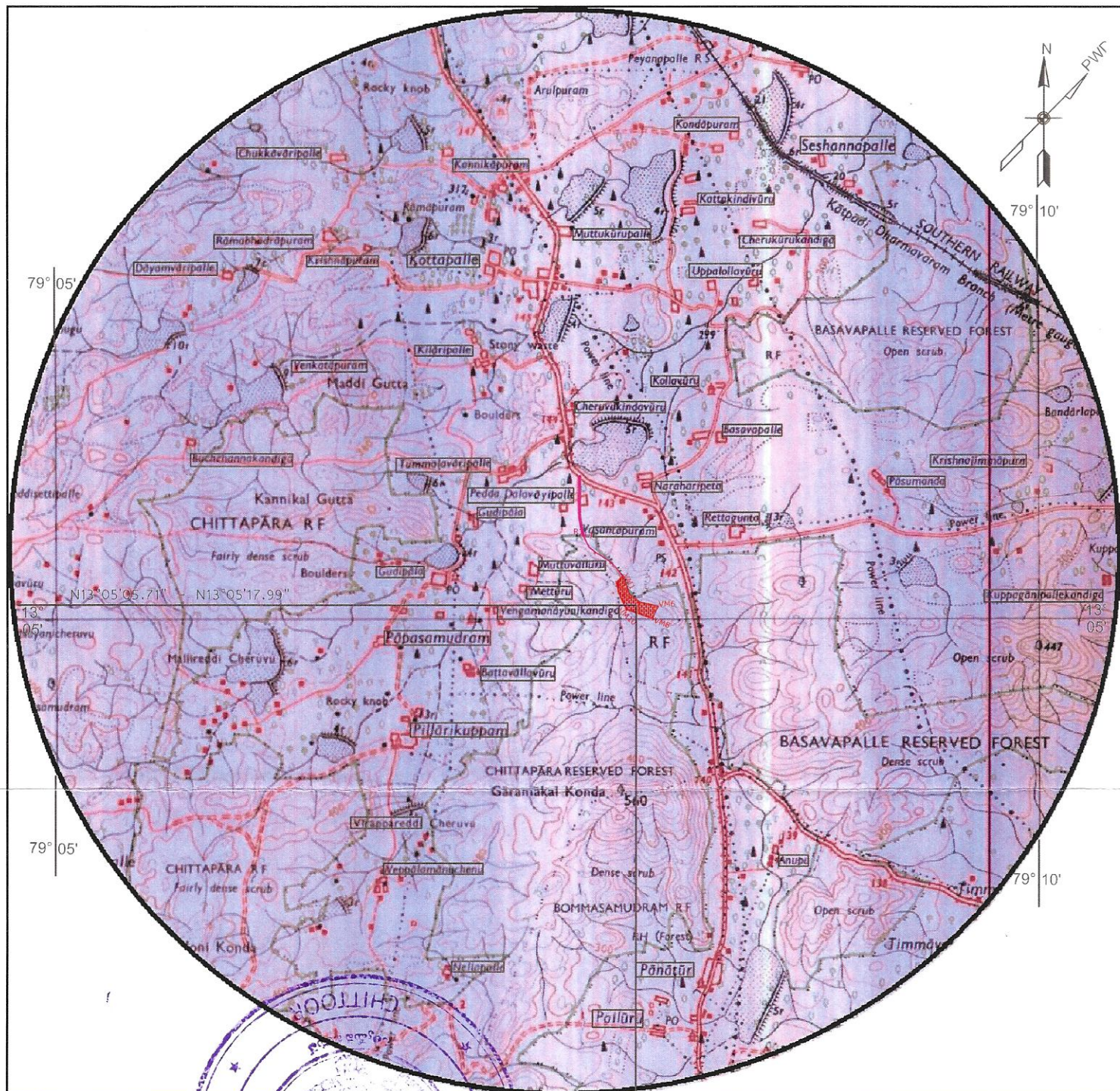
RQP/DMG/AP/11/2020

This Recognition is valid for a period of 10 years with effect from 07.05.2020 and valid upto 06.05.2030.

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: Ibrahimpatnam
Date :10.07.2020.


Director of Mines & Geology



INDEX

Symbol	Description
	APPLIED Q. L. AREA
	CONTOUR LINE
	PUBLIC ROAD
	WATER COURSE
	TANKS
	VILLAGES
	FOREST LAND
	CULTIVATION LANDS
	5Km RADIUS

Co-Ordinates of Applied Area (DATUM: WGS 84) E79°07'46.20" - E79°07'58.20"

Name	N-Latitude	E-Longitude
VM-1L-7	13.0883771	79.13004899
VZ-1	13.0882538	79.13004121
VM-2	13.0874203	79.13035355
VZ-2	13.0873705	79.13030515
VM-3	13.0868703	79.13054965
VZ-3	13.0868295	79.13049072
VM-4	13.0862299	79.13137014
VZ-4	13.0861670	79.13133977
VM-5	13.0860991	79.13205066
VZ-5	13.0860231	79.13203653
VZ-6	13.0858620	79.13275212
VM-6	13.0859098	79.13284988
VM-7	13.085419	79.13261159
VZ-7	13.0854275	79.13254256
VM-8	13.0849200	79.13241011
VZ-8	13.0850052	79.13237264
VM-9	13.0852526	79.13144738
VZ-9	13.0853191	79.13146406
VM-10	13.0856611	79.13031198
VZ-10	13.0857134	79.13036904
VM-11	13.0862004	79.13004211
VZ-11	13.0862373	79.13010082
VM-12	13.0869781	79.12967515
VZ-12	13.0870208	79.12973758
VM-13	13.0878297	79.12949987
VZ-13	13.0878079	79.12957408

SIGNATURE OF APPLICANT

(Signature)

SIGNATURE OF THE R. Q. P.

(Signature)

MINING PLAN FOR BLACK GRANITE

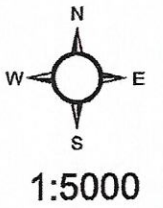
Over an extent of 4.82 Ha, in Compartment No.227 of Basivipalli R.F, Chittapara Beat, Chittoor West Range & Chittoor West Division, A.P.

LOCATION CUM KEY PLAN

Applicant : M/s Sri Vaishnavi Granites

SCALE : 1 : 50.000
T.SHEET No. 57 / O 4
PLATE- 1

Map Showing the Diversion of Forest Land in Comp.No-227 of Basivipalli RF,Chittapara Beat, Chittoor West Range,Chittoor West Division in f/o M/s Sri Vaishnavi Granites.



S no	Name	Northing	Easting	Elevation	Latitude	Longitude
1	VM-1 L-7	1447658.441	297258.895	357.292	13.08837706	79.13004399
2	VZ-1	1447644.827	297255.238	360.648	13.08825377	79.13001120
3	VM-2	1447552.342	297291.686	369.150	13.08742034	79.13035355
4	VZ-2	1447546.869	297286.395	369.845	13.08737053	79.13030515
5	VM-3	1447491.332	297312.504	378.750	13.08687034	79.13054965
6	VZ-3	1447486.859	297306.079	378.654	13.08682949	79.13049072
7	VM-4	1447419.817	297400.967	381.486	13.08622991	79.13137014
8	VZ-4	1447412.883	297397.622	383.096	13.08616702	79.13133977
9	VM-5	1447403.910	297474.661	378.442	13.08609106	79.13205066
10	VZ-5	1447396.403	297473.072	378.567	13.08602311	79.13203653
11	VZ-6	1447378.003	297550.551	370.716	13.08586198	79.13275212
12	VM-6	1447383.220	297561.193	368.881	13.08590984	79.13284988
13	VM-7	1447329.099	297534.948	380.433	13.08541896	79.13261159
14	VZ-7	1447330.105	297527.467	380.364	13.08542754	79.13254256
15	VM-8	1447274.054	297512.689	365.743	13.08491999	79.13241011
16	VZ-8	1447283.507	297508.694	367.719	13.08500515	79.13237264
17	VM-9	1447311.620	297408.546	366.110	13.08525255	79.13144738
18	VZ-9	1447318.967	297410.409	368.869	13.08531908	79.13146406
19	VM-10	1447357.727	297285.738	360.676	13.08566106	79.13031198
20	VZ-10	1447363.472	297291.970	361.965	13.08571339	79.13036904
21	VM-11	1447417.620	297256.911	367.154	13.08620044	79.13004211
22	VZ-11	1447421.655	297263.308	368.273	13.08623733	79.13010082
23	VM-12	1447503.959	297217.748	373.970	13.08697813	79.12967515
24	VZ-12	1447508.632	297224.554	373.396	13.08702082	79.12973758
25	VM-13	1447598.322	297199.434	368.650	13.08782974	79.12949987
26	VZ-13	1447595.841	297207.465	369.984	13.08780786	79.12957408
27	R-1	1448016.067	296909.262	319.907	13.09158583	79.12679598
28	L-1	1448011.803	296917.786	319.653	13.09154786	79.12687487
29	L-2	1447910.790	296962.288	327.897	13.09063790	79.12729208
30	R-2	1447905.409	296957.008	327.660	13.09058892	79.12724376
31	L-3	1447862.453	297017.916	330.101	13.09020476	79.12780826
32	R-3	1447857.572	297013.807	332.848	13.09016038	79.12777071
33	L-4	1447842.225	297051.667	331.790	13.09002421	79.12812082
34	R-4	1447837.364	297048.041	332.114	13.08998003	79.12808773
35	L-5	1447773.315	297150.752	336.125	13.08940804	79.12903909
36	R-5	1447769.925	297145.600	337.241	13.08937706	79.12899182
37	L-6	1447719.579	297204.770	345.983	13.08892600	79.12954079
38	R-6	1447715.400	297200.405	346.082	13.08888793	79.12950083
39	R-7	1447653.280	297253.020	358.169	13.08833002	79.12999018

S no	Name	Area(Ha)
1	Mining Area(Inside)	3.70
2	Safety Zone Area(Inside)	0.80
3	Road Area(Inside)	0.32
Total Area		4.82

Legend	
	DGPS Points
	Mining Area(Inside)
	Safety Zone Area(Inside)
	Road Area(Inside)
	Outside RF
	Compartment Boundary

Note : The Compartment boundary is overlaid and verified with the available GIS layer of GIS Wing.

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

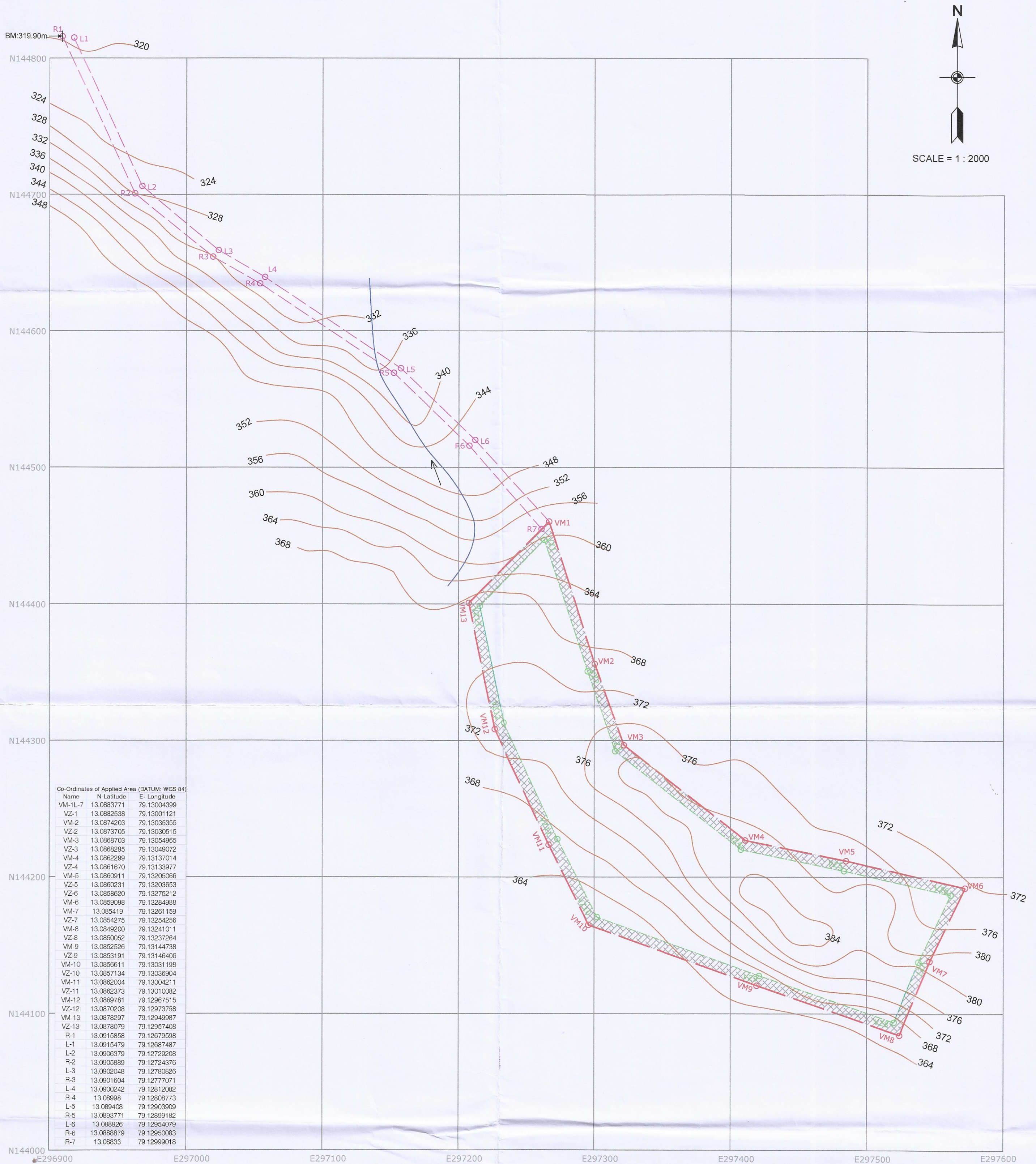
Assistant Conservator of Forests (PMU-II)
O/o Principal Chief Conservator of Forests
Aranya Bhavan, Guntur.

Divisional Forest Officer
Chittoor West Division, Chittoor

FOREST RANGE OFFICER
(GIS), O/o. Pri.CCF (H&FF),
Aranya Bhavan, Guntur.

PLATE-1A

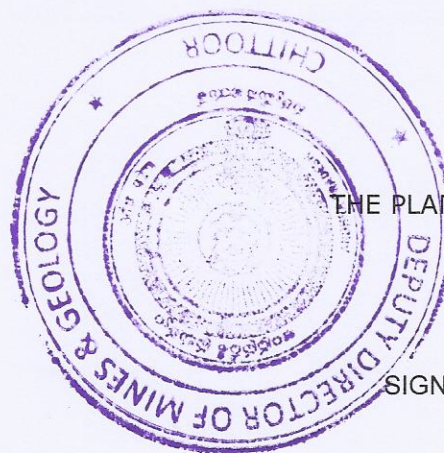
0 125 250 500 750 1,000 Meters



INDEX

Details of the Area Applied For Q.L.

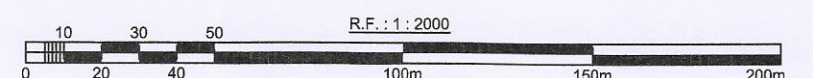
	Safety Zone Area=0.80 Ha
	Mining Area =3.70 Ha
	Approach Road =0.32 Ha
Total Area Applied =4.82 Ha	
	CONTOUR
	BENCH MARK
	SEASONAL NALA



THE PLAN & SECTIONS ARE PREPARED AS PER DGPS SURVEYED SKETCH

SIGNATURE OF THE APPLICANT

Y. THIMMAIAH (R.Q.P.)



MINING PLAN FOR BLACK GRANITE

OVER AN EXTENT OF 4.82 Hects, IN COMPARTMENT No. 227 OF
BASIVIPALLI R.F., CHITTAPARA BEAT,
CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.

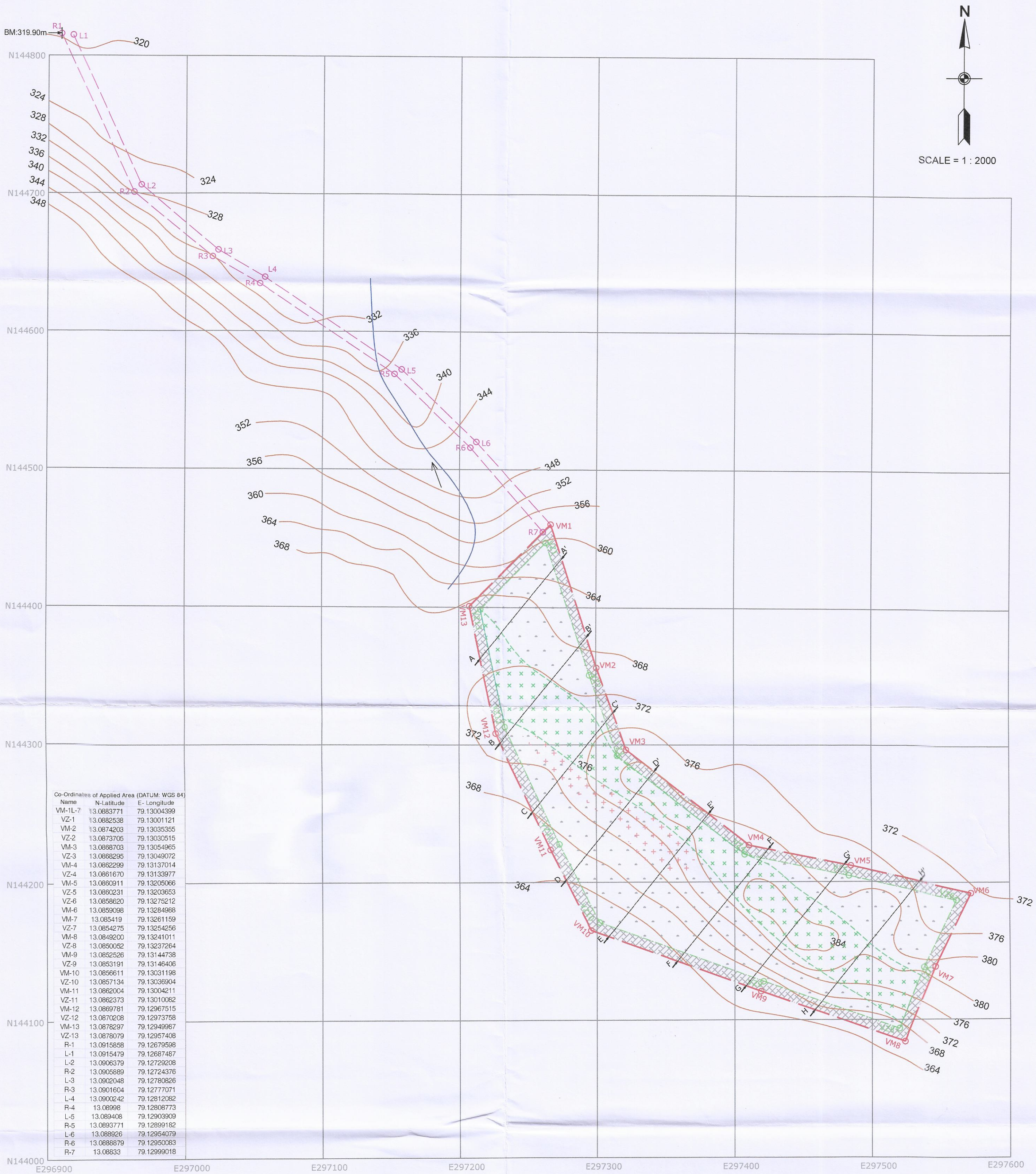
APPLICANT : M/s SRI VAISHNAVI GRANITES

SURFACE PLAN

SCALE : 1 = 2000

CONTOUR INTERVAL: 4 m

PLATE - 2



Co-Ordinates of Applied Area (DATUM: WGS 84)		
Name	N-Latitude	E-Longitude
VM-1L-7	13.0883771	79.13004399
VZ-1	13.0882538	79.13001121
VM-2	13.0874203	79.13035355
VZ-2	13.0873705	79.13030515
VM-3	13.0888703	79.13054965
VZ-3	13.0888295	79.13049072
VM-4	13.0882299	79.13137014
VZ-4	13.0881670	79.13133977
VM-5	13.0880911	79.13205066
VZ-5	13.0880231	79.13203653
VZ-6	13.0858620	79.13275212
VM-6	13.0859098	79.13284988
VM-7	13.085419	79.13261159
VZ-7	13.0854275	79.13254256
VM-8	13.0849200	79.13241011
VZ-8	13.0850052	79.13237264
VM-9	13.0852526	79.13144738
VZ-9	13.0853191	79.13146406
VM-10	13.0856611	79.13031198
VZ-10	13.0857134	79.13036904
VM-11	13.0862004	79.13004211
VZ-11	13.0862373	79.13010082
VM-12	13.0869781	79.12967515
VZ-12	13.0870208	79.12973758
VM-13	13.0878297	79.12949967
VZ-13	13.0878079	79.12957408
R-1	13.0915858	79.12679598
L-1	13.0915479	79.12687487
L-2	13.0906379	79.12729208
R-2	13.0905889	79.12724376
L-3	13.0902048	79.12780826
R-3	13.0901604	79.12777071
L-4	13.0900242	79.12812082
R-4	13.08998	79.12808773
L-5	13.089408	79.12903909
R-5	13.0893771	79.12899182
L-6	13.088926	79.12954079
R-6	13.0888679	79.12950083
R-7	13.08833	79.12999018

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Details of the Area Applied For Q.L.

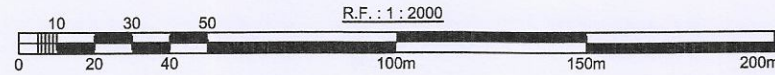
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	Mining Area =3.70 Ha
	Approach Road =0.32 Ha
Total Area Applied =4.82 Ha	
	CONTOUR
	BENCH MARK
	SEASONAL NALA
	SOIL WITH SCREE
	BLACK GRANITE
	GRAY GRANITE



THE PLAN & SECTIONS ARE PREPARED AS PER DGPS SURVEYED SKETCH

SIGNATURE OF THE APPLICANT

Y. THIMMAIAH (R.Q.P.)



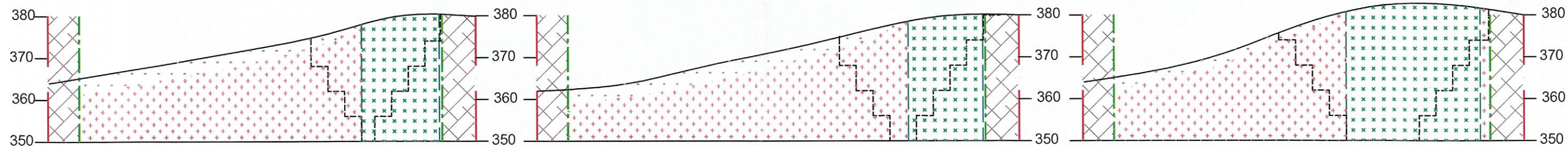
MINING PLAN FOR BLACK GRANITE		
OVER AN EXTENT OF 4.82 Hects, IN COMPARTMENT No. 227 OF BASIVIPALLI R.F., CHITTAPARA BEAT, CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.		
APPLICANT : M/s SRI VAISHNAVI GRANITES		
SURFACE GEOLOGICAL PLAN		
SCALE : 1 = 2000	CONTOUR INTERVAL: 4 m	PLATE - 3



SECTION: A-A'

SECTION: B-B'

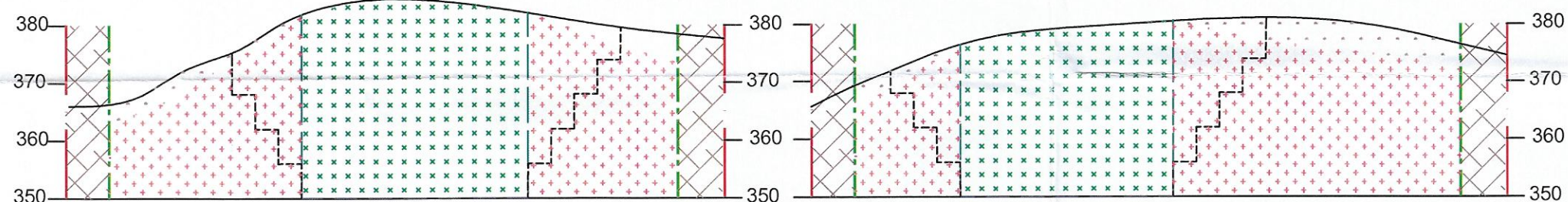
SECTION: C-C'



SECTION: D-D'

SECTION: E-E'

SECTION: F-F'



SECTION: G-G'

SECTION: H-H'

INDEX

	7.5m SAFETY BARRIER
	SOIL COVER
	BLACK GRANITE
	GREY GRANITE
	PROVED ZONE
	ULTIMATE PIT LIMIT



THE PLAN & SECTIONS ARE PREPARED AS PER DGPS SURVEYED SKETCH

SIGNATURE OF THE APPLICANT

Y. THIMMAIAH (R.Q.P.)

MINING PLAN FOR BLACK GRANITE

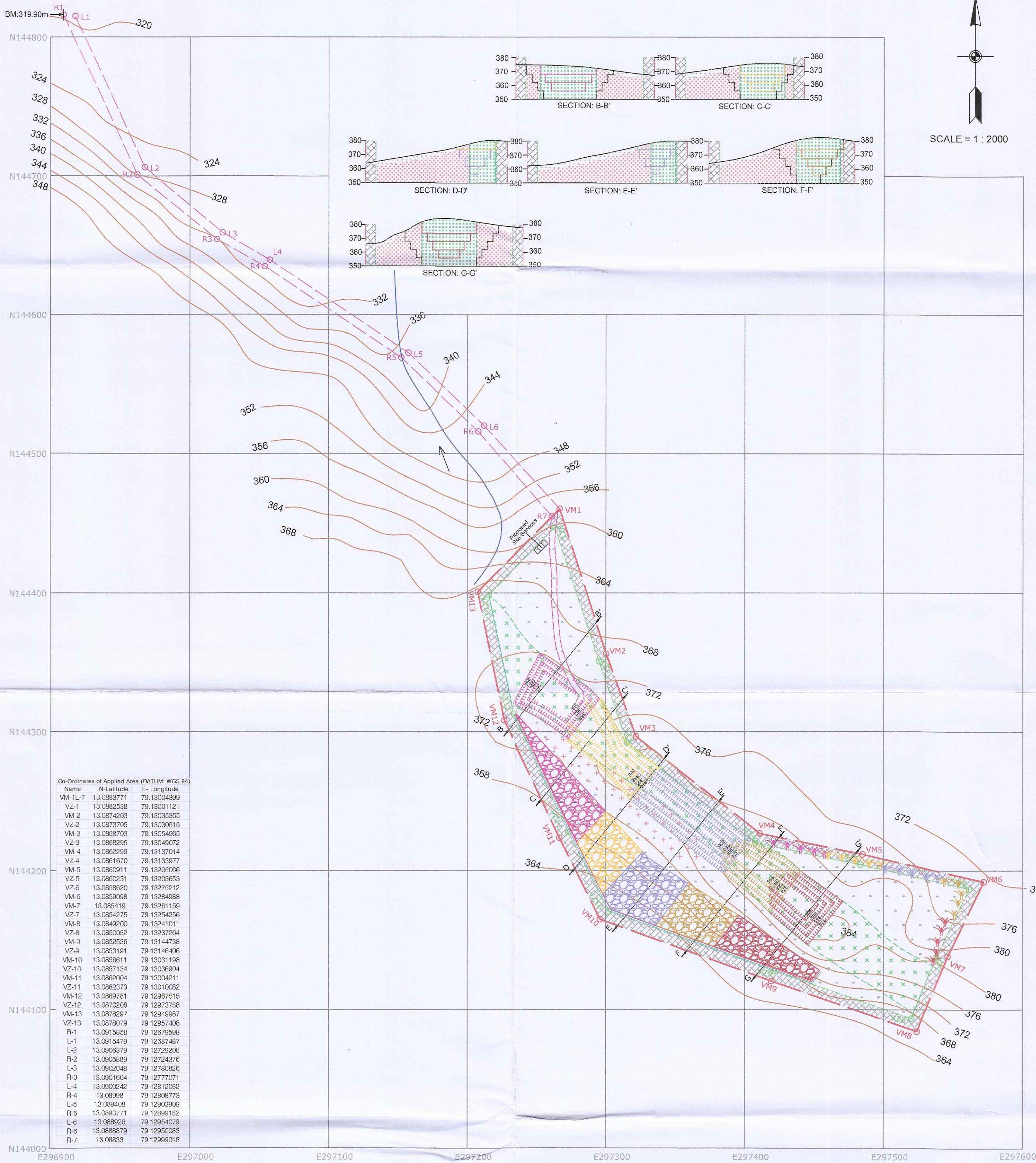
OVER AN EXTENT OF 4.82 Hects, IN COMPARTMENT No. 227 OF
BASIVIPALLI R.F., CHITTAPARA BEAT,
CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.

APPLICANT : M/s SRI VAISHNAVI GRANITES

GEOLOGICAL CROSS SECTIONS

SCALE 1 : 1000

PLATE - 3A



SCALE = 1 : 2000

Co-Ordinates of Applied Area (DATUM: WGS 84)

Name	N-Latitude	E-Longitude
VM-1L-7	13.0883771	79.13004399
VZ-1	13.0882538	79.13001121
VM-2	13.0874203	79.13035355
VZ-2	13.0873705	79.13030515
VM-3	13.0868703	79.13054965
VZ-3	13.0868295	79.13049072
VM-4	13.0862299	79.13137014
VZ-4	13.0861670	79.13133977
VM-5	13.0860911	79.13205066
VZ-5	13.0860231	79.13203653
VZ-6	13.0858620	79.13275212
VM-6	13.0859098	79.13264988
VM-7	13.085419	79.13261159
VZ-7	13.0854275	79.13254256
VM-8	13.0849200	79.13241011
VZ-8	13.0850052	79.13237264
VM-9	13.0852526	79.13144738
VZ-9	13.0853191	79.13146406
VM-10	13.0856611	79.13031198
VZ-10	13.0857134	79.13036904
VM-11	13.0862004	79.13004211
VZ-11	13.0862373	79.13010082
VM-12	13.0869781	79.12967515
VZ-12	13.0870208	79.12973758
VM-13	13.0878297	79.12949987
VZ-13	13.0878079	79.12957406
R-1	13.0915858	79.12679598
L-1	13.0915479	79.12687487
L-2	13.0906379	79.12729208
R-2	13.0905889	79.12724376
L-3	13.0902048	79.12780826
R-3	13.0901604	79.12777071
L-4	13.0900242	79.12812082
R-4	13.08998	79.12808773
L-5	13.089408	79.12903909
R-5	13.0893771	79.12899182
L-6	13.088926	79.12954079
R-6	13.0888879	79.12950083
R-7	13.08833	79.12999018

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Details of the Area Applied For Q.L.

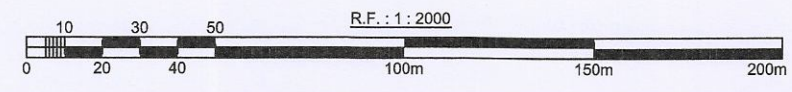
	Safety Zone Area=0.80 Ha
	Mining Area =3.70 Ha
	Approach Road =0.32 Ha
Total Area Applied =4.82 Ha	
	CONTOUR
	BENCH MARK
	SEASONAL NALA
	SOIL WITH SCREE
	BLACK GRANITE
	GRAY GRANITE
	Pro. R.WALL & G. DRAIN

YEAR	PROPOSED WORKINGS	PROPOSED PLANTATION	PROPOSED DUMPING
1st Year			
2nd Year			
3rd Year			
4th Year			
5th Year			



THE PLAN & SECTIONS ARE PREPARED AS PER DGPS SURVEYED SKETCH

SIGNATURE OF THE APPLICANT
Y. THIMMAIAH (R.Q.P.)



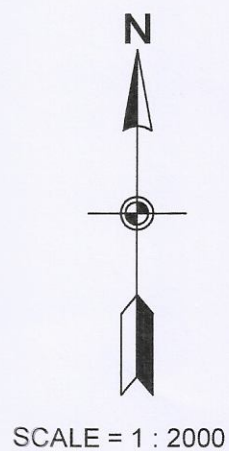
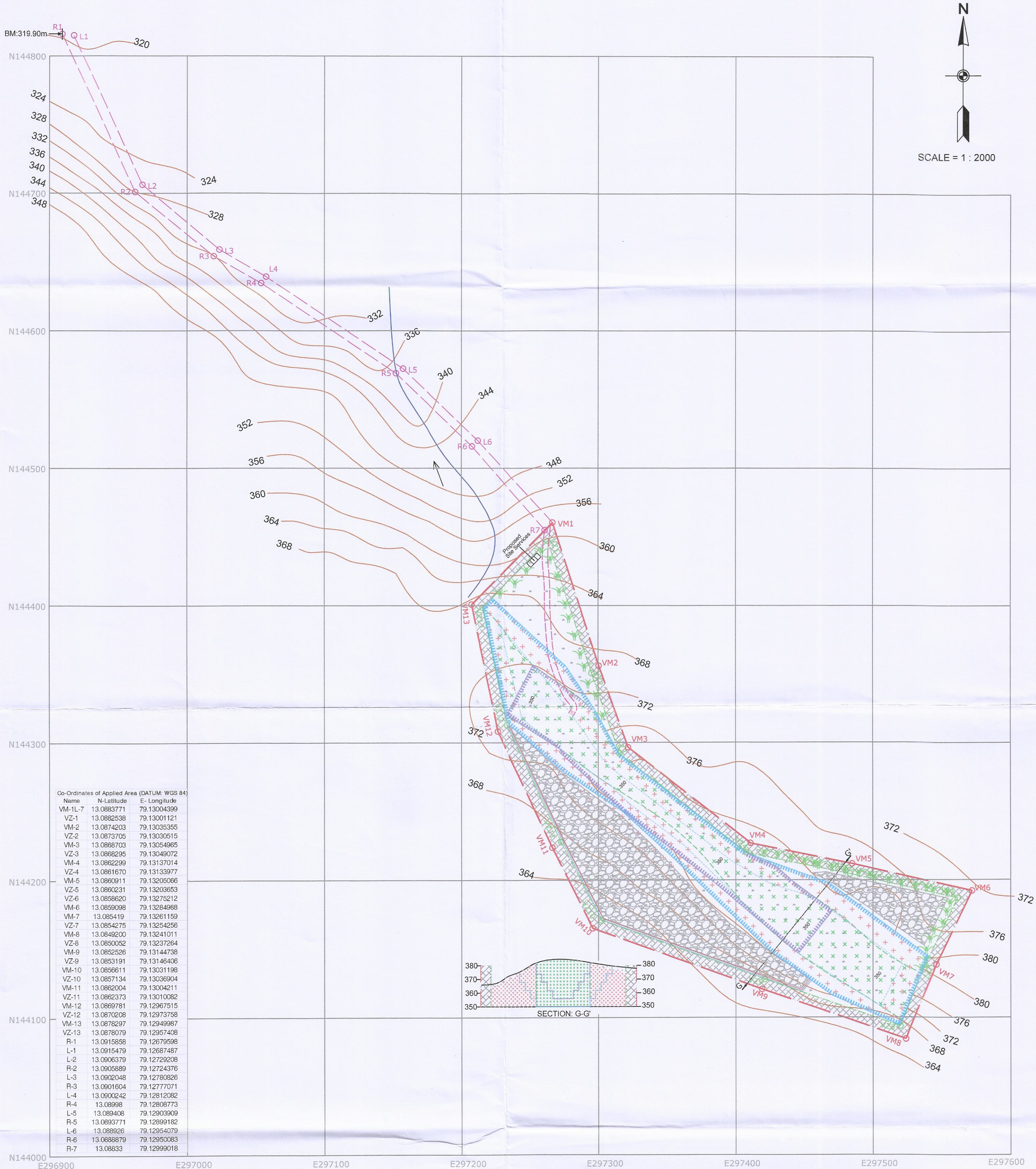
MINING PLAN FOR BLACK GRANITE

OVER AN EXTENT OF 4.82 Hects. IN COMPARTMENT No. 227 OF BASIVIPALLI R.F., CHITTAPARA BEAT, CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.

APPLICANT : M/s SRI VAISHNAVI GRANITES

YEAR WISE WORKING PLAN & SECTION

SCALE : 1 = 2000 CONTOUR INTERVAL: 4 m PLATE - 4



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Details of the Area Applied For Q.L.

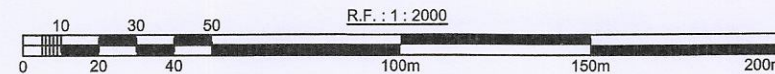
	Safety Zone Area=0.80 Ha
	Mining Area =3.70 Ha
	Approach Road =0.32 Ha
Total Area Applied =4.82 Ha	
	CONTOUR
	BENCH MARK
	SEASONAL NALA
	SOIL WITH SCREE
	BLACK GRANITE
	GRAY GRANITE
	WORKINGS FOR 1st 5 Yrs
	FINAL PIT POSITION
	DUMPING AREA
	PLANTATION
	Pro. R.WALL & G. DRAIN



THE PLAN & SECTIONS ARE PREPARED AS PER DGPS SURVEYED SKETCH

SIGNATURE OF THE APPLICANT

Y. THIMMAIAH (R.Q.P.)



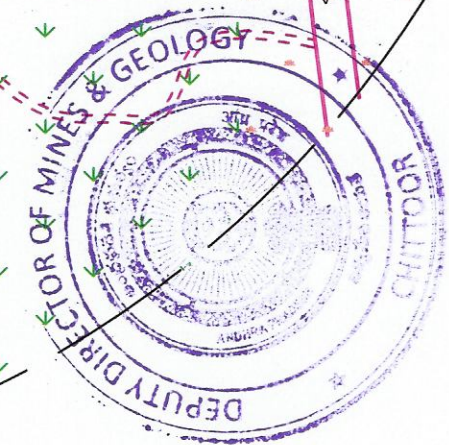
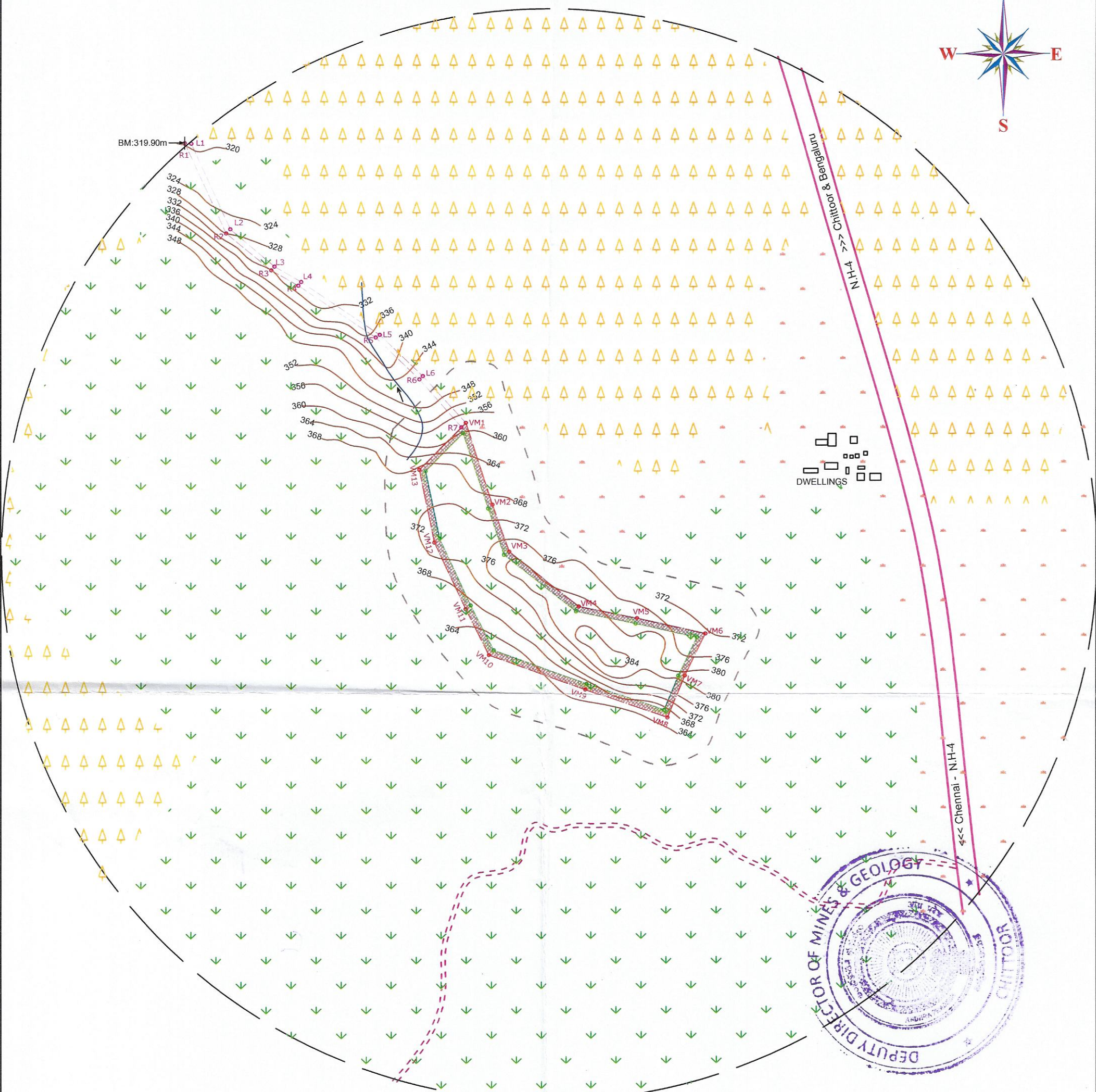
MINING PLAN FOR BLACK GRANITE

OVER AN EXTENT OF 4.82 Hects, IN COMPARTMENT No. 227 OF
BASIVIPALLI R.F., CHITTAPARA BEAT,
CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.

APPLICANT : M/s SRI VAISHNAVI GRANITES

CONCEPTUAL PLAN & SECTION

SCALE : 1 = 2000 CONTOUR INTERVAL: 4 m PLATE - 5



Co-Ordinates of Applied Area (DATUM: WGS 84)		
Name	N-Latitude	E-Longitude
VM-1L-7	13.0883771	79.13004399
VZ-1	13.0882538	79.13001121
VM-2	13.0874203	79.13035355
VZ-2	13.0873705	79.13030515
VM-3	13.0868703	79.13054965
VZ-3	13.0868295	79.13049072
VM-4	13.0862299	79.13137014
VZ-4	13.0861670	79.13133977
VM-5	13.0860911	79.13205066
VZ-5	13.0860231	79.13203653
VM-6	13.0858620	79.13275212
VM-7	13.0854119	79.13261159
VZ-7	13.0854275	79.13254256
VM-8	13.0849200	79.13241011
VZ-8	13.0850052	79.13237264
VM-9	13.0852526	79.13144738
VZ-9	13.0853191	79.13146406
VM-10	13.0856611	79.13031198
VZ-10	13.0857134	79.13036904
VM-11	13.0862004	79.13004211
VZ-11	13.0862373	79.13010082
VM-12	13.0869781	79.12967515
VZ-12	13.0870208	79.12973758
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VZ-13	13.0878079	79.12957408
R-1	13.0915858	79.12679598
L-1	13.0915479	79.12687487
L-2	13.0906379	79.12729208
R-2	13.0905889	79.12724376
L-3	13.0902048	79.12780826
R-3	13.0901604	79.12777071
L-4	13.0900242	79.12812082
R-4	13.08998	79.12808773
L-5	13.089408	79.12903909
R-5	13.0893771	79.12899182
L-6	13.088926	79.12954079
R-6	13.0888879	79.12950083
R-7	13.08833	79.12999018

THE PLAN & SECTIONS ARE PREPARED AS PER APPLIED Q.L. SKETCH

[Signature]

SIGNATURE OF THE APPLICANT

[Signature]

Y. THIMMAIAH (R.Q.P.)

INDEX

DETAILS OF THE APPLIED Q.L. AREA

	SAFETY ZONE AREA: 0.80 Ha
	MINING AREA : 3.70 Ha
	AREA FOR ROAD : 0.32 Ha
TOTAL AREA APPLIED FOR Q.L.: 4.82Ha	
BM 319.90m	BENCH MARK
	CONTOURS

	APPROACH ROAD
	NALA
	R.F. AREA
	AGRICULTURE LANDS
	WASTE LAND
	60 m ZONE
	500 m ZONE

MINING PLAN FOR BLACK GRANITE

OVER AN EXTENT OF 4.82 Hects, IN COMPARTMENT No. 227 OF
BASIVIPALLI R.F., CHITTAPARA BEAT,
CHITTOOR WEST RANGE OF CHITTOOR DIVISION, A.P.

APPLICANT : M/s SRI VAISHNAVI GRANITES

ENVIRONMENT PLAN

SCALE 1 : 5000

CONTOUR INTERVAL: 4 m

PLATE - 6