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 Vasista Mining,
Mg.Ptnr:Sri B.S.Nithin Kumar Reddy,
8-2-350, Banjara Hills Road,
=No.3, Hyderabad-500034.

Lr.No.2584/MP/BG/CTR/2021, dt: 06-40-2021

Sir,

Sub: Mines & Minerals - Application of Mining Nan Filed by M/s.Sri Vasista Mining, Mg.Ptnr:Sri B.S. Nithin Kumar Red dy for Black Granite over an extent of 9.880 Hectares in Compartment No 223 & 227 of Chittapara & Basavapalli RF, Chittor West Division Gudipala Mandal in Chittor District - Approved - Regarding:

Ref: 1. Memo No.2107/D13-1/2020, dated 89 08.2021 of the Director of Mines and Geology, Ibrahimpatnam.

2. Draft Mining Plan submitted on 07.09.2021 filed by M/s.Sri Vasista Mining, Mg.Ptnr:Sri B.S.Nithin Kumar Reddy.

Inspection report submitted by this office Technical Staff.
 This Office Letter No.2584/MP/BG/CTR/2021, dt:24.09.2021.

5. Letter dated:04.10.2021 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 9.880 Hectares in Compartment No.223 & 227 of Chittapara & Basavapalli RF, Chittoor West Division, Gudipala Mandal in Chittoor District filed by M/s.Sri Vasista Mining, Mg.Ptnr:Sri B.S.Nithin Kumar Reddy under Rule 12 of Granite Conservation Development Rules, 1999. This approval is subject to the following conditions.

- 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.
- 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.
- 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.)

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)

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CATEGORY: FULLY MECHANIZED CATEGORY - A
TYPE OF LAND: RESERVE FOREST LAND
Extent: 9.880 Hects

EXTRACTION OF BLACK GRANITE

COMPARTMENT NO.227 & 223, OF BASIVIPALLI & CHITTAPARA R.F., CHITTOOR WEST DIVISION OF GUDIPALA MANDAL, CHITTOOR DISTRICT,

ANDHRA PRADESH STATE.

OF

M/s. SRI VASISTA MINING,

Mg.Partner: Sri B.S. NITHIN KUMAR REDDY,
S/o. Sri B.S.Sreenath Reddy, NES

Sri VasistaApurva, 5th Floor, #8-2-350, Banjara Hills Road No. 3 HYDERABAD - 500034

Cell No 3000332266

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 9.88 Hect in Compartment No. 227 of Basivipalli R.F. & in Compartment No. 223 of Chittapara R.F., of Chittapara Beat, Chittoor West Range and Chittoor West Division, A.P. by our company and the draft mining plan is prepared by the RQP as per the guidelines, issued by 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 Vasista Mining

Date:

Place: Hyderabad



CERTIFICATE

Certified that the provisions of APMMC Rule 1966 & GCD 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 9.88 Hect in Compartment No. 227 of Basivipalli R.F & in Compartment No. 223 of Chittapara R.F., of Chittapara Beat, 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: 02-10-202

Place: Hyderabad

Signature of RQP

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

INDEX

S. No.	Chapter No.	Contents	Page No
1		Introductory Note	1
2	1	General	1
3	l1	Location & Accessibility	- 1
		PART- A	
4	1	General Details of the Applied Area / Mining Lease	3
5	2	Geology and Exploration	4
6	3	Mining	10
7	4	Mine Drainage	14
8	5	Stacking of Mineral Rejects & Disposal of Waste	14
9	6	Use of Mineral & Mineral Reject	15
10	7	Processing of ROM and Mineral Reject Other	15
11.	8	Other COMPANY OF THE STREET	15
		PART- B- Progressive Mine Closure Plan	
12	1	Environment Base Line Information/	16
13	2	Impact Assessment	16
14	3	Progressive Red amation Plan	18
15	4	Financial Assurance	19

LIST OF PLATES TO SECUL

S. No.	Title Of The Plate	TTOO Plate No.	Scale
1	Location Cum Key Plan	Plate-1	1:50,000
2	Lease Plan	Plate -1A	1:4000
3	Surface Plan	Plate -2	1:2000
4	Surface Geological Plan	Plate -3	1:2000
5	Geological Cross Sections	Plate -3A	1:2000
6	Year Wise Working Plan & Sections	Plate-4	1: 2000
7	Conceptual Plan & Section	Plate-5	1: 2000
8	Environment Plan	Plate-6	1: 5000

LIST OF ANNEXURES

S. No.	Description of Annexure	Annexure No.	
1	Divisional Forest Officer's Letter	Annexure- IA	
2	Copy of the Q.L. Application and its Enclosures	Annexure- I	
3	Pictures of the Recommended Q.L. area and Boundary Pillars	Annexure-II	
4 .	Copy of the RQP Certificate	Annexure- III	

MINING PLAN FOR APPLIED QUARRY LEASE AREA OF BLACK GRANITE

OVER AN EXTENT OF 9.88 HECT IN COMPARTMENT No. 227 OF BASIVIPALLIR.F. AND 223 OF CHITTAPARA R.F., CHITTAPARA BEAT, CHITTOOR WEST RANGE AND CHITTOOR WEST DIVISION, A.P.

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

INTRODUCTION:

Sri B. S. Nithin Kumar Reddy, Managing Partner of M/s Sri Vasista Mining has applied for grant of quarry lease for Black Granite over an extent of 9.88 Ha (i.e. 8.60 Ha for Mining, 1.26 Ha for Safety Zone and 0.02 Ha for approach road to the quarry Workings) in Compartment No. 227 of Basivipalli R.F., and 223 of Chittapara 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.351/2019/To, Dt: 10-08-2021 (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 31 and 123 submitted under Rule (12) of Granite Conservation & Development Rules, 1999.

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GENERAL:

6) Name & Address of the Applicant:

M/s Sri Vasista Mining,

Mg. Partner:Sri B.S. Nithin Kumar Reddy, Cell:9000352266

Sri VasistaApurva, 5th Floor,

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

HYDERABAD-500034

- 7) Status of the Applicant: Partner Ship Firm
- 8) Mineral(s) Which is/are included in the letter of Intent: Black Granite
- 9) Mineral(s) which is the applicant /lessee intends to mine: Black Granite
- 10) 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 ACCESSIBIMTY:

Applied / Lease area Details:

Compart. No.	R.F / Beat	Range	Division	Extent	Ownership/ occupancy
227 & 223	Basivipalli & Chittapara	Chittoor West	Chittoor West		Reserved Forest Area, Applied for Quarry Lease.

The Mining Plan / Schems is Approved subject the conditions & stipulations indicated in

Mining Plan / Scheme Approved letter

No: 2584/MP/BG/CTR/204

Date. 06:10 .204

Deputy Director of Mines & Geology Chittoor.

APPROVED

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

SI. No.	Name	Latitude	Longitude
1	VA-1	13.09127992	79.12671016
2	VA-2	13.09058754	79.1272432
3	VA-3	13.09015296	79.12776187
4	VA-4	13.08998058	79.12808149
5	VA-5	13.08937359	79.12898918
6	VA-6	13.08872986	79.1294501
7	VA-7	13.08833081	79.12998926
8	VA-8	13.08782864	79.12949888
9	VA-9	13.08697815	79.12967516
10	VA-10	13.08701336	79.12921673
11	VA-11	13.08775589	79.12852601
12	VA-12	13.08860021	79.12752984
13	VA-13	13.08880106	79.12628011
14	VA-14	13.08831813	79.1257961
15	VA-15	13.08771029	79.12519037
16	VA-16	13.0885891	79.12488058
17	VA-17	13.089397	79.12560956
18	VA-18	13.09003002	79.12618051
19	VAZ-1	13.09114623	79.12672815
20	VAZ-2	13.09053627	79.12719558
21	VAZ-3	13.09010182	79.12771246
22	VAZ-4	13.08992314	79.12804195
23	VAZ-5	13.08931686	79.12894904
24	VAZ-6	13.08868096	79.12940178
25	VAZ-7	13.08832179	79.12988635
26	VAZ-8	13.08785269	79.12942533
27	VAZ-9	13.08705271	79.12958896
28	VAZ-10	13.08707871	79.12924975
29	VAZ-11	13.08780421	79.12857456
30	VAZ-12	13.08866397	79.12756025
31	VAZ-13	13.08887219	79.12625551
32	VAZ-14	13.08836539	70 40574045
33	VAZ-15	13.08783565	79.1252188V1/A
34	VAZ-16	13.08857479	79.12495964
35	VAZ-17		
36	VAZ-18	13.08936714 13.08999358 // 6 13.09156188/ >-	79,12623964
37	RO L-I	13.09156188// -	//79/12684578
38	RO L-2	13.0912265//5/	79/2675223
39	RO R-I	13.09158574 9.	79(12679695)

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

The DGPS surveyed area is marked on Indian Topo-Sheet No. 571 Q/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 & 223 of Basivipalli R.F. & Chittapara R.F in 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′ 13.14″ to 13° 05′ 29.7″ and Longitude of 79° 07′ 29.57″ to 79° 07′ 47.96″ on Indian Topo Sheet No. 57/ O/4. The applied area is also located at a distance of 500 m from the village of Dalavaipalle due South. 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 0.550 km from N.H.-4 i.e. from Dalavaipalle. About 35 m length and 6m width of the Forest land (0.02 Ha) has been applied for approach road purpose from revenue land to the Quarry leased area. Dalavaipalle (0.5km) 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 on NW side (380m max) and sloping towards NE & SW direction. The lowest level i.e. 328m MSL is on NE side and 332 m is on SW side of the applied Q.L. area. The subject area is gradually rising towards NW up to 380m MSL. There is a maximum relief of 52 mts towards NE and 48m relief towards SW from centre of the applied Q.L. area. Due to Dolerite dyke (Black Granite) intrusion, the subject area rises to a height of 28 mts to 44 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 two seasonal watercourses are running on the slopes of the applied quarry lease on northern & Southern sides. The surface rain water of the area will joins to the seasonal nata and the halas join to local tanks. Ideated at more than 1.0km from the area on Northern side.
- ii) <u>Drainage Pattern</u>: There is no natural drain system in the abolited area. But the surface ain water flows through the slopes of the applied area and joins to the nata running in the area on northern & southern sides.
- <u>Vegetation</u>: 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) <u>Climate & Rainfall Data</u>: The appliedlease 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 GranodioriteGranite 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.

Geological Era	Geological Unit	Rock Type
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 area represents a peninsular gneissic complex comprising grey granites with Dolerite dykes intrusions. The Dolerite is intruded through the gneiss as two dykes, perpendicular to each other in SE –NW & NE-SW directions in the applied area along top of the hill. No shear zone or faults are noticed in this area. The Dolerite (Black Granite) dykes are well exposed, over a length of 453 m & 165 m and to an average width of 48 m and 25m respectively along the top of the hill postion. Float material mixed with soil is covering on slopes of the applied area on either sides of the dyke formation.

Soil & Scree: Red soil with float boulders of Black Granite is covering the slopes of the applied area to a thickness of 1m to 1 m as shown on surface Geological Plan & Sections penciosed as Plate-3 & Plate - 3A.

<u>Dolerite (Black Granite)</u>: Hard and compact, Dolerite (Black Granite) is exposed along the top of the hill to a maximum height of 44 m between the RLs of 380 m to 336 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 ow 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 Sri Vasista Mining, Mg. Partner: Sri B.S.Nithin Kumar Reddy S/o Sri B.S.Sreenath Reddy, Sri Vasista Apurva, 5th Floor, # 8-2-350, 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 44 m above the ground in the applied area. It is also seen from the adjacent workings quarties 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. B4, be ated on Northern 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 applied 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:

Three geological cross sections (A-A' to C-C') were drawn across the dyke formed in the strike direction of NE-SW. Another eight geological cross sections (D-D' to K-K') were drawn across the dyke formed in the strike direction of NW-SE. These sections were drawn at an interval of 50 m on 1:2000 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 44 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 44 m above the ground level between the RLS of 336 m – 380 m. And the dyke is extending further depth from the surface. So, the rock which is occurring up to the RL of 330 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 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 32.5% is considered for missitu B. Granite is multiplied by 17.5%, the recovery percentage 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.

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Geological Reserves of Black Granite:

Proved Category:

Table No. 5

Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m²)	Volume of In-situ B. Granite (m³)	Reserves of B. Granite (m³) @ 17.5%	Generation of Waste (m³) @82.5%
Proved	A-A'	65	276	17940	3140	14801
Reserves	B-B'	50	530	26500	4638	21863
	C-C'	50	926	46300	8103	38198
	D-D'	75	2518	188850	33049	155801
	E-E'	50	2408	120400	21070	99330
	F-F'	50	2140	107000	18725	88275
	G-G'	50	890	44500	7788	36713
	H-H'	50	1578	78900	13808	65093
	1-1'	50	2098	104900	18358	86543
	J-J'	50	2398	119900	20983	98918
	K-K'	78	2068	161304	28228	133076
			Total	1016494	177890	838611

Geological Reserves of Black Granite =177886 m3

j) Feasibility Report:

The Granite, which is used for cutting and polishing industry is exposed to a height of 44 m above the ground level and it is covered by thin layer of boulders and weathered material. The rockwill 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 polished the country. The rock is hard in nature and the primary blocks will be separated with the help of wire said suffing machine from mother rock and then the primary blocks will be out 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 vard and the saleadle grante 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.

<u>Economic Axis</u>: The mineral occurrence is seen in and around the area from working quarries. It is also proved from adjacent quarriesthat the graniteof this area is useful for cutting and polishing industries. So, the mining is economically viable in present market.

- K) Mineral Reserves: The geological reserves estimation of the Granite 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 hardin 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 revel 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 50m 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 under benches formation only under three sections of A-A', D-D' & K-K' on SW, NW & SE side of the two dykes. The non-mineable reserves, blocking under bench formation are estimated by cross sectional methods as furnished in the flowing tables -6.

Proved Reserves blocking under Safe Benches: Table-6

Category	Section	Influence Distance (m)	Sectional Area of B. Granite (m²)	Volume of In-situ B. Granite (m³)	Reserves of B. Granite (m³) @ 17.5%	Generation of Waste (m³) @82.5%
Proved	A-A'	20	24	480	84	396
Reserves	D-D,	56	366	20496	OF M358/FC	16909
	K-K'	86	370	31820	5569 ¢	26252
			Total	52796	18 0 09240	43557

Black Granite Reserves blocking under benches=9240

Mineable Reserves of Black Granite:

Geological Reserves - Blocking Reserves: 177890 - 9240 + 168650 m

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UNFC Classification of Reserves & Resources Estimation: Table-7

Classification	Code	Quantity of Black Granite(m³)	
Total Mineral Resources (A+B)		177890	
A. Mineral Reserves			
Proved Mineable Reserves	111	168650	
2. Probable Mineable Reserves	121&122	000000	
		168650	
B. Remaining Resources			
1.Feasibility Resources	211	9240 (Non-Mineable)	1
2.PrefeasibilityMineral Resources	221&222		1
3. Measured Mineral Resources	331	-4-	
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 Block Granite, it is proposed to raise about 8000 cubic metres of B. Granite blocks per year on an average. At this rate of production the expected life of the quarry is: (168650/8000 m³ = 21) 21 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 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 40,000 cubic metres of black granite blocks in five years at the rate of 8000 cubic metres per year on an average. To achieve the target production, about 1.5650 Ha of area will be excavated during first five years plan period. The excavations will be carried out in three benches of 6m height each for production after development of the overburden from the surface. After recovered the saleable granite blocks from ROM, the shapeless and defected material is treated as mineral (solid) waste. In every year about 37719 cubic metres of granite waste i.e. about 188575 cubic metres of solid waste and 31300 cubic metres of overburden will be generated in first five years.

ii) Processing (If required):

No processing of the granite blocks will be carried out in the lease areas OF MINES

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 8000 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 (m²)	Thickness of O.B. (m)	Volume Of O.B. (m ³)
1st Year	GL-372	3360	2	6720
2 nd Year	GL-372	2952	2	5904
3rd Year	GL-366	2952	2	5904
4th Year	GL-366	3320	2	6640
5th Year	GL-366	3066	2	6132
	G. Total	15650		31300
	Average			6260

Year Wise Production:

Table-9B

ear wise	Production:		Table-96			
Year	Bench No. & Its FRLS	Working Area (m²)	Bench Height (m)	Volume (m³)	Production of B. Granite @17.5% (m³)	Mineral Waste @ 82.5% (m³)
1st Year	1) 372-366	3360	6	20160	3528	16632
	2) 366-360	2500	6	15000	2625	12375
	3) 360-354	1760	6	10560	1848	8712
	Total				8001	37719
2 nd Year	1) 372-366	2952	6	17712	3100	14612
	2) 366-360	2553	6	15318	2681	12637
	3) 360-354	2114	6	12684	2220	10464
	Total				8000	37714
3 rd Year	1) 366-360	2952	6	17712	3100	14612
	2)360-354	2553	6	15318	2681	12637
	3) 354-348	2114	6	12684	2220	10464
	Total				8000	37714
4th Year	1) 366-360	3320	6	19920	3486	16434
	2)360-354	2500	6	15000	2625	12375
	3) 354-348	1800	6	10800	1890	8910
	Total				8001	37719
5th Year	1) 366-360	3066	6	18396	3219	15177
	2)360-354	2506	6	15036	2631	12405
	3) 354-348	2046	6	12276	2148	10128
	Total				7999	37709
	G. Total			34	40001	188575
	Average				8000	37715

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 188575 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 or easiem side of the area, over an extent of 14658 m² to a height of 15 to 18m @ 2932 m³ per each year on an average. The granite blocks will be supplied to the cutting & polishing units, which are located in and argund A.P. State.

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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 from 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 2m before going for granite production from the surface. The excavations will be carried out from the surface with the help of jackhammerdrilling 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 1.5650 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 northern corner. From five years excavation about 188575 m³ of granite waste and 40001 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. (m³)	Generation of Granite Waste (m³)	Total Waste (m³)	Dumping Area (m²)
1st Year	6720	37719	44439	2963
2 nd Year	5904	37714	43618	2908
3rd Year	5904	37714	43618	2908
4th Year	6640	37719	44359	2957
5th Year	6132	37709	43841	2923
Total	31300	188575	219875	14658

v) Mine Layout for year-wise Production for First FiveYears:

It is proposed to raise about 8000 cubic metres of Black Granite blocks per year during first fiveyears plan period on an average. In each year, it is proposed to excavate the raw material in three benches of 6 m height each after removal of overburden to a thickness of 2m from the surface. The workings will be started from NW side of the area, after leaving 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 undefected primary blocks will be split into secondary blocks with the help of jacknammer drilling and wedge cutting. While cutting the primary blocks into secondary blocks, the defected & shapeless material will be generated. This material is treated as grafife waste. From second year on words, 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.

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Black Granite Production:

<u>First Year Workings</u>: 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 6m height (max) each between the RLS of 372-366, 366-360 & 360-354 m, over an extent of 0.3360 Ha. Before going for granite block excavations, the O.B. consisting of small and withered material will be excavated to an average thickness of 2 m from the surface (G.L). Due to these quarry excavations about 8001 m³ of saleable granite blocks, 6720 of O.B. m³ and 37719 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.

<u>Second Year</u>: In this year, the Granite production will be obtained by advancing the three SE side benches of first year workings towards SE between the RLS of 372-366, 366-360 & 360-354, over an extent of 0.2952 Ha. Due to these quarry excavations about 8000 m³ of saleable granite blocks, 5904 of O.B. m³ and 37714 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 in table-9A & 9B.

<u>Third Year</u>: In this year, the Granite production will be obtained by advancing the three SE side benches of second year workings towards SE between the RLS of 366-360, 360-354 & 354-348, over an extent of 0.2952 Ha. Due to these quarry excavations about 8000 m³ of saleable granite blocks, 5904 of O.B. m³ and 37714 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 & bench wise production details are furnished in table-9A & 9B.

Fourth Year: In this year, the Granite production will be obtained by advancing the three SE side benches of third year workings towards SE between the RLS of 366-360, 360-354 & 354-348, over an extent of 0.3320 Ha. Due to these quarry excavations about 8001 m³ of saleable granite blocks, 6640 of O.B. m³ and 37719 m³ of granite waste will be obtained. The waste rock will be shifted to the granite industries. The proposed workings and dump yard are shown on plate-4 & bench wise production details are turnished to the granite industries.

Fifth Year: In this year, the Granite production will be obtained by advancing the three SE side benches of fourth year workings towards SE between the RLS of 366-360, 360-354 & 354-348, over an extent of 0.3066 Ha. Due to these quarry excavations about 7999 m³ of saleable granite blocks, 6132 of O.B. m³ and 37709 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 & bench wise production details are furnished in table-94 & 9B.

Haulage and Transport of Granite Blocks & Waste:

The excavated waste materialwill be loaded into dumperwith the help of excavator. The loaded material will be transported to the proposed dump yard, located on eastern side of the proposed lease area. The granite blockswill be loaded into hired trucksand 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:

- a) 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.
- b) Maximum & Minimum Depth of Workings: The workings will go to a maximum depth of 18 m from top of the hill, which is raining to a height of 44 m from ground level.
- c) Quantity and Quality of Water: Since the mine workings are restricted to 18 m from top of the hill during this plan period, no surface or ground water is going to be accumulated in working pit-
- d) Regional Drainage Pattern: The subject area belongs to hilly terrainend there is no specific drainage pattern in the subject area. Three are two seasonal nala flowing adjacent to the applied area on eastern & western side. The surface rain water of this area flows through the slopes and joins to this seasonal nala.

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

a) Nature of Waste and Its Rate of Yearly Generation:

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

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

Year	Overburden (m³)	Granite Waste (m3)	Total Waste (m³)	Dumping Area (m²)
1st Year	6720	37719	44439	2963
2 nd Year	5904	37714	43618	2908
3rd Year	5904	37714	43618	2908
4th Year	6640	37719	44359	2957
5 th Year	6132	37709	43841	2923
Total	31300	188575	219875	14658

b) Selection of Dumping Site:

About 31300 m³ of O.B consisting of weathered and Shapeless boulders mixed with soil and 188575 m³ of granite waste will be generated in this plan period. The total waste of 219875 m³ will be stocked over an extent of 14658 m² on eastern side of area to a height of 15 to 18 m as shown on plate-4.

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 14658 m2 and to a height of 15 to 18m. The proposed waste dump yard is shown on plate-4.

d) 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 eastern side of the dump, over a length of 380m and to a width of 1m each.

Arrangement of Separate Stacking of Sub-Grade Minerals:

The waste rock mixed with top soil and granite waste will be stocked in 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 catting and polishing industries granite waste will be stocked at proposed dump yard. EP

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8. OTHERS

a) Site Services:

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

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.

SI. 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, North & West sides of the subject area are mainly used for agriculture to grow dry crops within 500m radius. The forest land is continuing towards South & SE from the applied 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	9.88
Total	9.88 Ha

- b) <u>Water Regime</u>: There are no perennial water sources in the applied area. The rainwater flows through the slops of the area and it joins to seasonal nala, which is running on Northerrn side.
- c) <u>Human Settlements</u>: Within the applied area, there are no villages or human settlementslocated. There is no question of any evacuation or resettlement of people elsewhere. Workers come from the village, which is located at ½ Km. Thevillages located within 5km radius from the subject area are shown on plate-1.
- d) <u>Public buildings, sanctuaries, eco-sensitive areas etc</u>: There are no public buildings, michuments historic importance places and 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 Hectors	
Working Area	1.5650	110
Waste Dump Area	1.4658	1100
Plantation	0.1000	
Mine Roads	0.1080	
Site Services	0.0050	1
Retaining wall & G. Drain	0.1520	
Total Area	3.3958 Ha	

b) <u>Air quality</u>: 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.

SI. 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	1.5ua/m ³

- c) <u>Water Quality</u>: 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 nal, located in eastern & western sides of the area.
- d) <u>Noise Levels</u>: 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:

SI. 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) <u>Vibration Levels</u>: 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 18 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.
- acid Mine Drainage: No acid water will be discharged from mine workings.
- h) <u>Surface Subsidence</u>: The workings will be carried out to a depth of 18m (Max) irom top of the hill. So, there are no chances for surface subsidence due to this mining activity.
- i) <u>Socio-Economics</u>: The villages falling within the buffer zone are markly depending upon agriculture. There will be no adverse effect on their socio-economic environment besides; mining gives additional income to the labourers.
- j) <u>Historical monuments etc.</u>: There are no historical monuments or historical importance places within or in the vicinity the lease area.
- k) <u>Bio-Diversity:</u> 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) <u>Mined-Out Land</u>: By the end of first five years plan period about 1.4650 Ha will be mined out. In balance area, about 1.4658 Ha will be used for waste dumping. By the end of the life of the mine about 4.768 Ha will be used for excavation of the mineral. So, no backfilling is proposed for this lease period because the mineral available at bottom levels to be recovered in next lease period. The land use pattern for first five years plan period is detailed below.

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

Year	Land degradation at the beginningHa	Additional area required (Ha)	Total Area (Ha)	Reclamation in the year(ha)	Degradedarea at end of the year(Ha)
1st Year	0	0.3360	0.3360	Nil	0.3360
2 nd Year	0.3360	0.2952	0.6312	Nil	0.6312
3rd Year	0.6312	0.2952	0.9264	Nil	0.9264
4 th Year	0.9264	0.3320	1.2584	Nil	1.2584
5th Year	1.2584	0.3066	1.5650	Nil	1.5650

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

Based on present data, the life of the mine is estimated as 21 years. However, the 20 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 20 year workings, 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 this 20 years lease period as detailed below.

Year	Land degradation at the beginning Ha	Additional area required (Ha)	Total Area (Ha)	Reclamation Degraded area at end in the year (hal) of the year (hal)
In 15 years	1.5650	3.203	4.768	Nil 4.7662

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 4,768 Ha to a max. depth of 44 m from top of the hill. Hence, the mineral available at the bottom of the working pit will be excavated in next lease period.

Plantation: A green belt will be developed along lease boundary on western & Northern sides of the area. In every year 50 plants of local species will be planted over a length of 100 m and at 2 m interval. The details of year wise plantation are furnished below.

Year	Area proposed for plantation	Plants proposed For the year	Cost for plantation
1st Year	100m x 2m: 200 m ²	50 Nos of local species	Rs6000/-
2 nd Year	100m x 2m: 200 m ²	50 Nos of local species	Rs6000/-
3rd Year	100m x 2m: 200 m ²	50 Nos of local species	Rs6000/-
4th Year	100m x 2m: 200 m ²	50 Nos of local species	Rs6000/-
5th Year	100m x 2m: 200 m ²	50 Nos of local species	Rs6000/-
Total	0. 1000 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.
- Tailings Dam Management: There are no tailing dams located in and around the area.
- 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.

Care and maintenance during temporary discontinuance: The applicant will take proper care and V)

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 21 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 1st five years. Part of the pit will be back filled 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 Aleng poundary,	1000 m ² area will be Planted in five years.	

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 quarty lease granted 5:000 Hects and above. Since the applied lease area is 9.88 Ha., the BankGuarantee will be submitted to the ADMG, Chittoor for the amount of Rs 98,800/- at the time of execution of the cuarry lease.

For M/s Sri Vasista Mining

with bly

Signature of the Applicant

The Mining Plan / Schems is Approved subject a the conditions & stipulations indicated in

Mining Plan / Scheme Approved letter.
No: 2584 MP/B4 CR VY

Date. 06:10.254

Signature of the RQP

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

ROVED

Deputy Director of Mines & Geology

Chittoor.

ANNEXURE- IA

GOVERNMENT OF ANDHRA PRADESH FOREST DEPARTMENT

Rc.No.351/2019/TO, Dated: 10.08.2021 O/o the Divisional Forest Officer, Chittoor West Division, Chittoor.

Sri S. Ravi Shankar, SFS, Divisional Forest Officer.

Sub :	APFD - F.C.Act. 1980 - Proposals for diversion of 9.88 Ha. Fores Land in Compt. No.223 & 227 of Chittapara & Basavapalli RFs in Chittapara beat of Chittoor West Division, Gudipala Mandal Chittoor District filed by M/s. Sri Vasista Mining, Nandyal, Kurnoo District Managing partner: B.S. Nithin Kumar Reddy- Proposals submitted for approval- Further information called for - Reg.		
Ref :	 Prl. Chief Conservator Forests(HoFF), AP. Guntur Rc.No. EFS02-15029/22/2020/FCA-1, dt.08.04.2021. This office Rc.No.351/2019/TO, dt.10.06.2021. Prl. Chief Conservator Forests(HoFF), AP. Guntur Rc.No. EFS02-15029/22/2020-FCA.1, dt: 03.08.2021 addressed to the Director of Mines & Geology, Ibrahimpatnam. 		

Please go through the instructions of PCCF in the reference 3rd cited, and submit the approved Mining plan from the competent authority of Mines & Geology Department as early as possible for submission of compliance report to the PCCF AP Guntar for further action in the matter.

To M/s Sri Vasista Mining, Mg.Pr: B.S. Nithin Kumar Reddy Nandyala, Kurnool District Chitton West Division, Chittoor

CHITTOOR

GOVERNMENT OF ANDHRA PRADESH FORM -"P"

Application of Quarry Lease for Granite

Dated 26th Day of January, 2019

Received at	
Initial of the receiving officer	
To The Director of Minor & Co. Jan.	INTRAJ MAS
The Director of Mines & Geology, VIJAYAWADA.	GOVI HOSPITAL CHITTE

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

Sir,

1. I request that a quarry lease under the A.P.M.M.C Rules, 1986 may be granted to me.

2. A sum of Rs. 12,500/- vide Challan No 21108552732018 dated 26.01.2019 and Challan No 21108554612018 dated 26.01.2019 for Rs.2,50,000/- paid online being the fee in respect of this application and deposit respectively payable under sub rule (5-a) of rule 12.

The required particulars are given below:

Name of the Applicant with complete : address and status of the Applicant

M/S SRI VASISTA MINING Mg. Partner B.S.Nithin Kumar Reddy S/o B.S.Sreenath Reddy, D.No.25-131-B, Sanjeeva Nagar, Nandyal, Kurnool Dist A.P 518 501 Mobile No.9000352266 PAN NO. ADCES5854M

28/1/69

 Is the applicant a private individual/cooperative/ Firm/ Association/ Private Sector undertaking / Joint Sector undertaking or application.

iii. In case applicant is:

a. An individual, his Nationality, Qualification and experience related to quarrying.

and experience related to quarrying.
 A company an attested copy of the certificate of registration of the company shall be encicsed.

 A firm or association, the Nationality of all the partners of the firm or members of the association E-mail: nithin@srivasista.com

Film

Urdian

Does not arise

Cont. 2

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

4. Profession or nature of business of the applicant

Granite Quarrying and sales

5. Particulars of documents appended

a. Mineral Dues Clearance Certificate

Does not arise. Since the applicant is not having any arrears to the Government.

b. Affidavit in lieu of Mineral Dues clearance : Certificate, subject to the production of mineral due's 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

Mineral which the applicant intends to quarry 6.

Black Granite

7. Period for which quarry lease is required

20 Years

Extent of the area, for which quarry lease is required

9.900 Hects.

Details of the area in respect of which quarry :

lease is required

DISTRICT	MANDAL	Name of the Reserve Forest	Survey No	AREA
Chittoor	Gudipala	Easavapalle & Chitapara Reserve Forest	Compartment No. 223 & 227	9.900 Hects

Brief description of the area with particulars reference to the following

Does the applicant have surface rights over the : Forest Land area for which is making an application for grant of quarry lease

OR OF MINES

b. If not, has he obtained the consent of the owner, and the occupier of the land for undertaking quarrying operation

Eorest Land

11. a. A copy of village map which is not in less scale than village map showing the area applied show situation of the area in respect of natural features. such as streams or lakes.

Forest Land Sketch to soule particulars enclosed

in the case of village area the name of the village khasra number, the area in Hect of each field of part hereof applied for

Basavapalle & Chittapara Reserve Forest Gudipala Mandal Chittoor Dist

Comp No. 223.8.22 Extern 9.900 Hect

In case the area applied for is under forest, : then the following particulars be given

Yes

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 Range Chittoor West Division

Legal Statues of the Forest (namely reserved, : protected, unclassified etc.,

Basavapalle & Chittapara Reserve Forest.

Particulars of the area mineral wise in each state duly supported by an affidavit for which 13. the applicant and any person joint in interest with him

Already holds under quarry lease

Affidavit Submitted

b Has already applied for, but not granted

Affidavit Submitted

Being applied for simultaneously

-No-

14. Nature of Joint in interest if any

15. Does the applicant hold a prospecting 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

No

Has the applicant carried out the prospecting : operation over the area under P.L. and send his report to the State Govt. if not, state reasons for not doing so

Does not arise

Nature of the land chosen for dumping over : 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

Within the leased area.

A Report giving the details of prospections carried out in the area together with 16. assessment of the ore reserves, geological plans, results of chemical analysis of the representative samples and bore holes and logs

17. Manner in which the Mineral raised is utilized

> i. If for captive use, the location of plant and industry.

ii. For sale to indigenous consumption

If for export to foreign countries

Cont..4

 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.

For cutting and polishing units

18 i. Financial resources of the applicant

Self investment

 Anticipated yearly financial investments: during the Course of quarry construction and aggregate investment upto the state of commencement of commercial production.

Rs.25,00,000-00

19. The application form should be accompanied by a statement of the sallent 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.

It 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 : 26.01.2019

Yours faithfully M/s Sti Vasieta Mining

(B.S.Nithin Humar Reddy)

Note:

 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 applicants of the

CHITTOU



GOVERNMENT OF ANDHRA PRADESH

Challan No: 21198552732918

Treasury/PAO Code:1102

CFMS Transaction ID:

Major Head:

Sub-Major Head:

Minor Hond:

Group Sub-Hoad:

Dotailed Head:

Sub-Detailed Head:

Charged/Voted:

Non-Contingency/Confingency.

Amount Rs:

Amount in words Rs:

Challan Crention Date & Time: 26/01/2019 4:08:46 PM

STO: STO-Chittoor

20073575492018

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01

000 Not Applicable

102

12500.00

Twelve thousand five hundred only

APPLICATION FEE AND SURVEY CHARGES

SRI VASISTA MINING

DDO Code:

11021307001

ADM INS.GEO, CHITTOOR

Received Rs. 12500.00

Payment Date:

Payment Transaction Successful

LCTOR OF MINES &

Note: This Challan does not need



ÁPTC FORM-10

GOVERNMENT OF ANDHRA PRADESH

STO:STO-Chittoor

Civil Deposits

Not Applicable

Security Deposits

Not Applicable

Security Deposits

20073607832018

8443

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103

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01

Challan No: 21108554612018

Treasury/PAO Code:1102

CFMS Transaction ID:

Major Head:

Sub-Major Head:

Minor Head:

Group Sub-Head:

Sub-Head:

Detailed Head:

Sub-Detailed Head:

Charged/Voled:

Non-Contingency/Contingency: Amount Rs:

Amount In words Rs:

000

V

N

250000.00

Two lakh fifty thousand only

Purposes

APPLICATION FEE DEPOSIT AMOUNT

Challan Creation Date & Time: 26/01/2019 4:11:45 PM

Remitter's Name & Address.

DDG Code:

Status;

Bank Reference Number:

Payment Date:

Received Rs. 250000.00

SRI VASISTA MINIME

Mg. Partner B. Sifferio Korhar Riddy, Sto.

B. Sreenath Retlay, Mandyel, Kernsol Dist A.P.

C. Streenath Retlay, Mandyel, Kernsol Dist A.P.

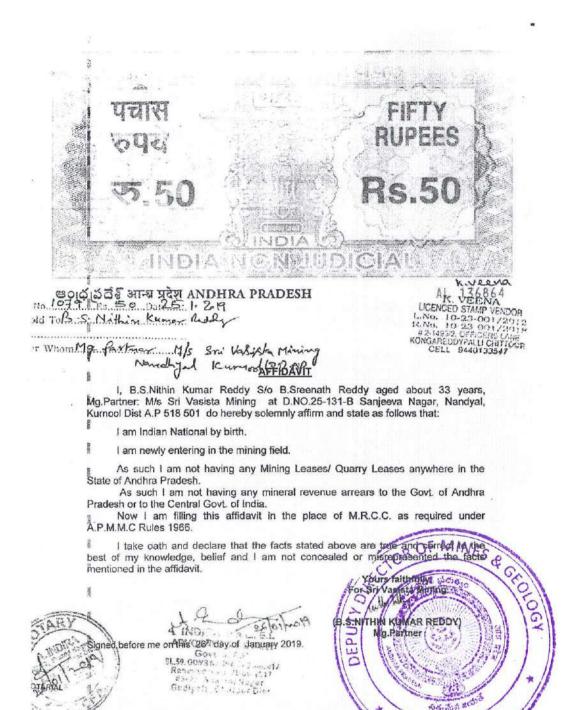
ADM INS.GEO. CHITTEON

CPM6890221

26/01/2019

CHI I CO

Note: This Challan does not need enfacement of the transury





ANNEXURE-II



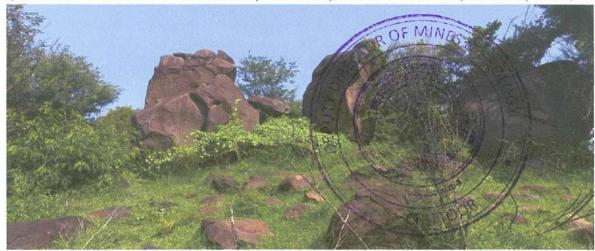
1) Picture shows the contact zone between the Grey Granite and Black Granite in Comp. No.277 & 223 of Basivipalli & Chittapara R.F., in Chittoor West Range and Chittoor West Division, A.P.

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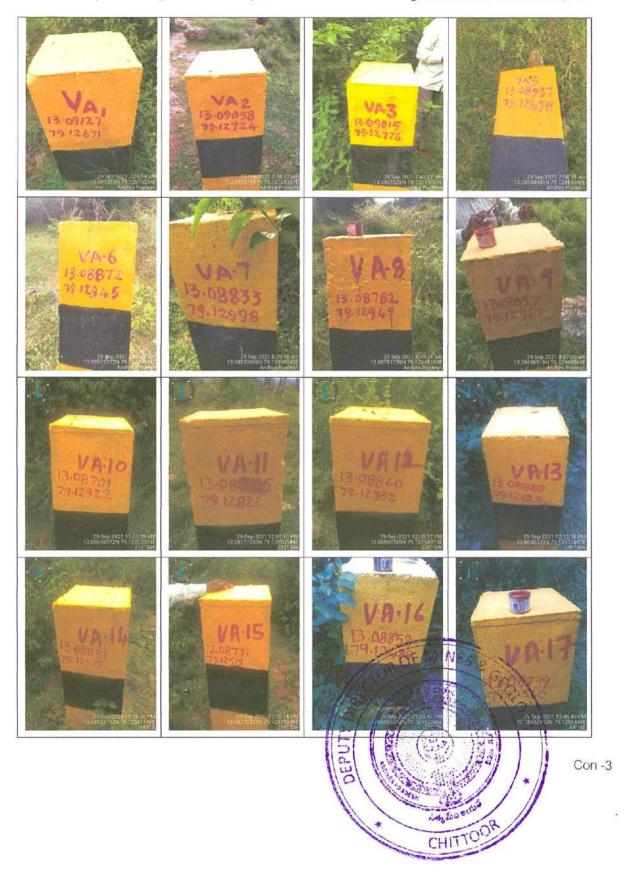


2) Picture shows sheet rock of Black Granite exposed in Comp. No.277 & 223 of Basivipalli & Chittapara R.F.,



3) Picture shows the Boulders of Black Granite exposed on No.277 & 223 of Basivipalli & Chittapara R.F, In Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P...

Pictures of the boundary pillars erected to the applied Q.L. area of Black Granite in Comp. No. 277 & 223 of Basivipalli & Chittapara R.F. In Chittapara Beat of Chittoor West Range and Chittoor West Division, A.P.





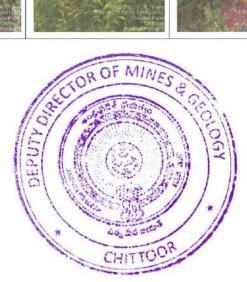
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GOVERNMENT OF ANDHRA PRADESH DEPARTMENT OF MINES AND GEOLOGY

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

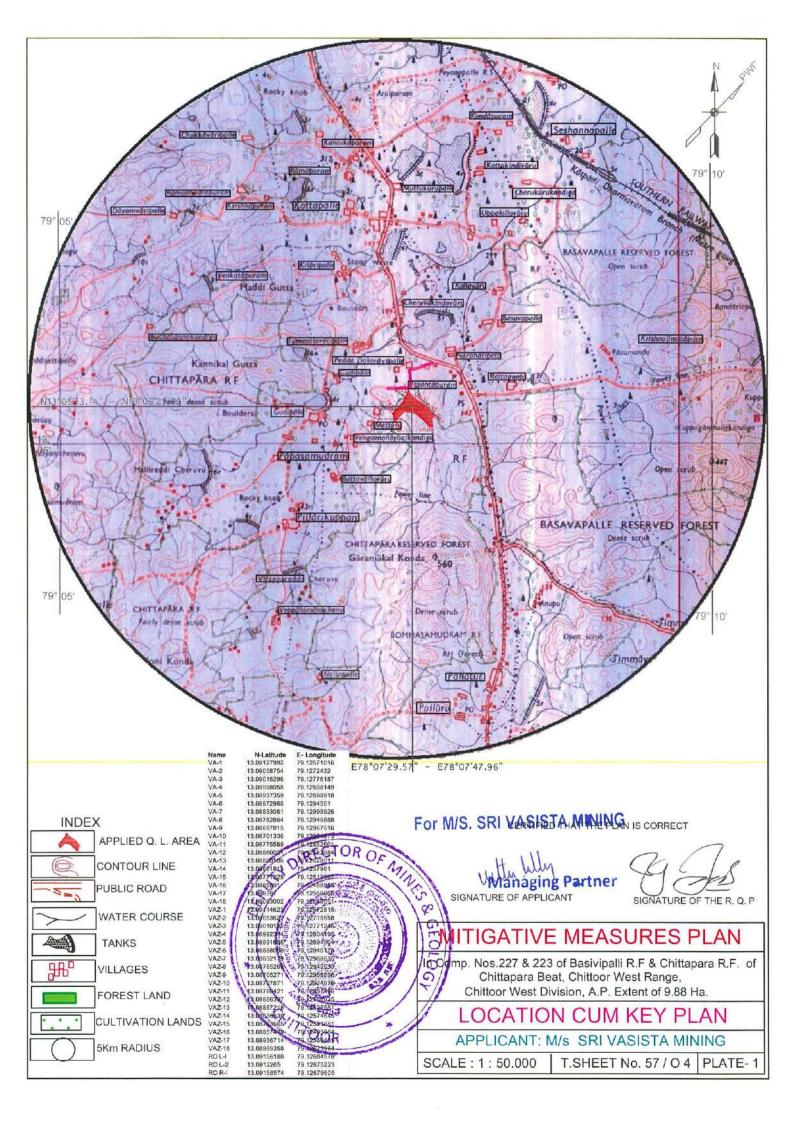
This Recognition is valid for period of 10 years with effect from 07.05.2020 and valid upto 06.05.2030. OR

This certificate will liable to be windrawn conceiled in the event of jurishing the wrong information /documents in the Mining Plansabimitted by him.

Place: Ibrahimpatnam Date: 10.07.2020.

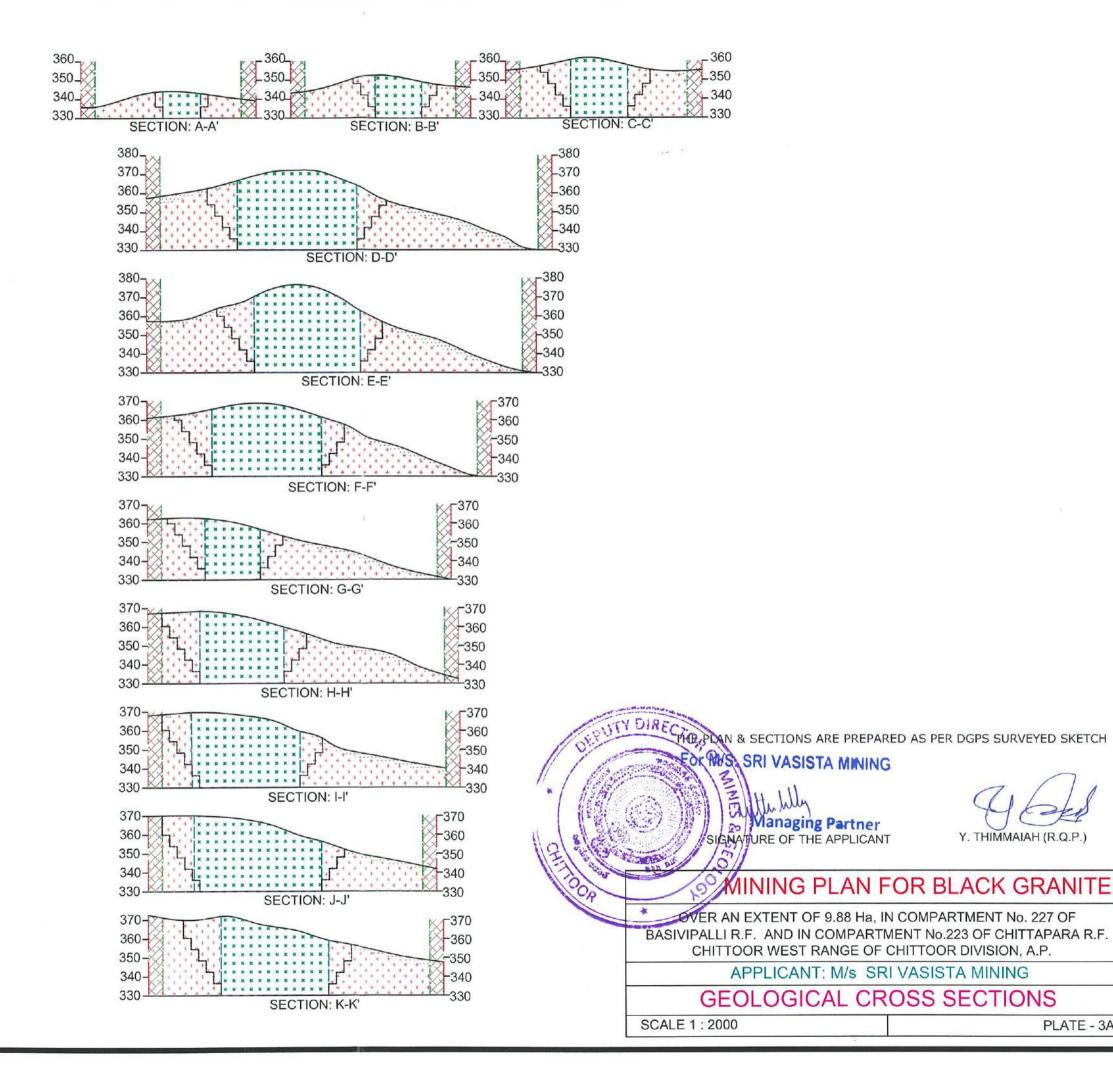
Director of Mines & Geology

CUTTOOR



INDEX DETAILS OF THE APPLIED O.L. AREA SAFETY ZONE AREA: 1.26 Ha TOTAL AREA APPLIED FOR O.L.: 9.88Ha M \$319.90m BENCH MARK CONTOURS OA A A A A A A A A A TOTAL AREA APPLIED FOR O.L.: 9.88Ha BM \$319.90m BENCH MARK CONTOURS	EXISTING GRANITE QUARRY A A A A A A A A A A A A A A A A A A A
Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ	
THE PLAN & SECTIONS ARE PREPARED AS PER APPLIED Q.L. SKETCH FOR MIS. SRI VASISTA MINING SIGNATURÉ BIPABÉTA PLAN FOR BLACK GRANITE OVER AN EXTENT OF SB Ha, IN COMPARTIMENT No. 227 OF ENVIPALIA R. AND IN COMPARTIMENT No. 227 OF CHITTORA WEST RANGE OF CHITTAPARA R.F. CHITTORA WEST RANGE OF CHITTORA DIVISION, A.P. APPLICANT: MIS SRI VASISTA MINING ENVIRONMENT PLAN PLATE-6	

(40)



Y. THIMMAIAH (R.Q.P.)

PLATE - 3A

INDEX

7.5m SAFETY BARRIER

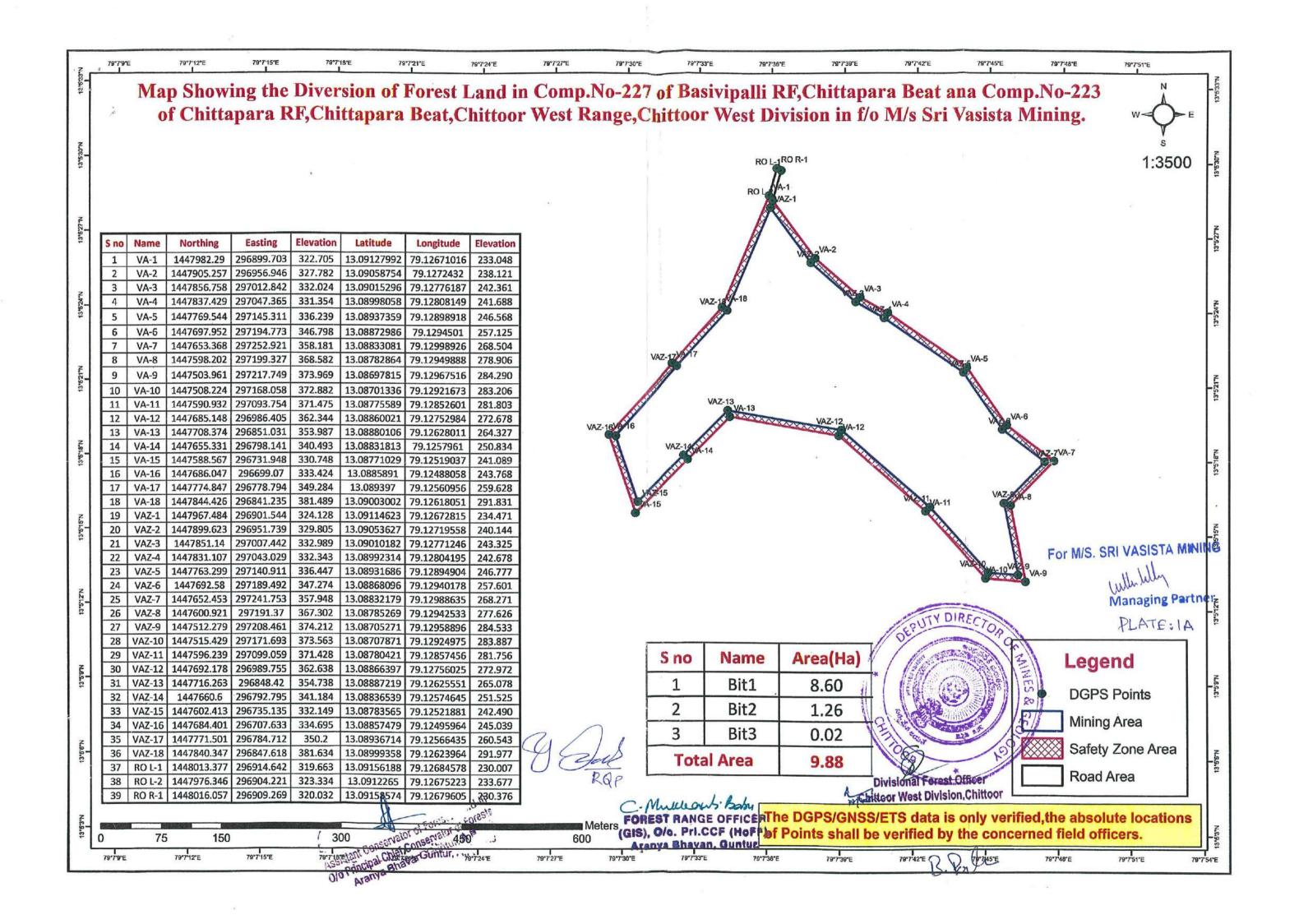
SOIL COVER

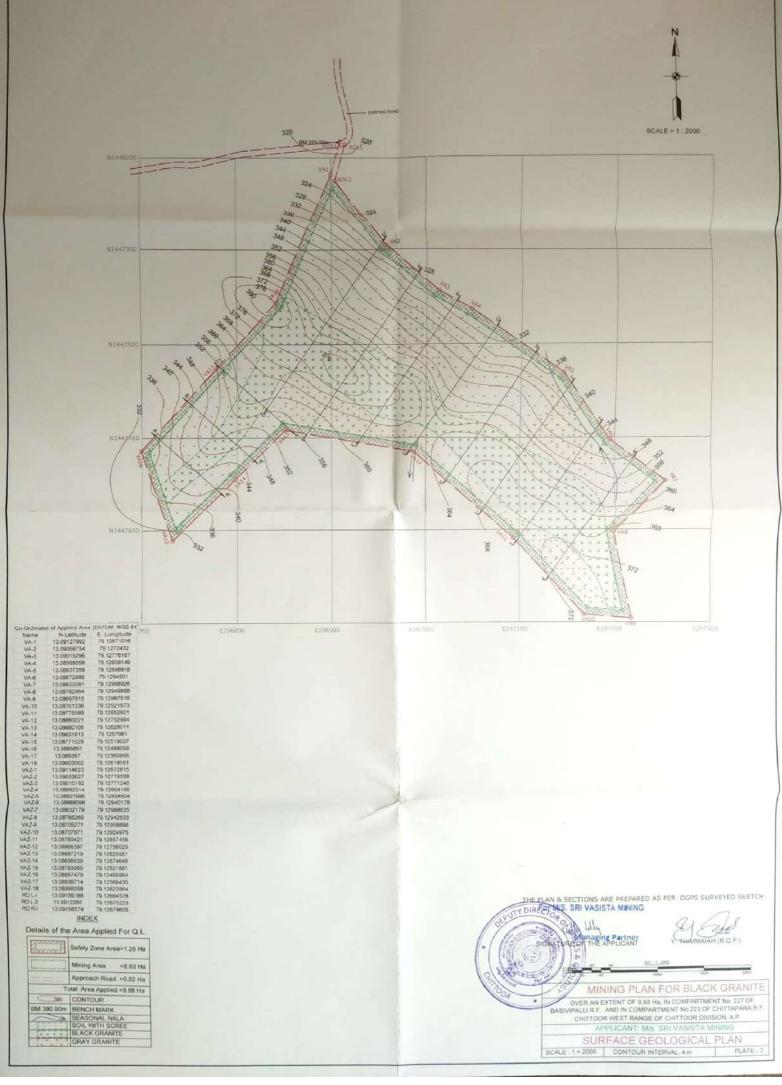
BLACK GRANITE

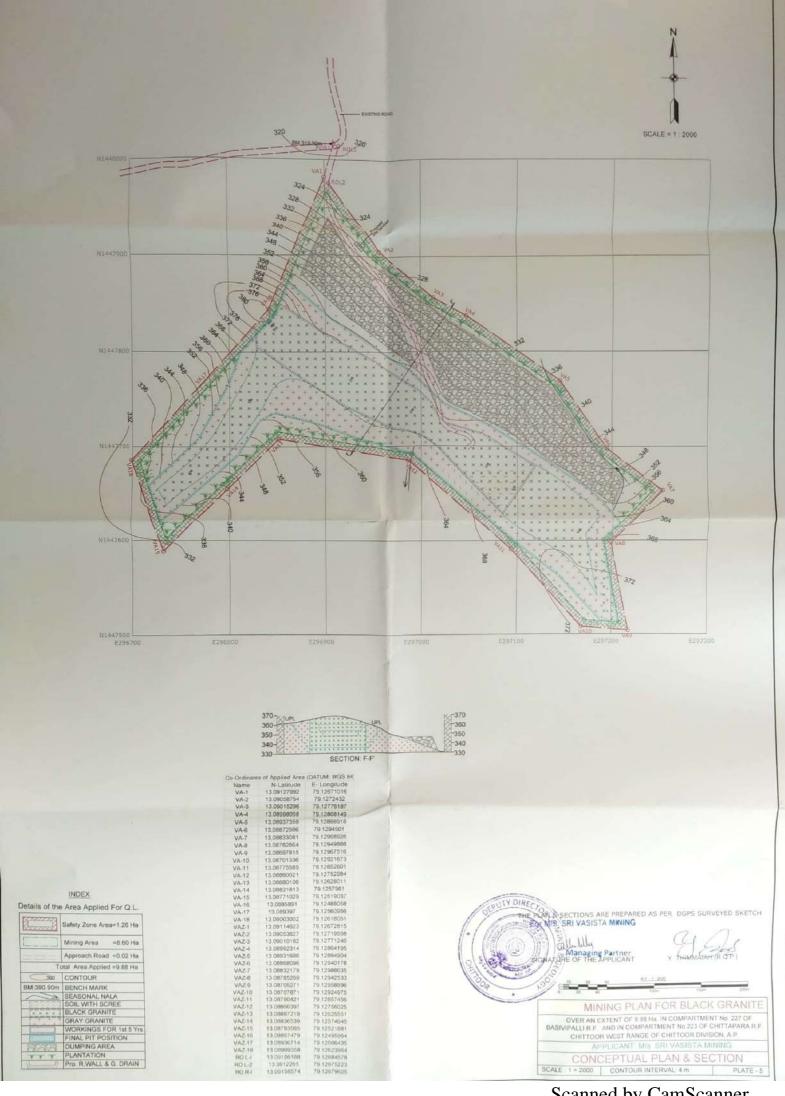
GREY GRANITE

PROVED ZONE

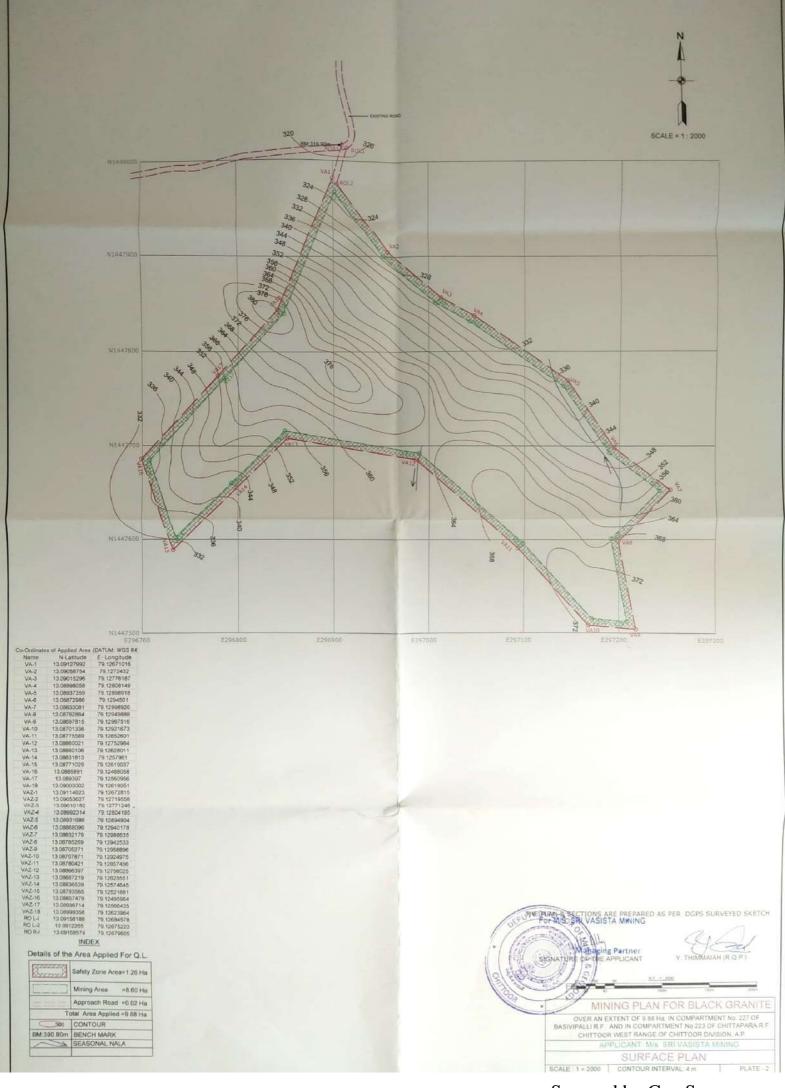
ULTIMATE PIT LIMIT



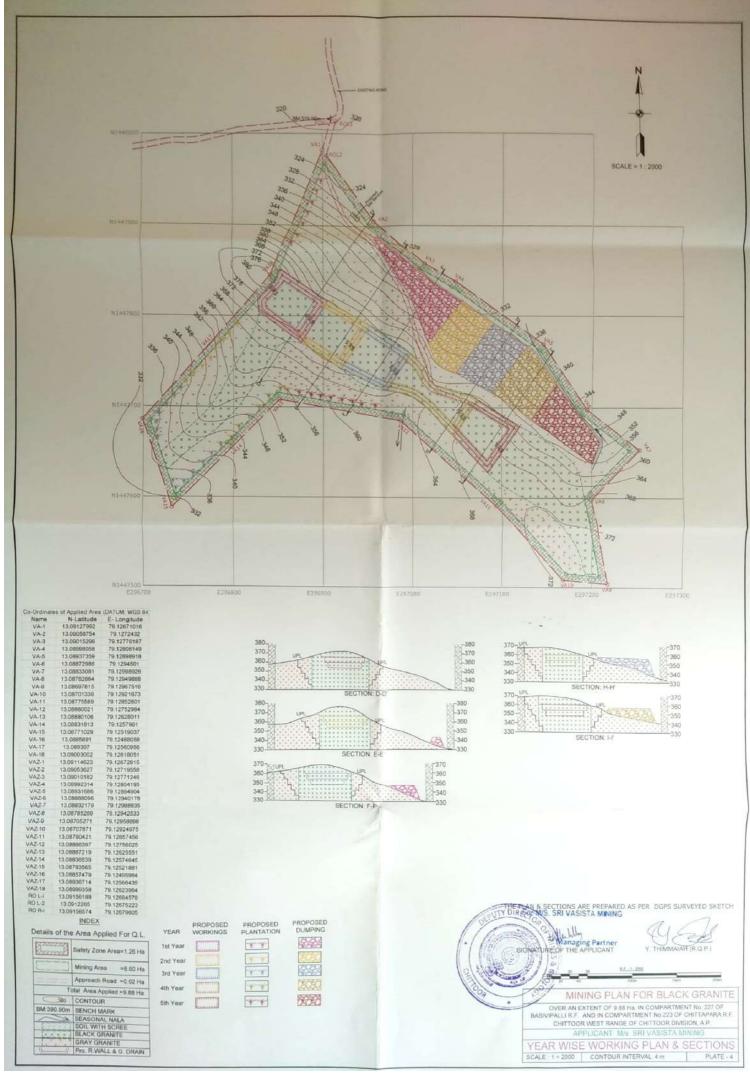




Scanned by CamScanner



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