

Annexure

For

**SULAMALAI GREY GRANITE QUARRY
OVER AN EXTENT OF 34.35.5 Ha**

At

**Survey No.: 283 (Part)
Sulamalai Village
Bargur Taluk
Krishnagiri District
Tamil Nadu State**

By



**M/s. Tamil Nadu Minerals Limited
No. 31, Kamarajar Salai
Chepauk
Chennai - 600 005**

**(Project sector - 1, Schedule of 1(a) Mining of Minor Minerals 'B1' category as per
EIA Notification 2006 and its Amendments & Project falls under Violation
category as per S.O. 804 (E) dated 14th March 2017)**

Proposal No: SIA/TN/MIN/453082/2023, Dated: 14.12.2023

ToR: SEIAA-TN/F.No.10547/2023/Violation/ToR-1649/2023 Dated: 10.01.2024

Baseline Period : January 2024 - March 2024



EIA Consultant & Laboratory

HUBERT ENVIRO CARE SYSTEMS (P) LTD, CHENNAI

NABET Certificate No & Validity: NABET/EIA/24-27/RA0335, valid up to 31.03.2027

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July 2024

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THIRU.DEEPAK S.BILGI, I.F.S.,
MEMBER SECRETARY

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TERMS OF REFERENCE (ToR)

Lr No.SEIAA-TN/F.No.10547/2023/Violation/TOR-1649/2023 Dated:10.01.2024.

To

The Managing Director,
M/s. Tamil Nadu Minerals Limited,
31 Kamarajar Salai,
Chepauk,
Chennai-600005.

Sir,

Sub: SEIAA, Tamil Nadu – Application Seeking of Terms of Reference under violation (ToR) for the Existing Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District by M/S, Tamil Nadu Minerals Limited - under project category – “B2” and Schedule S.No.1(a) –Tor Issued under Violation Category - preparation of EIA report – regarding

- Ref:**
1. Online proposal No.SIA/TN/MIN/453082/2023, dt: 14/12/2023.
 2. Your Application for Terms of Reference (ToR) dated: 07.08.2023.
 3. Minutes of the 431st SEAC Meeting held on 12.12.2023
 4. Minutes of the 688th authority meeting held on 10.01.2024.

Kindly refer to your proposal submitted to the State Level Impact Assessment Authority for Terms of Reference.

The proponent, M/S. Tamil Nadu Minerals Limited has submitted application for Terms of Reference vide reference 1st & 2nd cited in Form-I, Pre- Feasibility report for the Existing Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu.


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Discussion by SEAC and the Remarks:-

Existing Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District by M/S. Tamil Nadu Minerals Limited- For Terms of Reference (under Violation).

(SIA/TN/MIN/453082/2023, dt: 14/12/2023)

The proposal was placed in the 431st SEAC Meeting held on 12.12.2023. The details of the minutes are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. History of earlier application seeking EC

- a) The project proponent has obtained mining lease for the existing Grey granite quarry over an extent of 55.22.55 Ha vide G.O. (3D) No.268, Indus. (MME.1) Dept. Dt:21.06.1999 to 20.06.2019 at S.F. No. 283 &247 of Sulamalai Village, Krishnagiri Taluk, Dharmapuri District.
- b) Subsequently, the project proponent has surrendered mining lease area of 6.13.0 Ha vide G.O. (4D) No.2, Indus. (MME.1) Dept. Dt:07.06.2022 at S.F. No. 247 of Sulamalai Village, Krishnagiri Taluk, Dharmapuri District and the total extent of mining lease area reduced to 49.09.5 Ha.
- c) The mining plan approved for mining lease area of 34.35.5 Ha by Commissioner of Geology and Mining vide Lr. No.13592/MM2/2001 Dt:31.12.2002.
- d) The PP obtained ToR with public hearing Vide Lr No. SEIAA-TN/3889/SEAC LXVIII/TOR-231/2015 Dt:06.11.2015 in regard to the application submitted vide Re.No.3445/ML3/2015 Dt 08.09.2015.
- e) Public hearing conducted on 15.02.2017.
- f) Submitted final EIA report seeking EC Dt: 17.04.2017.
- g) MoEF&CC notification vide S.O. 804 (E) Dt. 14.3.2017 & MoEF & CC Notification S.O.1030 (E) dated 08.03.2018.
- h) Again, the PP has applied seeking ToR under violation category vide the online proposal No. SIA/TN/MIN/23926/2018 Dt:09.04.2018 (under violation).
- i) ToR under violation vide Lr No. SEIAA-TN/F.No.3889/TOR- 439/2018 Dated: 30.05.2018 and validity of the ToR issued expired as on 29.05.2023 as per MoEF&CC notification S.O. 221(E). Dt:18.01.2021 & as per MoEF&CC Office memorandum Dt 29.08.2017.



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notification S.O. 221(E). Dt:18.01.2021 & as per MoEF&CC Office memorandum Dt 29.08.2017.

2. Now, the project proponent, **M/S. Tamil Nadu Minerals Limited** has again applied for Terms of Reference under violation category for the existing **Grey Granite over an extent of 34.35.5Ha in S.F.No.289(Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu** vide online proposal No. **SIA/TN/MIN/453082/2023, dt: 14/12/2023** along with precise area communication Lr. No. 3821994/MME.1/2022-1, IIP&C Dept Dt:14.02.2023 & Approved mining plan from commissioner Geology & Mining Lr.No.6262/MM4/2019 Dt:19.09.2023.
3. The project/activity is covered under Category "B1" of Item 1(a) "Mining of Minerals Projects" of the Schedule to the EIA Notification, 2006.
4. As per the precise area communication the lease period of 20 Years. The current scheme mining plan is for 5 Years. The Mineable reserve /production for next 5 Years shall not to exceed RoM of 30,000m³ & Grey Granite of 7500m³ (Recovery @ 25%) & Grey Granite reject (75 %) of 22500m³ and the ultimate depth of 29m.
5. MoEF&CC Office Memorandum No: F. No. 22-10/2019-1A.11 Im Dt 09.09.2019 which states

"...The Hon'ble High Court of Madras vide order dated 14.03.2018 was of the view that it will serve the ends of justice if time is extended by 30 (thirty) days from the date of delivery of the order, thereby extending the time till 13th April 2018, providing time for violators to apply as per the provisions of Notification S.O 804 (E). Therefore, again a one-month window was given from the date of order of Hon'ble High court (14.03.2018-13.04.2018) to submit proposals under violation of EIA Notification. The Ministry has issued OM dated 16.03.2018 for the compliance of the order dated 14.03.2018 of Hon'ble High court of Madras...."

"...Proposals involving violation of EIA Notification, which had applied during the window (14.03.2017 to 13.09.2017 & 14.03.2018 to 13.04.2018) under violation category are being considered by the violation committee. However, in addition to such proposals, there were many category A proposals submitted in the respective sectoral committees for regular appraisal during or prior to violation window period. Sectoral committee while deliberating on the proposals,


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identified these as violation of EIA Notification. These proposals were subsequently forwarded to the violation committee after approval by the Competent Authority and such proposals are termed as "lateral entry proposals"...."


"....It is possible that there may be certain category B proposals which were submitted at SEIAA during or prior to the violation window period but not under violation category and later during the appraisal by State Level Expert Appraisal committee (SEAC) identified as violation proposals...."

Based on the above Memorandum and presentation & documents furnished by the project proponent, SEAC decided to grant of **Terms of Reference (TOR) with Public Hearing under Violation category**, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and the EIA/EMP report along with assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter by the accredited consultants.

1. The Project proponent shall conduct and furnish minutes of Public hearing as per ToR issued and accordingly, the PP shall submit revised EIA/EMP for then life of the mine including progressive/final mine closure plan.
2. The PP shall ensure that the waste/reject blocks dumped outside the mine lease area are removed.
3. Copy of total penalty levied by the AD/DD, Dept of Geology and Mining, Dharmapuri District and copy of remittance of total penalty by PP.
4. Details of status of credible action under EPA Act, 1986.
5. Details of dimension of existing pits within the existing mining lease area from AD/DD, Dept of Geology and Mining, Dharmapuri District.
6. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.
7. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.
8. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall prepare and submit an 'Action Plan' for carrying out the realignment of the benches


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- in the proposed quarry lease after it is approved by the concerned Asst. Director of Geology and Mining during the time of appraisal for obtaining the EC.
9. The Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m.
 10. The PP shall furnish the details of the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.
 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.
 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,
 - a) What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?
 - b) Quantity of minerals mined out.
 - c) Highest production achieved in any one year
 - d) Detail of approved depth of mining.
 - e) Actual depth of the mining achieved earlier.
 - f) Name of the person already mined in that leases area.
 - g) If EC and CTO already obtained, the copy of the same shall be submitted.
 - h) Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches.
 13. All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
 14. The PP shall carry out Drone video survey covering the cluster, Green belt, fencing etc.,
 15. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.


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16. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment and the remedial measures for the same.
17. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
18. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided.
19. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.
20. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
21. Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.
22. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.


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23. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.
24. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.
25. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.
26. Impact on local transport infrastructure due to the Project should be indicated.
27. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.
28. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
29. Public Hearing points raised and commitments of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project and to be submitted to SEIAA/SEAC with regard to the Office Memorandum of MoEF& CC accordingly.
30. The Public hearing advertisement shall be published in one major National daily and one most circulated Tamil daily.
31. The PP shall produce/display the EIA report, Executive summary and other related information with respect to public hearing in Tamil Language also.
32. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.
33. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in


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- consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.
34. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner
 35. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
 36. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.
 37. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
 38. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
 39. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
 40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
 41. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
 42. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC


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conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.

43. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.
44. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

Discussion by SEIAA and the Remarks:-

The subject was placed in the 688th authority meeting held on 10.01.2024. The authority noted that the subject was appraised in the 431th SEAC meeting held on 12.12.2023. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing under violation category under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC & normal conditions & the conditions mentioned in 'Annexure B' of this minute.

Annexure 'B'

Cluster Management Committee

1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.
2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc.,
3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.
4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.
5. The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.


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6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.
7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.
8. The committee shall furnish the Emergency Management plan within the cluster.
9. The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public.
10. The committee shall furnish an action plan to achieve sustainable development goals with reference to water, sanitation & safety.
11. The committee shall furnish the fire safety and evacuation plan in the case of fire accidents.

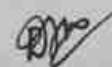
Impact study of mining

12. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area covering the entire mine lease period as per precise area communication order issued from reputed research institutions on the following
 - a) Soil health & soil biological, physical land chemical features.
 - b) Climate change leading to Droughts, Floods etc.
 - c) Pollution leading to release of Greenhouse gases (GHG), rise in Temperature, & Livelihood of the local people.
 - d) Possibilities of water contamination and impact on aquatic ecosystem health.
 - e) Agriculture, Forestry & Traditional practices.
 - f) Hydrothermal/Geothermal effect due to destruction in the Environment.
 - g) Bio-geochemical processes and its foot prints including environmental stress.
 - h) Sediment geochemistry in the surface streams.

Agriculture & Agro-Biodiversity

13. Impact on surrounding agricultural fields around the proposed mining Area.
14. Impact on soil flora & vegetation around the project site.
15. Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.


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16. The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.
17. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
18. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.

Forests

19. The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife.
20. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
21. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
22. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.

Water Environment

23. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.
24. Erosion Control measures.
25. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
26. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.
27. The project proponent shall study and furnish the details on potential fragmentation impact on natural environment, by the activities.


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28. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts.
29. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
30. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.

Energy

31. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished.

Climate Change

32. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities.
33. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.

Mine Closure Plan

34. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.

EMP

35. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.
36. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.

Risk Assessment

37. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.

Disaster Management Plan

38. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward


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accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.

Others


39. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.
40. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan.
41. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

Additional TOR specified by the SEAC to deal with the violation aspects of the mining projects

SECTION A

As per the MoEF & CC Notification S.O. 1030 (E) dated: 08.03.2018,

1. "The cases of violations will be appraised by the Expert Appraisal Committee at the Central level or State or Union territory level Expert Appraisal Committee constituted under sub-section (3) of section 3 of the Environment (Protection) Act, 1986 with a view to assess that the project has been constructed at a site which under prevailing laws is permissible and expansion has been done which can run sustainably under compliance of environmental norms with adequate environmental safeguards, and in case, where the findings of Expert Appraisal Committee for projects under category A or State or Union territory level Expert Appraisal Committee for projects under category B is negative, closure of the project will be recommended along with other actions under the law.
2. In case, where the findings of the Expert Appraisal Committee or State or Union territory level Expert Appraisal Committee on point at sub-paragraph (4) above are affirmative, the projects will be granted the appropriate Terms of Reference for undertaking Environment Impact Assessment and preparation of Environment Management Plan and the Expert


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Appraisal Committee or State or Union territory level Expert Appraisal Committee, will prescribe specific Terms of Reference for the project on assessment of ecological damage, remediation plan and natural and community resource augmentation plan and it shall be prepared as an independent chapter in the environment impact assessment report by the accredited consultants, and the collection and analysis of data for assessment of ecological damage, preparation of remediation plan and natural and community resource augmentation plan shall be done by an environmental laboratory duly notified under the Environment (Protection) Act, 1986, or a environmental laboratory accredited by the National Accreditation Board for Testing and Calibration Laboratories, or a laboratory of the Council of Scientific and Industrial Research institution working in the field of environment.”

After the appraisal of the project, the SEAC decided that the Para No.2 stated above is applicable to the project. Hence, the proponent is directed to prepare appropriate reports as contained in the Para 2.

While complying with the specific aspects of the MoEF & CC directions as stated in the Para 2 above, the following steps should be followed:

Step 1: Enumerate the aspects of Violation:

- a) The proponent should enumerate the violations as applicable to the project.
- b) Furnish a description of each violation with quantitative and qualitative data.
- c) Violation categories are to be decided taking into consideration the stage at which the project execution stands.

Step 2: Ecological Damage Assessment:

- a) For each aspect of violation enumerated in step (1), identify the resultant environmental damage that may have been caused.
- b) Furnish a description of the environmental damages with quantitative and qualitative data.

Step 3: Remediation Plan:

- a) For the Environmental damage(s) identified in the step (2) above, prepare the remediation plan for the each or combination of damages.


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- b) The remediation plan should essentially consists of problem statement, target to be achieved (quantity), standards, technology/ procedure for remediation, equipment and machinery to be used, time schedule and remediation cost(direct and indirect cost, capital as well as O&M costs).

SECTION B

1. Natural resource Augmentation:

- a) The resources that should be considered for augmentation should essentially consist of land, biota, air, water and other resources as applicable.
- b) Proponent may choose one or more of the resource augmentation as applicable and provide a description of the augmentation proposal in detail for each resource.
- c) The proponent should also furnish the cost for each augmentation scheme.

2. Community resource Augmentation:


- a) The proponent should prepare a plan of action for addressing the needs of the community in terms of resources in the sectors of education, health and sports primarily and other such resources as applicable to the community in the vicinity of the project.
- b) The community resource augmentation plan should consist of rehabilitation of houses and people, budget allocation and time schedule for completing the activity.

SECTION C

The proponent should prepare content for the ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation separately in a chapter and include in the EIA / EMP report.

SECTION D

- a) After the appraisal of the EIA / EMP report submitted by the proponent, the SEAC will make a judgement of the quality of the content in the EIA / EMP report specifically with reference to the chapter covering the ecological damage assessment, remediation plan, natural resource augmentation and community resource augmentation.


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- b) In the judgement of SEAC, if the quality of the content in the chapter is not satisfactory, the SEAC may direct the proponent to further revise the chapter and resubmit the EIA/EMP report.
- c) If SEAC concludes that the technical part is satisfactory and the costing aspect is not satisfactory then the SEAC may revert to legal provisions, MoEF & CC guidelines and similar expert committee recommendations for finalizing the cost aspects or the SEAC may use its own expertise and experience in finalizing the cost.

SECTION E

The proponent is directed to furnish data as per the questionnaire appended in Annexure


I. It will help the SEAC in arriving the ecological damage and the associated cost.

SECTION F

In compliance with the Supreme Court order stated in MoEF & CC letter F.No. 3-50/2017 IA.III-pt dated: 05th January 2018, the proponent is required to submit the No Objection Certificate obtained from the Department of Geology and Mining, Government of Tamil Nadu regarding payment of 100% cost of illegally mined mineral under section 21(5) of MMDR Act 1957 which would account for mining operations in violation of the following:

- a) Without Environmental Clearance (EC), or in excess of the quantity approved in EC
- b) Without Consent to Operate (CTO) or in excess of the quantity approved in CTO and
- c) Without mining plan/scheme of mining or in excess of the quantity approved in mining plan / scheme of mining
- d) Without Forest Clearance
- e) Any other violation

List out the details of reserve forest and wildlife sanctuary nearby the project site (the details should also include other districts which are nearby the project site) and also furnish the detail of distance between the project site and reserve forests/wildlife sanctuary.



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Whether the project site attracts the HACA clearance? If so, also furnish the HACA clearance for the mining from the competent authority.

The proponent is instructed to fill in the form contained in Annexure I to work out the details of the ecological damage during the violation period.

A. STANDARD TERMS OF REFERENCE

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
- 5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
- 6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
- 7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal


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with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.

- 8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.
- 9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.
- 10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.
- 11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.
- 12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.
- 13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.
- 14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.
- 15) The vegetation in the RF / PF areas in the study area, with necessary details, should be


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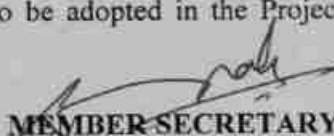
given.

- 16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.
- 17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.
- 18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.
- 19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.
- 20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL, HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).
- 21) R&R Plan/compensation details for the Project Affected People (PAP) should be


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furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

- 22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.
- 23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.
- 24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.
- 25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
- 26) Description of water conservation measures proposed to be adopted in the Project


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should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

- 27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.
- 28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.
- 29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.
- 30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.
- 31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.
- 32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of


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Transportation study as per Indian Road Congress Guidelines.

- 33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
- 34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
- 35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
- 36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
- 37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
- 38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.
- 39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
- 40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
- 41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
- 42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
- 43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
- 44) Besides the above, the below mentioned general points are also to be followed:-


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- a) Executive Summary of the EIA/EMP Report
- b) All documents to be properly referenced with index and continuous page numbering.
- c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
- d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
- e) Where the documents provided are in a language other than English, an English translation should be provided.
- f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
- g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.
- h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- i) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

In addition to the above, the following shall be furnished:-

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:


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- 1) Project name and location (Village, District, State, Industrial Estate (if applicable).
- 2) Products and capacities. If expansion proposal then existing products with capacities and reference to earlier EC.
- 3) Requirement of land, raw material, water, power, fuel, with source of supply (Quantitative)
- 4) Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
- 5) Measures for mitigating the impact on the environment and mode of discharge or disposal.
- 6) Capital cost of the project, estimated time of completion.
- 7) Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./ private land, status of its acquisition, nearby (in 2-3 km.) water body, population, within 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
- 8) Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
- 9) Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
- 10) Likely impact of the project on air, water, land, flora-fauna and nearby population
- 11) Emergency preparedness plan in case of natural or in plant emergencies
- 12) Issues raised during public hearing (if applicable) and response given
- 13) CER plan with proposed expenditure.
- 14) Occupational Health Measures
- 15) Post project monitoring plan

Besides the above, the below mentioned general points should also be followed:-

- a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.
- b. All documents may be properly referenced with index, page numbers and continuous page numbering.
- c. Copy of permission related to Port facility, Desalination plant, wind mill /solar power plant from competent Authority.


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- d. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.
- e. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.
- f. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website <http://www.moef.nic.in/> may be referred.
- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above-mentioned points, the proponent will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
 - The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance
 - The TORs prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

The receipt of this letter may be acknowledged.


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Copy to:

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
2. The Additional Chief Secretary to Government, Environment and Forests Department, Tamil Nadu.
3. The Additional Chief Secretary to Government, Industries Department, Tamil Nadu.

4. The Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st& 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai – 34.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
6. The Chairman, TNPC Board, 76, Mount Salai, Guindy, Chennai-32
7. The District Collector, Krishnagiri District.
8. The Commissioner of Geology and Mines, Guindy, Chennai-32
9. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
10. File Copy.



Annexure 1Additional information for considering EC for mining projects

| S.No. | Details to be provided | Page no. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|---|-------------------|----------|--------|----------|--------|----------|--|---------|--------|---------|--------|---------|--------|---------------------------------------|--|--|--|--|--|--|---------------------|--|--|--|--|--|--|--|
| 1) | Name of the project lease & owner | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2) | Lease Extent | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3) | Lease Validity | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4) | Approved Mining Plan/Scheme – Review a) Specify whether DSR is provided (applicable in case of minor minerals only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5) | Specify - Nature and type of violation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I. Without EC or in excess of quantity approved in EC | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | II. Without CTO or in excess of quantity approved in CTO | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | III. Without mining plan/Scheme of mining or in excess of quantity approved in Mining plan/Scheme of mining. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | IV. Without forest Clearance | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V. Any other violation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6) | Violation period | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I. Number of months | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | II. Number of Years | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7) | Exploitation/Excavation quantity- Reserves proved through exploration by drilling | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8) | Give details of production from the date of execution of the lease deed / since 1994 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th rowspan="2">Year and quantity</th> <th colspan="2">2010-11*</th> <th colspan="2">2011-12*</th> <th colspan="2">2012-13*</th> </tr> <tr> <th>Planned</th> <th>Actual</th> <th>Planned</th> <th>Actual</th> <th>Planned</th> <th>Actual</th> </tr> </thead> <tbody> <tr> <td>Ore/mineral/g granite blocks (tonnes)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Waste (tonnes/cu.m)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | Year and quantity | 2010-11* | | 2011-12* | | 2012-13* | | Planned | Actual | Planned | Actual | Planned | Actual | Ore/mineral/g granite blocks (tonnes) | | | | | | | Waste (tonnes/cu.m) | | | | | | | |
| Year and quantity | 2010-11* | | 2011-12* | | 2012-13* | | | | | | | | | | | | | | | | | | | | | | | | |
| | Planned | Actual | Planned | Actual | Planned | Actual | | | | | | | | | | | | | | | | | | | | | | | |
| Ore/mineral/g granite blocks (tonnes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Waste (tonnes/cu.m) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | * year of mining operation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


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|--------------------------------|--|---------|--------|---------|--------|---------|--------|
| 9) | Quantity mined out during the violation period & if, yes indicate the violated quantity, in term of % of consented quantity. | | | | | | |
| | Year and quantity mined out during the violation period | 2010-11 | | 2011-12 | | 2012-13 | |
| | | Planned | Actual | Planned | Actual | Planned | Actual |
| | Ore/mineral/g ranite blocks (tonnes) | | | | | | |
| Waste excavation (tonnes/cu.m) | | | | | | | |
| 10) | State illegal mining/encroachments outside the lease boundary? Percentage of quantity mined out outside the lease boundary. | | | | | | |
| 11) | Method of working | | | | | | |
| | I. Category type: (a) Mechanised (b) Semi – Mechanised (c) Manual | | | | | | |
| | II. Construction and design of haul roads | | | | | | |
| | a) Dimension as per the statutory requirements which were followed or otherwise | | | | | | |
| | b) Number of vehicles plying on the main haul roads inside the mine and the approach road to the pit located outside the mine, if any. | | | | | | |
| | c) Are any measures taken to minimise fugitive dust generated form mine haul roads? Does it comply with the CPCB/PCB Guidelines? | | | | | | |
| | d) Is there a possibility that air pollutants emitted from the project area that do not comply with air quality standards as per CPCB/PCB? | | | | | | |
| 12) | Mechanized / Semi – Mechanized Method of Mining | | | | | | |
| | (i) Number of loading / excavating equipments as per approved mining plan and capacity. | | | | | | |
| | (ii) Number of loading / excavating equipments actually being deployed and capacity. | | | | | | |


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| | (iii) Type and number of transporting equipments. | | | | | | | | | | |
|-----------|--|---------|-------------------------------|---------|-----------|--|--|--------|--|--|--|
| | (iv) Type of transporting system used – (a) trucks (b) Any other mode | | | | | | | | | | |
| | (v) Capacity and Number of trucks used as per approved mining plan | | | | | | | | | | |
| | (vi) Capacity and Number of trucks used actually in the mine. | | | | | | | | | | |
| | (vii) Number and capacity of loading equipments and trucks used not in line with approved mining plan. | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th></th> <th>Capacity (m³)</th> <th>Numbers</th> </tr> </thead> <tbody> <tr> <td>Excavator</td> <td></td> <td></td> </tr> <tr> <td>Trucks</td> <td></td> <td></td> </tr> </tbody> </table> | | Capacity (m ³) | Numbers | Excavator | | | Trucks | | | |
| | Capacity (m ³) | Numbers | | | | | | | | | |
| Excavator | | | | | | | | | | | |
| Trucks | | | | | | | | | | | |
| | (viii) Impact of excess deployment of loading equipments (excavators) and transporting equipments on environment. (a) Air pollutants (b) Water Quality (c) Land Quality (d) Noise level | | | | | | | | | | |
| | (ix) Does the deployment of loading equipments (excavators) and trucks fulfil the statutory requirements as per MMR 1961, with respect to the site conditions? | | | | | | | | | | |
| 13) | Method of Rock Breaking/Material preparation for the excavation: | | | | | | | | | | |
| | (i) Methodology adopted – | | | | | | | | | | |
| | a) Drilling and blasting | | | | | | | | | | |
| | b) Rock breakers | | | | | | | | | | |
| | c) Rippers | | | | | | | | | | |
| | d) Surface miners | | | | | | | | | | |
| | e) Direct mucking by excavators | | | | | | | | | | |
| | f) Manual means | | | | | | | | | | |
| | g) Any other methods or combination of above | | | | | | | | | | |
| | (ii) In case of drilling and blasting method: | | | | | | | | | | |
| | (a) Type of blasting: short hole or deep hole | | | | | | | | | | |
| | (b) Whether controlled blasting technique adopted? If yes, specify the technique with details of study, year of study | | | | | | | | | | |
| | (c) Impacts due to blasting defined as per the studies, if any carried out previously as indicated | | | | | | | | | | |


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| | |
|-----|--|
| | (d) Dust pollution |
| | (e) Noise level (dB(A)) |
| | (f) Ground vibration studies and Fly rock projection |
| | (iii) Impact of preparation of Ore and waste on environment- |
| | a) Air Pollution |
| | b) Noise Pollution |
| | c) Water Pollution |
| | d) Safety standards |
| | e) Traffic density |
| | f) Road Condition (vulnerability) |
| 14) | Construction and Design of Dumps. |
| | a) Place/Location |
| | b) Approach to Dump form the mine distance and safety standards. |
| | c) Area of extent occupied |
| | d) Dimension of Dump and No. of terrace with heights (benches) |
| | e) Vegetation covered ; If yes, specify the details of plants |
| 15) | Construction and Design of Waste Dumps |
| | (i) Numbers and Location of Dumps as per approved Mining Plan |
| | (ii) Specify whether reject dumps are located within or outside mining lease |
| | (iii) Area occupied in excess of the approval mining plan. |
| | (iv) Dimension of Terracing, Light, shapes, etc., Dump as per approved Mining Plan |
| | (v) Fresh/Existing Dimension Height, shape, width. etc., of Dumps in the mine. |
| | (vi) Volume/Quantity added to Waste/Dump during the violated period. |
| | (vii) Approach to the Dump-Dimension, distance. |
| | (viii) Number of and type of equipments deployed in Dump. |
| | (ix) Provision of Garland drains around the Dumps. |
| | (x) Any vegetation made on the slopes. |
| | (xi) Provision of safety standards. |
| | (xii) Impact of Waste/Dumps on environment. |
| | a) Air pollution |
| | b) Water pollution |
| | c) Dust pollution |
| | d) Noise pollution |
| | (xiii) Terracing |

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| | | |
|-----|--|--|
| 16) | Construction and Design of Ore and sub grade ore/mineral Stacks:- | |
| | (i) Number and Location of Ore stacks. | |
| | (ii) Dimension of Ore/sub grade Stacks as per the Approved Mining Plan | |
| | (iii) Volume/Quantity added during the violation period. | |
| | (iv) Any Screening plant or any other loading equipment engaged during the violated period. | |
| | (v) Approach to Ore / sub grade stack –Distance, hazards. | |
| | (vi) Safety standards adopted while operation. | |
| | (vii) Impact of ore/sub grade on environment | |
| | a. Air pollution | |
| | b. Water pollution | |
| | c. Dust pollution | |
| | d. Noise pollution | |
| 17) | Mine Pit Water | |
| | (i) Intersection of Ground water table, specify the measures taken. | |
| | (ii) Ground water table as per hydro geological Studies (Pumping test). | |
| | (iii) Provision of Garland drains around pit and dumps | |
| | (iv) Water pollution | |
| | (v) Management of mine water. | |
| | (vi) Ultimate pit limit, w.r.t Ground water intersection and management of drainage of ground water. | |
| 18) | Diversion of General Drainage/River/Nallah course for mining | |
| 19) | Clearing of vegetation before the commencement of mining operation- Number of trees (species wise) | |
| 20) | Man Power | |
| | (a) Statutory management | |
| | (b) Regular (Non –statutory) Manpower | |
| 21) | Occupational Health and Safety. | |
| | (a) Periodical monitoring of health standards of persons employed as per Mine Act, 1952. | |


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| | | |
|-----|--|--|
| | (b) Failure to inform statutory bodies periodically, if any | |
| 22) | Population (Nearby Habitation) | |
| | (i) Population/Significant Population/Dense Population within the buffer zone of 10 Kms. | |
| | (ii) People displacement due to mining activities | |
| | (iii) Location/ Existence of habitation near the river or any other historical/sensitive/ forest distance. | |
| | (iv) Impact of mining on Surrounding and habitation-Air, Water, Noise, Pollution. | |
| | (v) Socio Economic aspects of mining. | |
| 23) | CSR | |
| | (a) Field ground Activities or studies. Actual amount spent towards CSR and the future proposal. | |
| 24) | NOC from DMG for quantity clarification in respect of settlement of all the amount payable against identified violation. | |
| 25) | For the Clearance of EC, Public Hearing is mandated as per MoEF & CC Notification. | |
| 26) | Conceptual post mining land use/restoration | |
| 27) | Litigation/court cases, if any pending | |
| 28) | Disaster management plan for the mine | |


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702-2

Annexure-2

Annexure No - A 345



Industries, Investment Promotion & Commerce (MME.1) Department Secretariat, Chennai - 600 009



Letter No.3821994/MME.1/2022-1, Dated: 14.02.2023

From
Thiru S.Krishnan, I.A.S.,
Additional Chief Secretary to Government.

To
✓ VI. Tamil Nadu Minerals Limited,
31, Kamarajar Salai,
TWAD House,
Chepauk, Chennai - 600 005.



Sir,

Sub: Industries, Investment Promotion & Commerce - Mines and Minerals - Minor Mineral - Grey Granite - Krishnagiri District - Bargur Taluk - Sulamalai Village - Over an extent of 34.35.5 hectares of Government poramboke land in S.F.No. 283 (Part) - Quarry Lease Application preferred by Tvl.TAMIN - Precise Area Communicated - Approved mining Plan and Environmental Clearance - Called for.

- Ref:
1. Your Quarry Lease Application dated 06.06.2018.
 2. From the District Collector, Krishnagiri, File Roc.No.974/2018/Mines, dated 20.09.2019.
 3. From the Commissioner of Geology and Mining, File Rc.No.6262/MM4/2019, dated 18.12.2022.

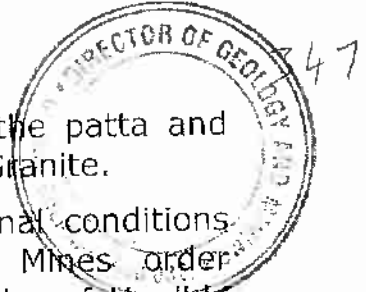
I am directed to refer your quarry lease application first cited and to state that in the references second and third cited, the District Collector, Krishnagiri and the Commissioner of Geology and Mining respectively have recommended the quarry lease application for grant of quarry lease for quarrying Grey Granite over an extent of 34.35.5 hectares of Government poramboke land in S.F.No. 283 (Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District for a period of 20 years under Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959.

2. The Government, after carefully examined the recommendations of the District Collector, Krishnagiri and the Commissioner of Geology and Mining, have decided to communicate precise area for over an extent of 34.35.5 hectares of Government poramboke land in S.F.No.283 (Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District and accordingly, the Government hereby communicate the above said area as Precise Area under sub-rule (3)(b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 for grant of quarry lease.



3. I, therefore, request you to furnish the Approved Mining Plan for the above-mentioned Precise Area through the Commissioner of Geology and Mining within a period of 3 months as per sub-rule (3)(b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 and to produce Environmental Clearance obtained from the competent authority for the above said area for grant of quarry lease subject to the following conditions:-


- 1) 7.5 m safety distance should be maintained all along the boundary and patta land on the north and north-western side.
- 2) 50 m safety distance should be maintained to telephone line and EB line on the Eastern side of the applied area.
- 3) 50 m safety distance should be maintained for odai on the Northern side of the lease applied area.
- 4) The four boundaries of the applied area are fixed and the quarrying activity should be restricted within the area granted on lease.
- 5) Barbed wire fencing or Compound wall should be erected all along the boundary of the lease granted area.
- 6) The waste materials generated during the course of quarrying should be dumped only within the lease hold area.
- 7) Environment Clearance should be obtained from the competent authority in respect of the subject area as per rule 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and any other clearances if any.
- 8) The applicant company should submit Mining Due Clearance Certificate for the year 2018-19 to 2022-23 after one year as per the G.O.(D).No.43, Industries (MME.1) Department, dated 16.05.2021 in which the Government has given exception to Tvl. TAMIN Limited for remittance of arrear dues to the Government.
- 9) The applicant company should fence the lease granted area with barbed wire before the execution of lease deed as follows:-
 - ❖ The pillar post shall be firmly grounded with concrete foundation of height not less than 2 meters with a distance between two pillars shall not be more than 3 meters.
 - ❖ The applicant company shall incorporate the DGPS readings for the entire boundary pillars of the area and the same should be clearly shown in the mining plan.
 - ❖ A soft copy of the digitized map with DGPS readings should be submitted in the CD to the Deputy Director (G&M), Krishnagiri.
- 10) The conditions mentioned in G.O.(Ms).No.79, Industries (MMC.1) Department, dated 06.04.2015 should be complied with.
- 11) As per rule 12(V) of Mineral (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the applicant shall at their own expenses erect, maintain and keep in repair all the boundary pillars.



- 12) The applicant company should not cause hindrance to the patta and Government lands while quarrying and transportation of Granite.
- 13) The applicant company should comply with the additional conditions stipulated in the Government of India, Ministry of Mines order No.11/02/2020, dated 14.01.2020 issued as per the order of Hon'ble Supreme Court of India, dated 08.01.2020 which states that "The mining lease holders shall after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to this mining activities and restore the land to a condition which is fit for growth of fodder, flora and fauna etc.,"
- 14) The applicant company should carry out DGPS Survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/MM4/2019, dated 1.02.2018 and subsequent corrigendum dated 13.8.2019 before execution of quarry lease.
- 15) Tvl. TAMIN Limited shall produce current mining dues clearance certificate as per the affidavit filed along with this application, on grant of mining lease for this area but, before execution of lease deed.
- 16) The applicant company should submit latest Board of Directors details before execution of lease deed.

4. The District Collector, Krishnagiri shall obtain a sworn-in-affidavit from the applicant company containing the above conditions before execution of lease deed and also ensure that the instructions issued in Government Letter No.12789/MMB.2/2002-7, Industries Department, Dated 9.1.2003 are complied with.

Yours faithfully,


15.2.2023

for Additional Chief Secretary to Government

6/15
14/12/2022

Copy to:
The Commissioner of Geology and Mining,
Guindy, Chennai - 600 032.

The District Collector,
Krishnagiri.

DIRECTORATE OF GEOLOGY AND MINING

From
Thiru.L.Nirmal Raj, I.A.S.,
Director,
Department of Geology and Mining,
Guindy, Chennai - 600 032.

To
The Managing Director,
Tvl. TAMIN Ltd., TWAD House,
No.31, Kamarajar Salai,
Chepauk, Chennai -05.

Rc. No.6262/MM4/2019, dated:19.09.2023

Sir,

Sub: Mines and Minerals - Minor Mineral - Colour Granite - Krishnagiri district - Bargur taluk - Sulamalai village - over an extent of 34.35.5 Ha of Government land - S.F.No.283(Part) - quarry lease application preferred by Tvl.TAMIN Ltd., Chennai - Precise area communicated by the Government - Mining Plan submitted by Tvl.TAMIN Ltd., Chennai - Recommended by the Deputy Director (G&M), Krishnagiri - Further particular requested - Furnished by the Deputy Director (G&M), Krishnagiri - Approval accorded.



- Ref:
1. The Commissioner of Geology and Mining original file no. Rc.No.6262/MM5/2019 dated 18.12.2022 forwarded under single file system.
 2. Government letter no. 3821994/MME.1/2022-1 dated 14.02.2023.
 3. Tvl.TAMIN Ltd., Chennai letter Rc.No.717/ML2/2023 dated 11.05.2023.
 4. The Deputy Director of Geology and Mining, Krishnagiri letter Rc.No.974/2018 (Mines), dated 16.06.2023.
 5. The Commissioner of Geology and Mining letter Rc.No.6262/MM5/2019 dated 05.07.2023
 6. The Deputy Director of Geology and Mining, Krishnagiri letter Rc.No.974/2018 (Mines), dated 29.08.2023.

Kind attention is invited to the above references cited.

2) A quarry lease application preferred by Tvl.TAMIN Ltd., for quarrying black granite over an extent of 34.35.5 ha of Government land in S.F.No.283 (Part) of Sulamalai village, Bargur taluk, Krishnagiri district was forwarded to the Government by the Commissioner of Geology and Mining vide reference 1st cited for grant

of quarry lease under rule 8-C of TNMMCR, 1959. Now, the Government vide letter dated 14.02.2023 have communicated the precise area to an extent of 34.35.5 ha and requested the applicant company to submit the approved mining plan through the Commissioner of Geology and Mining and to produce environmental clearance obtained from the competent authority for the subject area for grant of quarry lease.

3) Accordingly, the mining plan submitted by Tvl.TAMIN Ltd., has been forwarded and recommended by the Deputy Director, (G&M), Krishnagiri vide reference 4th for the subject area for approval. In this regard, the Director of Geology and Mining vide letter dated 05.07.2023 requested to furnish the old pits dimension details formed in the previous lease period. The Deputy Director, (G&M), Krishnagiri vide reference 6th cited has submitted the old pit dimensions with total depth.

4) On Scrutinizing the mining plan submitted by Tvl.TAMIN Ltd. Chennai and the report of the Deputy Director (G&M), Krishnagiri, the following are submitted.

- i. The Deputy Director (G&M), Krishnagiri has reported that the draft mining plan is prepared by the Recognized Qualified Person and the details such as geological, mineable reserves, year wise production and development program have been incorporated in the draft mining plan.
- ii. The proposed year wise production:

| Year | ROM (cbm) | Production (m³) @ 25% Recovery | Granite Waste @ 90% cbm |
|----------------------|------------------|--|--------------------------------|
| 1 st year | 6000 | 1500 | 4500 |
| 2 nd year | 12000 | 3000 | 9000 |
| 3 rd year | 4000 | 1000 | 3000 |
| 4 th year | 4000 | 1000 | 3000 |
| 5 th year | 4000 | 1000 | 3000 |
| Total | 30,000 | 7,500 | 22,500 |

- iii. As per the Mining plan submitted by Tvl.TAMIN Ltd., it is mentioned that the total mineable reserves @ 25% recovery is about 54,658 cbm for a total depth of 29 m. Production

for first 5 years Mining plan period is 7500 cbm at 25% recovery for a depth of 29m.

- iv. With regard to the dumping of waste during the Mining Plan period, it has been proposed to dump on the northern side of the lease boundary area.
- v. The Deputy Director, (G&M), Krishnagiri has furnished the details of existing quarries, expired / abandoned quarries and other proposal / applied quarries situated within 500 m radial distance of the subject lease area.
- vi. There are no archeological monuments within 300 m and no wildlife sanctuary within 1 km radial distance of the subject lease area.
- vii. Tvl.TAMIN Ltd., Chennai has furnished the details as follows:
 - a) There are 3 no. of existing pits and 6 no. of dump in the subject lease area.

| Volume of the pit in cbm | Permit issued in cbm | Stock detail in cbm | Waste / Reject dump in cbm | Difference in cbm |
|---------------------------------|-----------------------------|----------------------------|-----------------------------------|--------------------------|
| 335922.70 | 30206.743 | 2405.866 | 302375.5 | 934.591 |

- b) Tvl. TAMIN Ltd., has stated that the difference of 934.591 cbm @ 0.28 might have been reduced due to mining loss i.e, drilling waste and fragmentation used in the haul road and voids.
- viii. The applicant company has proposed to do quarry in the Northern part of the pit-I, Partially and partially outside the pit. The average depth of the pit in the proposed area is 5.50 and from the above depth quarry is to be conducted up to a maximum depth of 28 m in the first 5 years period.
- ix. Finally, the Deputy Director (G&M), Krishnagiri has recommended and forwarded the mining plan submitted by Tvl. Tamil Nadu Minerals Limited, Chennai for quarrying Colour Granite over an extent of 34.35.5 ha in S.F.No. 283(Part) of Sulamalai village, Bargur taluk,

Krishnagiri district to the Director of Geology and Mining, Chennai for approval.

5) The mining plan submitted by Tvl.TAMIN Ltd, and report of the Deputy Director (G&M), Krishnagiri have been examined with reference to the provisions of Rule 12, 13 and 15 of Granite Conservation and Development Rules, 1999 read with G.O.(Ms). No. 87, Industries (MMC.1), Department dated: 22.02.2001. Based on the recommendation of the Deputy Director (G&M), Krishnagiri the mining plan submitted by Tvl.TAMIN Ltd, is hereby approved subject to the following conditions in addition to the conditions stipulated in the precise area communication issued by the Government.

- i. This mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such Laws are made by the Central Government, State Government or any other authority.
- ii. The 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) Act 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- iii. This mining plan including progressive mine closure plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- iv. Provisions of the Mines Act, 1952 and the Rules and Regulations made there under including submission of notice of opening, appointment of manager and other statutory officials as required under Mines Act, 1952 shall be complied with.
- v. Provisions made under Mines and Minerals (Development & Regulation) Act, 1957, MMDR Amendment Act, 2015 and Granite conservation and Development Rules, 1999 made there under shall be complied with.
- vi. Relaxation to be obtained under Rule 106(2)(b) of Metalliferous Mines Regulations, 1961 from the Director of Mines Safety, if necessary.


- vii. If anything is found to be concealed as required by the Granite Conservation and Development Rules, 1999 and Tamil Nadu Minor Mineral Concession Rules, 1959 and proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- viii. A green belt should be constructed to prevent sound and air pollution due to the proposed quarrying activity by planting at least 250 seedlings all along the boundary the area.
- ix. No hindrance shall be caused to the adjacent Patta lands and Government poramboke lands if any while quarrying and transportation of granite if any.
- x. The applicant company shall strictly adhere to the statutory and safety requirements and the applicant company should ensure the periodical medical checkup to the quarry workers to safeguard them from quarry related diseases.
- xi. No blasting and transportation of materials in vehicles should be carried out from 5.00 PM to 7.00AM.
- xii. The waste materials generated during the course of quarrying should be dumped only within the lease hold area that will be earmarked for the purpose in the mining plan as per rule 31 of GCDR, 1999.
- xiii. The applicant company shall submit Scheme of Mining, mine closure plan and other statutory requirements within the time stipulated for submission of the above as per rules.
- xiv. The applicant company should fence the lease granted area with barbed wire before the execution of lease deed as follows.
 - The pillar post shall be firmly grounded with concrete foundation of height not less than 2 m with a distance between two pillars shall not be more than 3mts.
 - The applicant company shall incorporate the DGPS readings for the entire boundary pillars of the area and the same should be clearly shown in the mining plan.

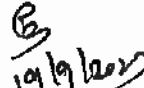
- A soft copy of the digitized map with DGPS readings should be submitted in CD to the Deputy Director (G&M), Krishnagiri.
- xv. The boundary stone should be fixed for the subject quarry should be fixed and the district administration / Geology and Mining Department should ensure that the quarrying operation should be restricted only within the area granted for lease.
 - xvi. Environment Clearance should be obtained from the competent authority in respect of the subject area as per rule 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and any other clearances if any.
 - xvii. As per rule 12 (v) of Mineral (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the applicant company shall at his own expense, erect, maintain and keep in repair all boundary pillars.
 - xviii. The conditions mentioned in G.O No. 79 Industries Department dated 06.04.2015 should be complied with.
 - xix. The applicant company may use mild explosives during quarrying, and storing of explosives if required, by obtaining valid license under explosive Acts and Rules.
 - xx. If any violation is found during quarrying operation, the penal provisions of Tamil Nadu Minor Mineral Concession Rules 1959 and other rules and act in force will attract.
 - xxi. Child labour should not be engaged in the quarry works and the quarry workers should be enrolled in the insurance scheme through the Labour Department.
 - xxii. The applicant company should remit the Stamp Duty as per the approved modified mining plan during the currency of the lease period.
 - xxiii. The earlier instances of irregular / illegal quarrying, if any, shall not be regularized through the approval of this document.
 - xxiv. The applicant company shall remit the penalty / cost of mineral / other dues if any as arrived by the District Collector / Deputy Director (G&M), Krishnagiri district.
 - xxv. Non adherence to any condition set-out above, the approval shall be deemed to have been withdrawn with immediate effect.

- xxvi. The applicant company should comply with the additional conditions stipulated in the Government of India, Ministry of Mines, Order No.11/02/2020, dated.14.01.2020 issued as per the Order of the Hon'ble Supreme Court of India, dated.08.01.2020 states that, "The Mining lease holders shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc".
- xxvii. The applicant company should carry out DGPS survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/MM4/2019 dated.01.02.2018 and subsequent corrigendum dated 13.08.2019.

Sd/-L.Nirmal Raj
Director of Geology and Mining

Forwarded / by Order


Additional Director


19/9/2023

Copy Submitted to:

1. The Additional Chief Secretary
to Government, (FAC),
Naturaal Resources Department,
4th Floor, Secretariat, Chennai-9.
2. The Director of Mines Safety,
3rd Floor, Left Wing,
New Additional Building,
CGO Complex, Shastri Bhawan,
Nungambakkam, Chennai - 06
3. The District Collector,
Krishnagiri District.

DIRECTORATE OF GEOLOGY AND MINING

From
Thiru.L.Nirmal Raj, I.A.S.,
Director,
Department of Geology and Mining,
Guindy, Chennai - 600 032.

To
The Managing Director,
Tvl. TAMIN Ltd., TWAD House,
No.31, Kamarajar Salai,
Chepauk, Chennai -05.

Rc. No.6262/MM4/2019, dated:19.09.2023

Sir,

Sub: Mines and Minerals – Minor Mineral – Colour Granite – Krishnagiri district - Bargur taluk – Sulamalai village - over an extent of 34.35.5 Ha of Government land – S.F.No.283(Part) – quarry lease application preferred by Tvl.TAMIN Ltd., Chennai – Precise area communicated by the Government – Mining Plan submitted by Tvl.TAMIN Ltd., Chennai – Recommended by the Deputy Director (G&M), Krishnagiri – Further particular requested – Furnished by the Deputy Director (G&M), Krishnagiri - Approval accorded.



- Ref:
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 2. Government letter no. 3821994/MME.1/2022-1 dated 14.02.2023.
 3. Tvl.TAMIN Ltd., Chennai letter Rc.No.717/ML2/2023 dated 11.05.2023.
 4. The Deputy Director of Geology and Mining, Krishnagiri letter Rc.No.974/2018 (Mines), dated 16.06.2023.
 5. The Commissioner of Geology and Mining letter Rc.No.6262/MM5/2019 dated 05.07.2023
 6. The Deputy Director of Geology and Mining, Krishnagiri letter Rc.No.974/2018 (Mines), dated 29.08.2023.

Kind attention is invited to the above references cited.

2) A quarry lease application preferred by Tvl.TAMIN Ltd., for quarrying black granite over an extent of 34.35.5 ha of Government land in S.F.No.283 (Part) of Sulamalai village, Bargur taluk, Krishnagiri district was forwarded to the Government by the Commissioner of Geology and Mining vide reference 1st cited for grant

of quarry lease under rule 8-C of TNMMCR, 1959. Now, the Government vide letter dated 14.02.2023 have communicated the precise area to an extent of 34.35.5 ha and requested the applicant company to submit the approved mining plan through the Commissioner of Geology and Mining and to produce environmental clearance obtained from the competent authority for the subject area for grant of quarry lease.

3) Accordingly, the mining plan submitted by Tvl.TAMIN Ltd., has been forwarded and recommended by the Deputy Director, (G&M), Krishnagiri vide reference 4th for the subject area for approval. In this regard, the Director of Geology and Mining vide letter dated 05.07.2023 requested to furnish the old pits dimension details formed in the previous lease period. The Deputy Director, (G&M), Krishnagiri vide reference 6th cited has submitted the old pit dimensions with total depth.

4) On Scrutinizing the mining plan submitted by Tvl.TAMIN Ltd. Chennai and the report of the Deputy Director (G&M), Krishnagiri, the following are submitted.

- i. The Deputy Director (G&M), Krishnagiri has reported that the draft mining plan is prepared by the Recognized Qualified Person and the details such as geological, mineable reserves, year wise production and development program have been incorporated in the draft mining plan.
- ii. The proposed year wise production:

| Year | ROM (cbm) | Production (m³) @ 25% Recovery | Granite Waste @ 90% cbm |
|----------------------|------------------|--|--------------------------------|
| 1 st year | 6000 | 1500 | 4500 |
| 2 nd year | 12000 | 3000 | 9000 |
| 3 rd year | 4000 | 1000 | 3000 |
| 4 th year | 4000 | 1000 | 3000 |
| 5 th year | 4000 | 1000 | 3000 |
| Total | 30,000 | 7,500 | 22,500 |

- iii. As per the Mining plan submitted by Tvl.TAMIN Ltd., it is mentioned that the total mineable reserves @ 25% recovery is about 54,658 cbm for a total depth of 29 m. Production

for first 5 years Mining plan period is 7500 cbm at 25% recovery for a depth of 29m.

- iv. With regard to the dumping of waste during the Mining Plan period, it has been proposed to dump on the northern side of the lease boundary area.
- v. The Deputy Director, (G&M), Krishnagiri has furnished the details of existing quarries, expired / abandoned quarries and other proposal / applied quarries situated within 500 m radial distance of the subject lease area.
- vi. There are no archeological monuments within 300 m and no wildlife sanctuary within 1 km radial distance of the subject lease area.
- vii. Tvl.TAMIN Ltd., Chennai has furnished the details as follows:
 - a) There are 3 no. of existing pits and 6 no. of dump in the subject lease area.

| Volume of the pit in cbm | Permit issued in cbm | Stock detail in cbm | Waste / Reject dump in cbm | Difference in cbm |
|--------------------------|----------------------|---------------------|----------------------------|-------------------|
| 335922.70 | 30206.743 | 2405.866 | 302375.5 | 934.591 |

- b) Tvl. TAMIN Ltd., has stated that the difference of 934.591 cbm @ 0.28 might have been reduced due to mining loss i.e, drilling waste and fragmentation used in the haul road and voids.
- viii. The applicant company has proposed to do quarry in the Northern part of the pit-I, Partially and partially outside the pit. The average depth of the pit in the proposed area is 5.50 and from the above depth quarry is to be conducted up to a maximum depth of 28 m in the first 5 years period.
- ix. Finally, the Deputy Director (G&M), Krishnagiri has recommended and forwarded the mining plan submitted by Tvl. Tamil Nadu Minerals Limited, Chennai for quarrying Colour Granite over an extent of 34.35.5 ha in S.F.No. 283(Part) of Sulamalai village, Bargur taluk,

Krishnagiri district to the Director of Geology and Mining, Chennai for approval.

5) The mining plan submitted by Tvl.TAMIN Ltd, and report of the Deputy Director (G&M), Krishnagiri have been examined with reference to the provisions of Rule 12, 13 and 15 of Granite Conservation and Development Rules, 1999 read with G.O.(Ms). No. 87, Industries (MMC.1), Department dated: 22.02.2001. Based on the recommendation of the Deputy Director (G&M), Krishnagiri the mining plan submitted by Tvl.TAMIN Ltd, is hereby approved subject to the following conditions in addition to the conditions stipulated in the precise area communication issued by the Government.

- i. This mining plan is approved without prejudice to any other Law applicable to the quarry lease from time to time whether such Laws are made by the Central Government, State Government or any other authority.
- ii. The 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) Act 1957, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Indian Explosives Act, 1884 (Central Act IV of 1884) and the rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- iii. This mining plan including progressive mine closure plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- iv. Provisions of the Mines Act, 1952 and the Rules and Regulations made there under including submission of notice of opening, appointment of manager and other statutory officials as required under Mines Act, 1952 shall be complied with.
- v. Provisions made under Mines and Minerals (Development & Regulation) Act, 1957, MMDR Amendment Act, 2015 and Granite conservation and Development Rules, 1999 made there under shall be complied with.
- vi. Relaxation to be obtained under Rule 106(2)(b) of Metalliferous Mines Regulations, 1961 from the Director of Mines Safety, if necessary.


- vii. If anything is found to be concealed as required by the Granite Conservation and Development Rules, 1999 and Tamil Nadu Minor Mineral Concession Rules, 1959 and proposal for rectification has not been made, the approval shall be deemed to have been withdrawn with immediate effect.
- viii. A green belt should be constructed to prevent sound and air pollution due to the proposed quarrying activity by planting at least 250 seedlings all along the boundary the area.
- ix. No hindrance shall be caused to the adjacent Patta lands and Government poramboke lands if any while quarrying and transportation of granite if any.
- x. The applicant company shall strictly adhere to the statutory and safety requirements and the applicant company should ensure the periodical medical checkup to the quarry workers to safeguard them from quarry related diseases.
- xi. No blasting and transportation of materials in vehicles should be carried out from 5.00 PM to 7.00AM.
- xii. The waste materials generated during the course of quarrying should be dumped only within the lease hold area that will be earmarked for the purpose in the mining plan as per rule 31 of GCDR, 1999.
- xiii. The applicant company shall submit Scheme of Mining, mine closure plan and other statutory requirements within the time stipulated for submission of the above as per rules.
- xiv. The applicant company should fence the lease granted area with barbed wire before the execution of lease deed as follows.
 - The pillar post shall be firmly grounded with concrete foundation of height not less than 2 m with a distance between two pillars shall not be more than 3mts.
 - The applicant company shall incorporate the DGPS readings for the entire boundary pillars of the area and the same should be clearly shown in the mining plan.


- A soft copy of the digitized map with DGPS readings should be submitted in CD to the Deputy Director (G&M), Krishnagiri.
- xv. The boundary stone should be fixed for the subject quarry should be fixed and the district administration / Geology and Mining Department should ensure that the quarrying operation should be restricted only within the area granted for lease.
 - xvi. Environment Clearance should be obtained from the competent authority in respect of the subject area as per rule 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and any other clearances if any.
 - xvii. As per rule 12 (v) of Mineral (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the applicant company shall at his own expense, erect, maintain and keep in repair all boundary pillars.
 - xviii. The conditions mentioned in G.O No. 79 Industries Department dated 06.04.2015 should be complied with.
 - xix. The applicant company may use mild explosives during quarrying, and storing of explosives if required, by obtaining valid license under explosive Acts and Rules.
 - xx. If any violation is found during quarrying operation, the penal provisions of Tamil Nadu Minor Mineral Concession Rules 1959 and other rules and act in force will attract.
 - xxi. Child labour should not be engaged in the quarry works and the quarry workers should be enrolled in the insurance scheme through the Labour Department.
 - xxii. The applicant company should remit the Stamp Duty as per the approved modified mining plan during the currency of the lease period.
 - xxiii. The earlier instances of irregular / illegal quarrying, if any, shall not be regularized through the approval of this document.
 - xxiv. The applicant company shall remit the penalty / cost of mineral / other dues if any as arrived by the District Collector / Deputy Director (G&M), Krishnagiri district.
 - xxv. Non adherence to any condition set-out above, the approval shall be deemed to have been withdrawn with immediate effect.

- xxvi. The applicant company should comply with the additional conditions stipulated in the Government of India, Ministry of Mines, Order No.11/02/2020, dated.14.01.2020 issued as per the Order of the Hon'ble Supreme Court of India, dated.08.01.2020 states that, "The Mining lease holders shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc".
- xxvii. The applicant company should carry out DGPS survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/MM4/2019 dated.01.02.2018 and subsequent corrigendum dated 13.08.2019.

Sd/-L.Nirmal Raj
Director of Geology and Mining

Forwarded / by Order

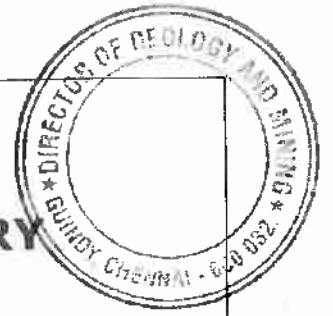

Additional Director


19/9/2023

Copy Submitted to:

1. The Additional Chief Secretary
to Government, (FAC),
Naturaal Resources Department,
4th Floor, Secretariat, Chennai-9.
2. The Director of Mines Safety,
3rd Floor, Left Wing,
New Additional Building,
CGO Complex, Shastri Bhawan,
Nungambakkam, Chennai - 06
3. The District Collector,
Krishnagiri District.

**MINING PLAN FOR
SULAMALAI GREY GRANITE QUARRY**



District : Krishnagiri
Taluk : Bargur
Village : Sulamalai
SF. Nos. : 283(Part)
Extent : 34.35.5Ha.

(UNDER RULE 12 & 13 OF GCDR, 1999)

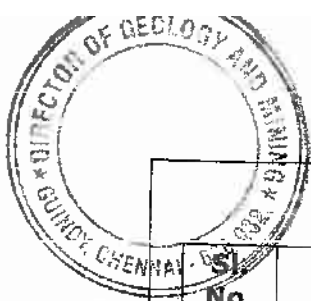
APPLICANT:



M/s. TAMIL NADU MINERALS LIMITED,
(An Undertaking of Government of Tamil Nadu)
No.31, KAMARAJAR SALAI,
CHEPAUK, CHENNAI – 600 005.

Name of the RQP : Dr.E.GANESAN, Ph.D, PGDELP.
Designation : DEPUTY MANAGER, TAMIN
Mobile No : 94888 55535





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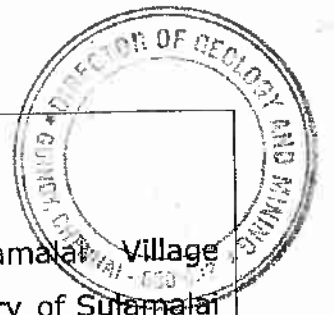
LIST OF PLATES

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DECLARATION BY NOMINATED OWNER

Certified that the Mining Plan in respect of Sulamalai Village SF.No.283(Part) over an extent of 34.35.5Ha Grey Granite Quarry of Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu State has been prepared in full consultation with me and I understood its contents and agree to implement the same in accordance with the law. The Mining plan has been prepared by Dr.E.Ganesan, a Recognized Qualified Person.

I hereby undertake that all the modifications as made in the Mining Plan by the RQP are deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

I request you to make further correspondences regarding the modifications of the Mining Plan with the said Recognized Qualified Person in the following address:

Dr. E. Ganesan, Ph.D, PGDELP
Deputy Manager (Mining Lease),
Recognized Qualified Person
Tamil Nadu Minerals Limited,
No.31, Kamarajar Salai,
Chepauk, Chennai-600 005.

**SUDEEP JAIN, I A S,
MANAGING DIRECTOR**

Dr. E. GANESAN, Ph.D, PGDELP
Deputy Manager (Mining Lease),
Recognized Qualified Person
Tamil Nadu Minerals Limited,
No.31, Kamarajar Salai,
Chepauk, Chennai-600 005.



CERTIFICATE FROM THE RECOGNIZED QUALIFIED PERSON

This is to certify that the provisions of Granite Conservation and Development Rules, 1999 and Tamil Nadu Minor Mineral Concession Rules, 1959 (Amendment) have been observed in the preparation of Mining Plan for Sulamalai Grey Granite Quarry over an total extent of 34.35.5Ha in SF.No.283(Part) of Sulamalai Village, Bargur Taluk, Krishnagiri District Tamil Nadu State has been prepared for


M/s. Tamil Nadu Minerals Limited,
No.31, Kamarajar Salai,
Chepauk, Chennai- 600 005.

Wherever specific permissions/exemptions/relaxations and approvals are required, the applicant will approach concerned authorities of Commissioner of Geology and Mining, Government of Tamil Nadu, Guindy, Chennai for such permissions/exemptions/relaxations and approvals.

It is also certified that information furnished in the above Mining Plan are true and correct to the best of my knowledge.

Place: Chennai

Date:



Dr. E.GANESAN, Ph.D., PGDELP
Qualified Person,
Tamil Nadu Minerals Limited
Chennai - 600 005.

**TAMIN,
MINING PLAN FOR
SULAMALAI GREY COLOUR GRANITE**

[Under Rule 8-C and 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 &
Rule 12 and 13 of Granite Conservation and Development Rules, 1999]



INTRODUCTION:

M/s Tamil Nadu Minerals Limited (An Undertaking of Government of Tamil Nadu hereinafter referred as TAMIN) was established in the year 1978 to carryout systematic mining and development of different minerals all over the State.

The present Mining Plan has been prepared for quarrying Grey Colour Granite over an total extent of 34.35.5Ha in SF.No.283(Part) of Sulamalai Village, Bargur Taluk, Krishnagiri District, Tamil Nadu for 20 years for which precise area communication has been granted vide Government Industries, Investment Promotion & Commerce (MME.1) Department, Letter No.3821994/MME.1/2022-1, dated:14.02.2023.

PART-I

1.0. MINING PLAN:

Name of Mine:

Sulamalai SF.No.283(Part) Grey Granite Quarry.

1.2 Particulars of Approval of Mining Plan under GCDR (indicate approval No. and date):

As the subject area is fresh lease, the question of approval of mining does not arise at this stage.

1.3 Date of commencement of Mining Operations:

Will be intimated after execution of the lease deed under rule 8-C(5)(c) of the Tamil Nadu Minor Mineral Concession Rules, 1959.

1.4 (a) Deficiencies, if any that existed in the approved Mining Plan to be taken note of and rectified by incorporating suitable proposal for implementation in the Scheme of Mining:

Not applicable at this stage as it is a fresh lease.

1.4(b) Review of Compliance of salient features of Mining Plan on chapter-wise basis bringing out marked deviations, if any and justifications/ reasons thereof. Items to be covered may include exploration, mine development, exploitation, afforestation programme, reclamation and rehabilitation, control of dust, noise and ground vibration and any other significant feature:

(1) Exploration:

All the parameters required for commercial exploitation of Grey Granite such as Occurrence, Geological Reserves, Colour, Textural Factors and Recovery Percentage etc, have already been established through the actual mining in this area past 20years. Therefore, no other exploration study has not been proposed to be undertaken ensuing Mining plan period in respect of Grey Granite mining.



(2) Mine Development:

| Sl. No | Year Pertaining to | Proposed generation of waste in the Mining Plan(M ³) | | |
|--------------|--------------------|--|---------------|---|
| | | Over Burden | Side Burden | Granite Rejects @ 75% (M ³) |
| 1. | First | -- | 3720 | 4500 |
| 2. | Second | -- | 13022 | 9000 |
| 3. | Third | -- | -- | 3000 |
| 4. | Fourth | -- | -- | 3000 |
| 5. | Fifth | -- | 13017 | 3000 |
| Total | | -- | 29,759 | 22,500 |

(3) Exploitation: (Production)

| Sl. No | Year pertaining to | ROM Proposed in the Mining Plan (M ³) | Saleable proposed @ 25% (M ³) |
|--------------|--------------------|---|---|
| 1. | First | 6000 | 1500 |
| 2. | Second | 12000 | 3000 |
| 3. | Third | 4000 | 1000 |
| 4. | Fourth | 4000 | 1000 |
| 5. | Fifth | 4000 | 1000 |
| Total | | 30,000 | 7,500 |

(4) Progressive quarry closure Plan:

As a Petrogenetic character, the depth persistence of the Grey Colour granite body in the mine area is beyond the workable limits. However, it is very difficult to operate granite dimensional stone mine economically below an average depth of 29m by observing the statutory provisions of Mine Safety Rules and Regulations. Hence in the proposed Mining Plan, only 29m average depth has been envisaged as 'Workable depth' for safe and economic mining.

However, it is proposed not to back fill the ultimate pit, in as much as good quantity of reserves is available below the workable depth of 29m and there is possibility of technology of up gradation in granite mining for greater depths in course of time for safe mining at economic cost beyond 29m depth. The pit boundaries shall be safely fenced and used for agricultural purpose when the pit is filled with underground see page or rain waters.

(5) Control of Dust, Noise and Ground Vibrations:

The quarrying operation is being carried out by semi-mechanized method with deployment of HEMM for development and production activities. Dust will be suppressed by adopting wet drilling method and water sprinkling in the haul road. As expansion rock breaking powder is using for splitting rock the noise level will be reduced. As TAMIN is using Milli Second Delay Detonator (MSDD) for blasting, the vibration observed in this quarry is negligible.

**Ground Water:**

Average ground water table of this area is 25m from ground level, whereas, TAMIN has proposed to operate the mine 29m from top of the hillock. Total height of the hillock is 129m. Hence, there is no chance to intersect the ground water table during the course of mining.

Significant Features:

TAMIN closely monitored the environmental factors systematically without degrading the land, water and air.

1.4(c) Review of the compliance position of conditions and stipulations imposed, if any, while approving the Mining Plan. In case of non-compliance / partial compliance, detailed justification reasons thereof may be furnished along with proposal for compliance in the ensuing period:

TAMIN always carries out its mining operations in conformity with the above Acts and Rules.

1.4(d) Review of compliance of violations pointed out after inspections made under GCDR, 1999 during last 5 years. The position emerging out of the yearly review of the Mining Plan while checking up implementation of the Mining Plan in the field shall also be taken note of at this stage:

At this stage not applicable.

1.4(e) Any other points requiring attention in the interest of proper mine design, development and conservation and environment and ecology of the area:

The proposed mine working is so designed in such a way mainly keeping in view of conservation of mineral, afforestation, environment, and ecology of the mine area.

PART - II**2.0. PROPOSAL UNDER MINING PLAN FOR THE 5 YEARS.****2.1 Name and Address of the Lessee:**

Name : M/s.Tamilnadu Minerals Limited,
Address : No. 31, Kamarajar Salai,
Chepauk, Chennai - 600 005.
Tamil Nadu State.
Phone : 044-2989 2018
e.Mail : tamin@tamingranites.com

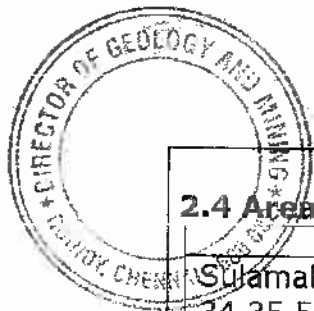
2.2 Name and address, registration number of the recognized persons together with validity date / person employed under Rule 13 of GCDR1999 who has prepared the Mining Plan:

RQP Certificate Enclosed.

2.3 Mineral (s) to be mined:

To mine the Grey Granite Mineral Blocks commercially known as 'Paradiso(MSO)'.





2.4 Area and date of expiry of lease:

| Details of Lease Area | Date of expiry of lease |
|--|--|
| Sulamalai Colour Granite Quarry over an extent of 34.35.5Ha in SF.No.283 (Part) of Sulamalai Village, Bargur Taluk, Krishnagiri District Tamil Nadu. | Will be informed after execution of lease deed |

2.5 Date of expiry of 5 year period for which Mining Plan approved on the last occasion:

Not applicable at this stage.

3.0. RESERVES:

3.1 Category-wise (Proved, Probable and Possible) Reserves Estimated in the earlier Mining Plan with grades:

| Sl. No | Geological Reserves | Mineable Reserves | Mineable Saleable Reserves @25% Recovery |
|--------|-------------------------|------------------------|--|
| 1. | 4,38,325 M ³ | 2,18,631M ³ | 54,658M ³ |

The above estimations arrived at on the basis of geological cross sections.

3.2 Depletion of Reserves:

Nil. At this Mining Plan state

3.3 Additional reserves established category wise (with basis and parameters considered):

No additional reserves.

3.4 Category wise updated reserve with grade (indicate and use grade with analysis) as well as marginal grades:

| Sl. No | Geological Reserves | Mineable Reserves | Mineable Saleable Reserves @25% Recovery |
|--------|-------------------------|------------------------|--|
| 1. | 4,38,325 M ³ | 2,18,631M ³ | 54,658M ³ |

The above estimations arrived at on the basis of geological cross sections updated as on 28.02.2023.

4.0. CONCEPTUAL MINING PLAN:

a) Anticipated Life of the Quarry:

| | | |
|--------------------------------|---|------------------------|
| Updated Mineable Reserves | : | 2,18,631M ³ |
| Anticipated Life of the Quarry | : | 18.2@19 years. |

b. Depicted on Mine Geological Plans and sections with necessary statement annexed supported by essential text, covering the basic & long term design features of mine covering exploration, mine development, optimum exploitation & utilization of the mineral, waste & sub-grade mineral management, and environmental aspects. The ensuing five year detailed programme should but be a part of the conceptual overall Mining Plan.



i) Mine Year wise Production:

| Year | ROM(M ³) | Recovery @25%(M ³) | Granite Waste @75% (M ³) |
|--------------|----------------------|--------------------------------|--------------------------------------|
| First | 6000 | 1500 | 4500 |
| Second | 12000 | 3000 | 9000 |
| Third | 4000 | 1000 | 3000 |
| Fourth | 4000 | 1000 | 3000 |
| Fifth | 4000 | 1000 | 3000 |
| Total | 30,000 | 7,500 | 22,500 |

ii) Optimum exploitation and utilization of the Mineral:

The optimum quantity of mineable reserves as ROM is 2,18,631M³.

iii) Waste and sub-grade Mineral Management:

The dumps will be maintained not exceeding 5m height and the angle of slope of dumps will be at 45° from horizontal. The waste dump has been earmarked in the Plate No. 4.

**iv) Environmental Aspects:-
Afforestation Programme:**

TAMIN will get Environmental Clearance (EC) from the SEIAA as directed by the Govt after approval of this mining plan and necessary native species of sapling will be planted as per the EC letter.

The quarrying operation is being carried out by semi-mechanized method with deployment of HEMM for development and production activities.

Ultimate Pit dimensions of the Quarry at top and bottom are tabulated below:

| Sl. No | SF.No | Section line | Ultimate Pit Dimensions at Top (m) | | Ultimate Pit Dimensions at Bottom (m) | | Depth |
|--------|------------|--------------------------------|------------------------------------|-------|---------------------------------------|-------|-------|
| | | | Length | Width | Length | Width | |
| 1. | 283 (Part) | ABCDE-GH,IJ,LM,OP,QR,ST and UV | 576 | 66 | 552 | 38 | 29 |

5.0 MINING:

5.1 Salient Description of the present mining methods:

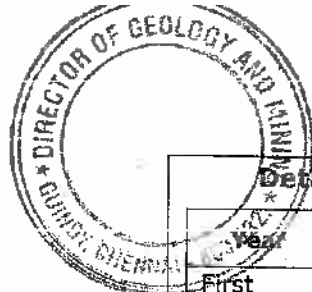
The Quarrying work will be carried out under the direct supervision of our Statutory Mining Personal of TAMIN as approved by the DGMS under MMR,1961.

5.2 Yearly pit-wise development plan proposed for the next five years, depicted on plans and sections (ore and overburden to be shown clearly along with geological formations encountered depicting also the design and layout of the mine benches in case of opencast mining).

It has been discussed in chapter 4.0 b i)

5.3 Yearly pit-wise development plan proposed for next five years along with grade. Blending proposal, if any, may be indicated:

Nil



Details of depth and benches proposed during the Mining Plan Period:

| Year | Section | R.L Proposed (m) | Depth Details(m) | | | | No. of Benches |
|--------|---------|--------------------|------------------|----------|-----------|-------|----------------|
| | | | Present | Proposed | Remaining | Total | |
| First | RS&AB | 136.349 to 128.349 | 0.50 | 8.00 | 25.00 | 33.50 | 2 |
| Second | RS&CD | 137.477 to 131.477 | 0 | 6.00 | 27.50 | 33.50 | 1 |
| Third | RS&EF | 139.793 to 131.343 | 1.30 | 8.45 | 23.75 | 33.50 | 1 |
| Fourth | RS&GH | 139.793 to 134.793 | 0.50 | 5.00 | 28.00 | 33.50 | 1 |
| Fifth | RS&GH | 134.793 to 129.293 | 5.50 | 5.40 | 22.60 | 33.50 | 1 |

5.4 Any change in proposed method of mining and deployment of machinery, together with reasons thereof:

The quarrying operation is being carried out by semi-mechanized method with deployment of HEMM for development and production activities under Regulation 106

6.0. HANDLING OF WASTE /SUB- GRADE MATERIAL:

6.1 Rate of yearly generation of waste and proposals for disposal of waste for next five years. (indicate sequence of dumping with necessary plan and sections)

The waste generated during the mining operation i.e., side burden, granite rejects and the non-recoverable / un-sized boulders and rubbles etc, will be dumped in the suitable area already selected. The area for disposal of waste rock has been identified in northern portion of the lease area. The unsold blocks are kept within the boundary on the country rock area.

6.1.1 Build-up of dumps from year to year to be shown in yearly plans and sections with description of the method & manner of disposal of waste rock, designed capacity & height of individual dumps and precautions envisaged for confinement of the dumps together with design details of the protective works:

The dumps will be maintained not exceeding 5m height and the angle of slope of dumps will be at 45° from horizontal. The waste dump has been earmarked in the Plate Nos. 4.

6.2 Rate of yearly generation of sub-grade mineral with reference to threshold values and proposals for stacking for next five years. (Submit necessary plan/sections.) (In case variations from the recommended threshold values of IBM, please give adequate justification and reasons).

There is no sub-grade mineral produced. Commercial and small blocks are also proposed to be sold while handling granite waste.

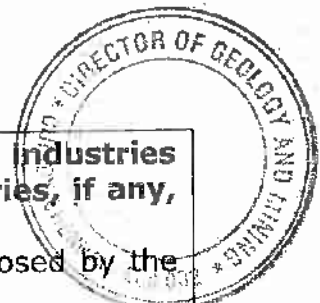
6.3 Quantity and grade of sub-grade material available at the mine as on date duly supported by plans & sections and descriptive statement inclusive of the precautions adopted for storage.

-Not Applicable-

7.0. USE OF MINERAL:

7.1 Changes proposed in the use of mineral, if any, with reasons:

TAMIN will sell dimensional blocks and waste as per Government approvals in place.



7.2 Changes in the specification, if any, imposed by the user industries and or specifications required in the case of new user industries, if any, to be given:

As mentioned above there is no change in specification imposed by the user industries.

7.3 Efforts made for utilization of the sub-grade mineral including fines:

Commercial blocks and small blocks will also be sold in addition to defect free blocks.

8.0. MINERAL BENEFICIATION:

8.1 Results of any beneficiation investigations conducted and changes made in existing mineral beneficiation plant and tailing disposals, if any, with benefits expected (necessary) flow - sheet and tailing dam designs etc., to be submitted as applicable:

- Not Applicable -

8.2 Beneficiation test done, if any, on sub-grade mineral including fines and proposals for installation of new or additional beneficiation facility, if any (furnish process details in brief along with expected tailings loss):

- Not Applicable -

9.0. ENVIRONMENTAL MANAGEMENT PLAN:

The following observations are made for Environmental Management Plan:

i) Existing land use pattern:

The lease area manifests hilly terrain with low lying plain dry lands. The altitude of the area is 622m (Maximum) above MSL and the area receives average annual rainfall of about 985mm.

ii) Land Reclamation & Rehabilitation:-

The mine-pit will be utilized as a water reservoir for agriculture purpose.


iii) Waste Dump management:-


The waste can be dumped on Northern portion of the lease boundary.

10.0. ANY OTHER INFORMATION:

- NIL -

Date:


19/9/2023
DIRECTOR
Department of Geology & Mining
Guindy, Chennai - 600 032.


Dr. E. GANESAN, Ph.D., PGDELP
Qualified Person,
Tamil Nadu Minerals Limited
Chennai - 600 005.


12/11/2023

This Mining Plan is Approved
Subject to the Conditions/ Stipulation
Indicated in the Mining Plan Approval
Letter No. 62.62/min/1/2019 Dated 19-9-2023





Annexure No - A³⁴⁵

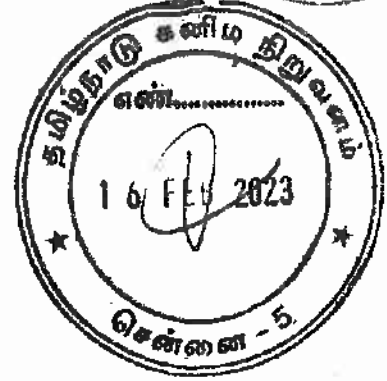
Industries, Investment
Promotion & Commerce
(MME.1) Department
Secretariat, Chennai - 600 009



Letter No.3821994/MME.1/2022-1, Dated: 14.02.2023

From
Thiru S.Krishnan, I.A.S.,
Additional Chief Secretary to Government.

To
✓ M. Tamil Nadu Minerals Limited,
31, Kamarajar Salai,
TWAD House,
Chepauk, Chennai - 600 005.



Sir,

Sub: Industries, Investment Promotion & Commerce - Mines and Minerals - Minor Mineral - Grey Granite - Krishnagiri District - Bargur Taluk - Sulamalai Village - Over an extent of 34.35.5 hectares of Government poramboke land in S.F.No. 283 (Part) - Quarry Lease Application preferred by Tvl.TAMIN - Precise Area Communicated - Approved mining Plan and Environmental Clearance - Called for.

- Ref: 1. Your Quarry Lease Application dated 06.06.2018.
2. From the District Collector, Krishnagiri, File Roc.No.974/2018/Mines, dated 20.09.2019.
3. From the Commissioner of Geology and Mining, File Rc.No.6262/MM4/2019, dated 18.12.2022.

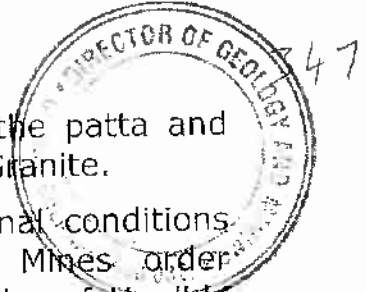
I am directed to refer your quarry lease application first cited and to state that in the references second and third cited, the District Collector, Krishnagiri and the Commissioner of Geology and Mining respectively have recommended the quarry lease application for grant of quarry lease for quarrying Grey Granite over an extent of 34.35.5 hectares of Government poramboke land in S.F.No. 283 (Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District for a period of 20 years under Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959.

2. The Government, after carefully examined the recommendations of the District Collector, Krishnagiri and the Commissioner of Geology and Mining, have decided to communicate precise area for over an extent of 34.35.5 hectares of Government poramboke land in S.F.No.283 (Part) in Sulamalai Village, Bargur Taluk, Krishnagiri District and accordingly, the Government hereby communicate the above said area as Precise Area under sub-rule (3)(b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 for grant of quarry lease.



3. I, therefore, request you to furnish the Approved Mining Plan for the above-mentioned Precise Area through the Commissioner of Geology and Mining within a period of 3 months as per sub-rule (3)(b) of Rule 8-C of the Tamil Nadu Minor Mineral Concession Rules, 1959 and to produce Environmental Clearance obtained from the competent authority for the above said area for grant of quarry lease subject to the following conditions:-


- 1) 7.5 m safety distance should be maintained all along the boundary and patta land on the north and north-western side.
- 2) 50 m safety distance should be maintained to telephone line and EB line on the Eastern side of the applied area.
- 3) 50 m safety distance should be maintained for odai on the Northern side of the lease applied area.
- 4) The four boundaries of the applied area are fixed and the quarrying activity should be restricted within the area granted on lease.
- 5) Barbed wire fencing or Compound wall should be erected all along the boundary of the lease granted area.
- 6) The waste materials generated during the course of quarrying should be dumped only within the lease hold area.
- 7) Environment Clearance should be obtained from the competent authority in respect of the subject area as per rule 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the notification of the Ministry of Environment and Forest and any other clearances if any.
- 8) The applicant company should submit Mining Due Clearance Certificate for the year 2018-19 to 2022-23 after one year as per the G.O.(D).No.43, Industries (MME.1) Department, dated 16.05.2021 in which the Government has given exception to Tvl. TAMIN Limited for remittance of arrear dues to the Government.
- 9) The applicant company should fence the lease granted area with barbed wire before the execution of lease deed as follows:-
 - ❖ The pillar post shall be firmly grounded with concrete foundation of height not less than 2 meters with a distance between two pillars shall not be more than 3 meters.
 - ❖ The applicant company shall incorporate the DGPS readings for the entire boundary pillars of the area and the same should be clearly shown in the mining plan.
 - ❖ A soft copy of the digitized map with DGPS readings should be submitted in the CD to the Deputy Director (G&M), Krishnagiri.
- 10) The conditions mentioned in G.O.(Ms).No.79, Industries (MMC.1) Department, dated 06.04.2015 should be complied with.
- 11) As per rule 12(V) of Mineral (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016, the applicant shall at their own expenses erect, maintain and keep in repair all the boundary pillars.



- 12) The applicant company should not cause hindrance to the patta and Government lands while quarrying and transportation of Granite.
- 13) The applicant company should comply with the additional conditions stipulated in the Government of India, Ministry of Mines order No.11/02/2020, dated 14.01.2020 issued as per the order of Hon'ble Supreme Court of India, dated 08.01.2020 which states that "The mining lease holders shall after ceasing mining operations, under take re-grassing the mining area and any other area which may have been disturbed due to this mining activities and restore the land to a condition which is fit for growth of fodder, flora and fauna etc.,"
- 14) The applicant company should carry out DGPS Survey and erection of RCC boundary pillars as per the norms stipulated in the EOI notification in Rc.No.2921/MM4/2019, dated 1.02.2018 and subsequent corrigendum dated 13.8.2019 before execution of quarry lease.
- 15) Tvl. TAMIN Limited shall produce current mining dues clearance certificate as per the affidavit filed along with this application, on grant of mining lease for this area but, before execution of lease deed.
- 16) The applicant company should submit latest Board of Directors details before execution of lease deed.

4. The District Collector, Krishnagiri shall obtain a sworn-in-affidavit from the applicant company containing the above conditions before execution of lease deed and also ensure that the instructions issued in Government Letter No.12789/MMB.2/2002-7, Industries Department, Dated 9.1.2003 are complied with.

Yours faithfully,


15.2.2023

for Additional Chief Secretary to Government

6/15
14/12/2022

Copy to:
The Commissioner of Geology and Mining,
Guindy, Chennai - 600 032.

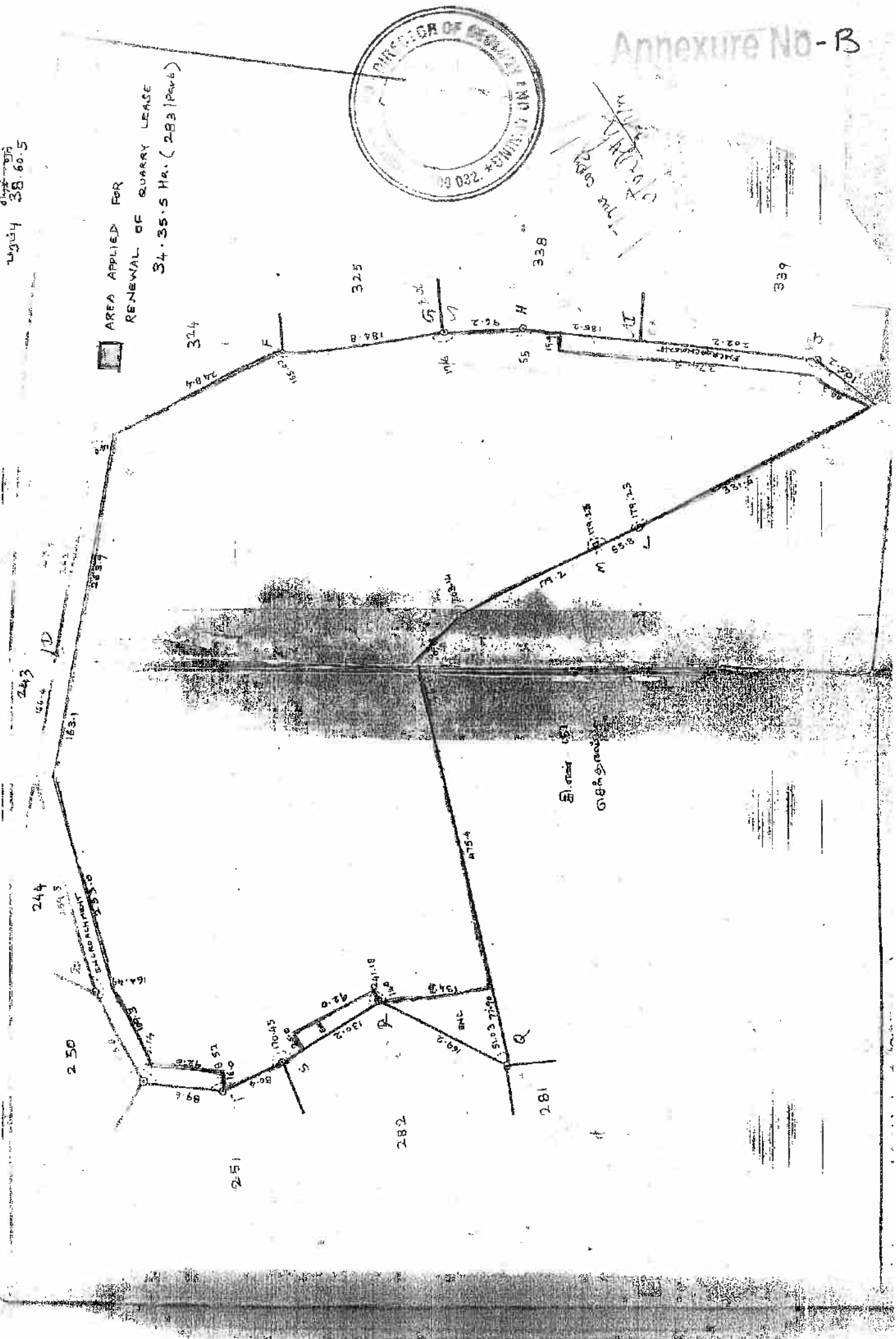
The District Collector,
Krishnagiri.



Handwritten notes: '1/10/2014', '2882', '2883', '2884', '2885', '2886', '2887', '2888', '2889', '2890', '2891', '2892', '2893', '2894', '2895', '2896', '2897', '2898', '2899', '2900'.

Handwritten notes: '1500', '38 60.5', '38 60.5'.

AREA APPLIED FOR
RENEWAL OF QUARRY LEASE
34.35.5 Ha. (2883 (Part))



Handwritten note: '2883'.

Handwritten note: '243'.

Handwritten note: '244'.

Handwritten note: '250'.

Handwritten note: '251'.

Handwritten note: '282'.

Handwritten note: '281'.

District : Krishnagiri

Survey No : 283

321

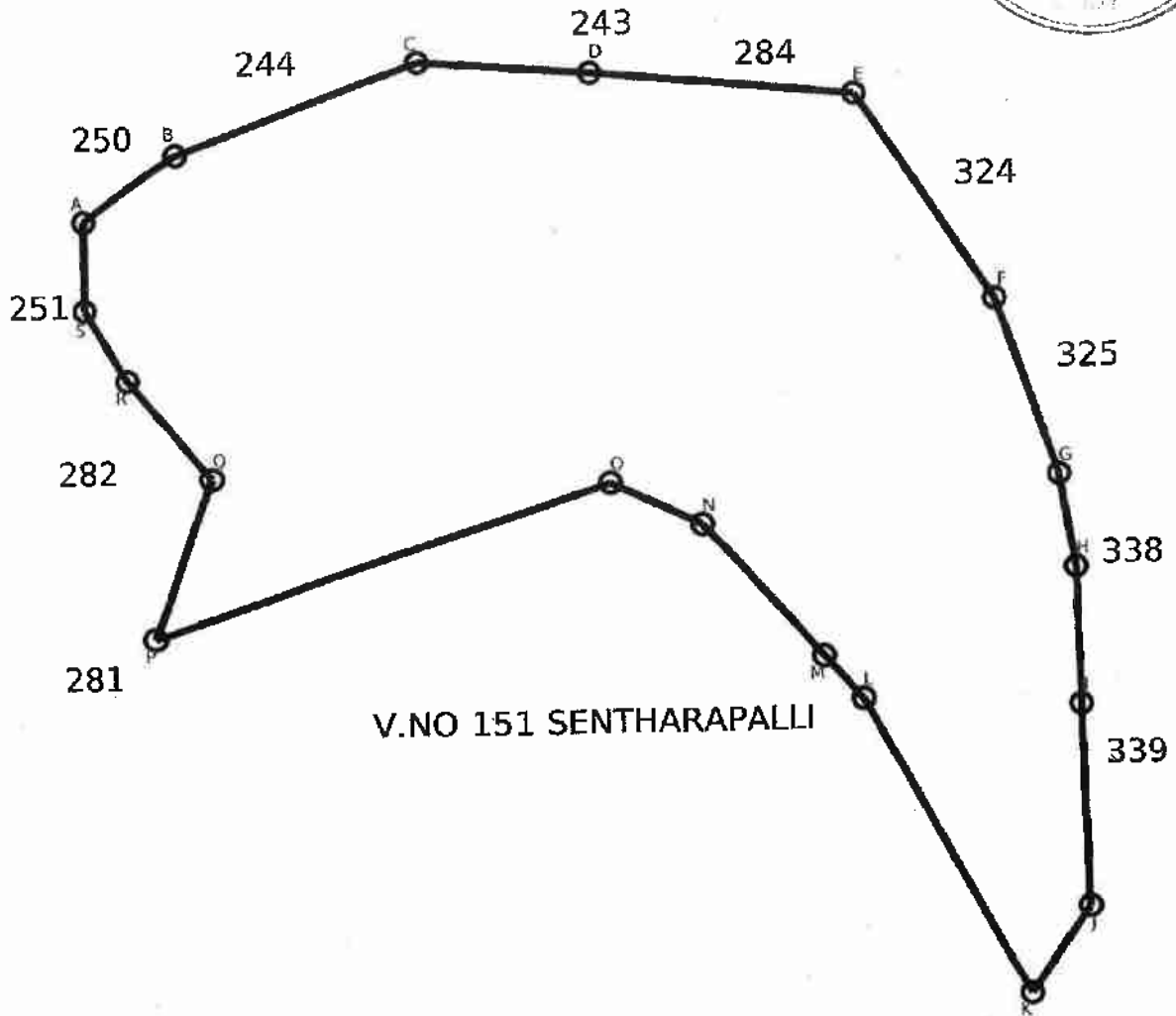
Taluk : BARGUR

Annexure No

Area : Hect 46 Ares 36.66

Village : Sulamalai [118]

Scale : 1 : 7155



Date of Issue: 17-11-2022 12:42:01

260 fv.1

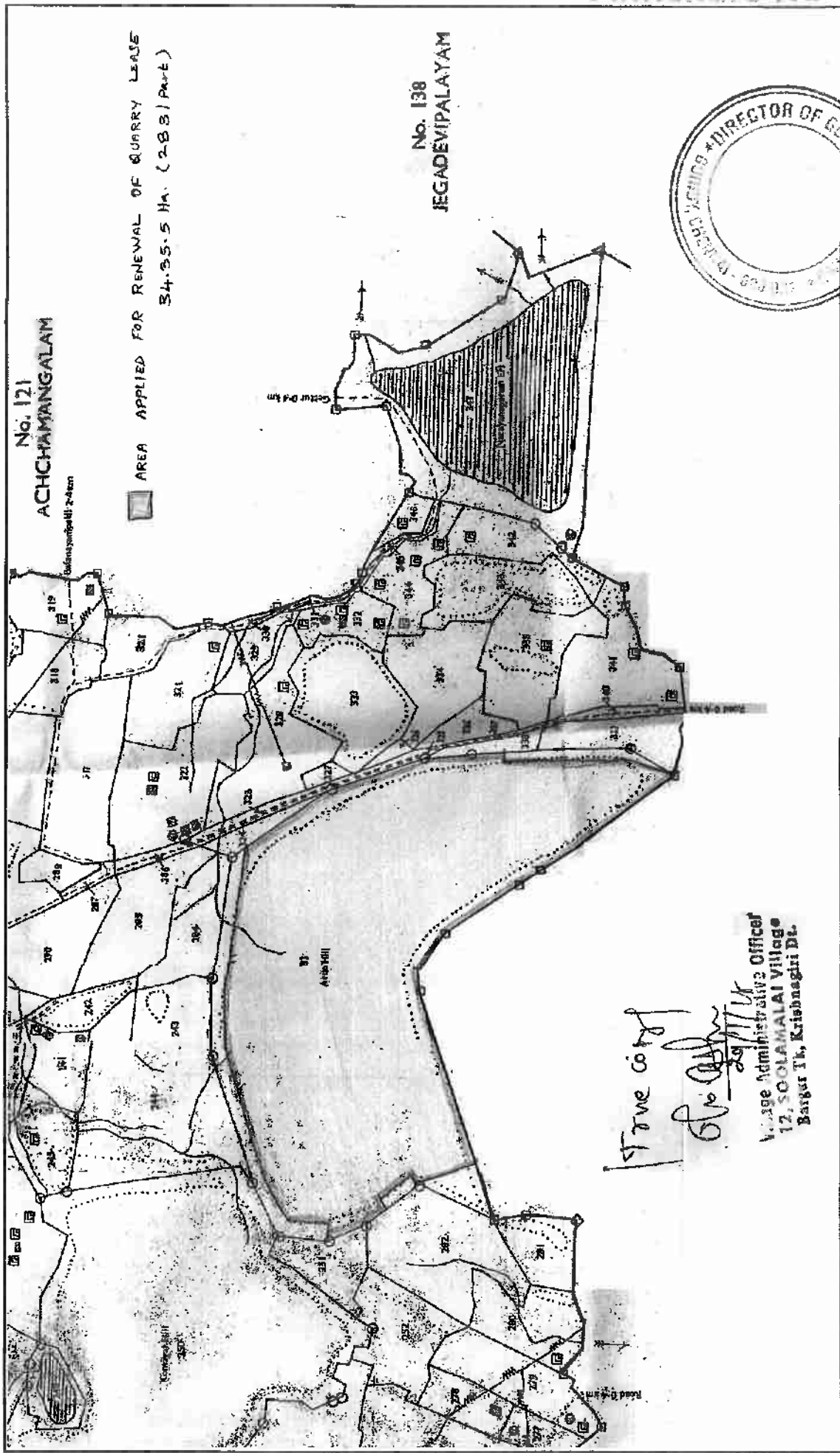


Survey and Settlement Department, Government of TamilNadu

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අංක : 150

අංක : 150

අංක : 150

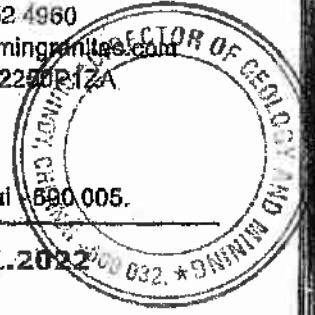


Annexure No : F

Tamil Nadu Minerals Limited
(A Government of Tamil Nadu Undertaking)



Tel : 044-29862018 / 28511972
Fax : 91-44-2852 4960
E-mail : tamin@taminminerals.com
GSTIN : 33AABCT2290P1ZA



Regd. Office : No. 31, Kamarajar Salai, "TWAD House" Chepauk, Post Box No. 2961, Chennai - 600 005.

Rc.No.9456/ML1/2017

Dated:03.11.2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Shri.E.Ganesan is working as Deputy Manager (Mining Lease) in Tamil Nadu Minerals Limited, Chennai. His qualification and experience is given below.

1. Name : E.Ganesan
2. Qualification : i.M.Sc.(Geology)
ii.M.B.A
iii.Second Class Manager
Certificate of Competency (Restricted)
Certificate No.SMR/5390, date: 06.05.2014
3. Experience :

| Sl. No | Name of the project | Designation | Nature of work | Period | Total period |
|-----------------------------------|--|---------------------------|--|--------------------------|---|
| 1. | Sivaganga Graphite Mine | Project Officer (Trainee) | Mining Geologist & over all mining supervision | 23.06.1993 to 23.06.1994 | Years : 01 Month: 00 Days : 00 |
| 2. | - Do - | Project Officer | - Do - | 24.06.1994 to 09.07.1997 | Years : 03 Month: 00 Days : 15 |
| 3. | Lakmana Naicken Patti Quartz & Feldspar Mine | Project Officer | Mining Geologist & over all mining supervision in statutory capacity | 03.05.2002 to 23.08.2002 | Years : 00 Month: 03 Days : 20 |
| 4. | Periyannagalur Limestone Mine | Divisional Manager I/c | - Do - | 17.10.2012 to 14.07.2013 | Years : 00 Month: 08 Days : 27 |
| Total Period of experience | | | | | Years : 05 Month: 01 Days : 02 |

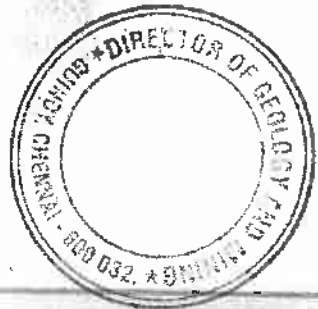
The Regional Controller of Mines, Indian Bureau of Mines, Chennai Region has already issued the Recognized Qualification Certificate to him vide RQP/MAS/036/88/B dated 21.10.2014.

This certificate is issued only for preparation and Modification of Mining Plan etc., under Rule, 15 of the Minerals (other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and under Rule 13 of the Granite Conservation and Development Rules, 1999.

for Tamil Nadu Minerals Ltd,

Subeer Tam
Nominated Owner/Managing Director

RQP CERTIFICATE



GOVERNMENT OF INDIA
 MINISTRY OF MINES
 INDIAN BUREAU OF MINES

सूचक नामों का नाम / Name of RQPs

ANNEXURE I



B. Khanna

K. Shanmugam

अभियंताओं के प्रमाणपत्र प्रदान करने के लिए
 अधिसूचना संख्या 1960 का विवरण प्रदान है।
GRANTS: 337% OF RECOGNITION AS QUALITY PERFORM
 (Under Rule 22C of Mines Act, 1952)

1. श्री बी. सुभाषिणिय, सेलक्वाम डीएम विभाग, भंडारा
 S.D.M. Subhashiniam, Section Grade Divisional Manager

2. श्री. श्री. सुभाषम, सेलक्वाम डीएम विभाग, भंडारा
 K. Shanmugam, Section Grade Senior Project Officer

यह प्रमाणपत्र, जो कि 1960 के अधिनियम के अंतर्गत प्रदान किया गया है, को प्राप्त करने के लिए, उम्मीदवार को अपने क्षेत्र के डीएम के पास प्रमाणपत्र प्रदान करने के लिए अनुरोध किया जाता है।
 यह प्रमाणपत्र, जो कि 1960 के अधिनियम के अंतर्गत प्रदान किया गया है, को प्राप्त करने के लिए, उम्मीदवार को अपने क्षेत्र के डीएम के पास प्रमाणपत्र प्रदान करने के लिए अनुरोध किया जाता है।



P. Giridhar

E. Ganesan

3. श्री पी. गिरिधर, सेलक्वाम डीएम विभाग, भंडारा
 P. Giridhar, Section Grade Divisional Manager

4. श्री ई. गणेशन, सेलक्वाम डीएम विभाग, भंडारा
 E. Ganesan, Section Grade Project Officer

यह प्रमाणपत्र, जो कि 1960 के अधिनियम के अंतर्गत प्रदान किया गया है, को प्राप्त करने के लिए, उम्मीदवार को अपने क्षेत्र के डीएम के पास प्रमाणपत्र प्रदान करने के लिए अनुरोध किया जाता है।
 यह प्रमाणपत्र, जो कि 1960 के अधिनियम के अंतर्गत प्रदान किया गया है, को प्राप्त करने के लिए, उम्मीदवार को अपने क्षेत्र के डीएम के पास प्रमाणपत्र प्रदान करने के लिए अनुरोध किया जाता है।



V. Venkateshwar

A. Ramesh

5. श्री वेंकटेश्वर, सेलक्वाम डीएम विभाग, भंडारा
 V. Venkateshwar, Project Officer

6. श्री ए. रामेश, सेलक्वाम डीएम विभाग, भंडारा
 A. Ramesh, Section Grade Project Officer

Date: 21.10.2014

Regional Controller of Mines
 Indian Bureau of Mines
 Bhindara Region

Tamil Nadu Minerals Limited

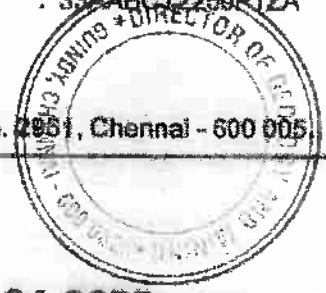
(A Government of Tamil Nadu Undertaking)



Annexure No - 61

Tel : 044-29862018 / 28511972
Fax : 91-44-2852 4960
E-mail : tamin@tamingranites.com
GSTIN : 33AAEC12259P1ZA

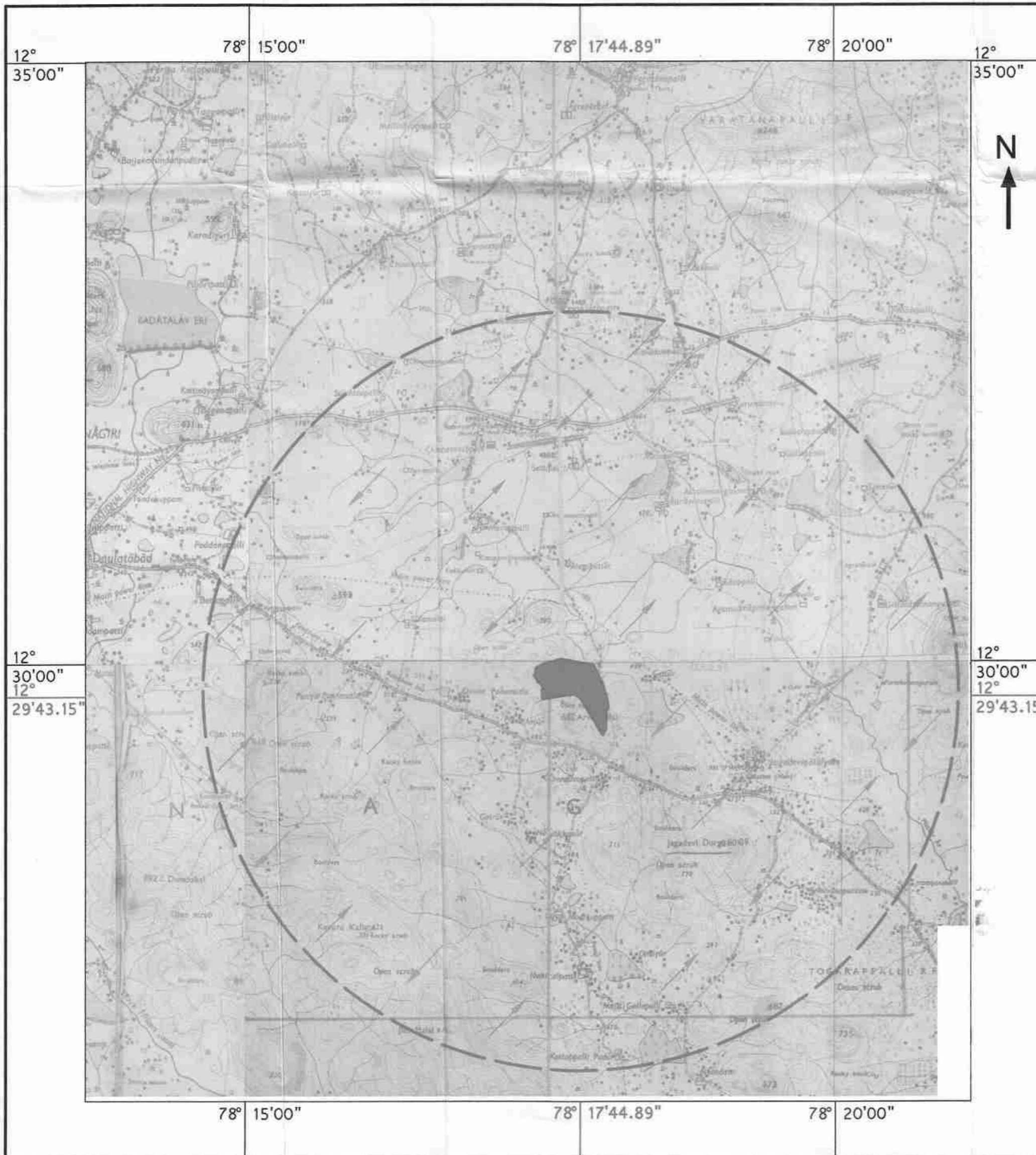
Regd. Office : No. 31, Kamarajar Salai, "TWAD House" Chepauk, Post Box No. 2851, Chennai - 600 005.



LIST OF BOARD OF DIRECTORS AS ON 10-04-2023

| SL.NO | Name of the Director | Designation | Date of Appointment |
|-------|--|-------------------|---------------------|
| 1 | SUDEEP JAIN | Managing Director | 11/01/2022 |
| 2 | SARANYAN KRISHNAN | Nominee Director | 05/11/2021 |
| 3 | NAGARAJAN GOVINDAN | Nominee Director | 17/09/2018 |
| 4 | RENGASAMY PITCHAI MUTHU | Director | 02/05/2019 |
| 5 | PONNUSAMY SANKARA KUMAR | Director | 02/05/2019 |
| 6 | SIGY THOMAS VAIDHYAN | Nominee Director | 05/07/2021 |
| 7 | JAGADEESHWARAN JAYAKANTHAN | Nominee Director | 28/06/2022 |
| 8 | GANESAN KALAIARASI ARUN SUNDAR THAYALAN | Nominee Director | 28/06/2021 |
| 9 | POOJA KULKARNI | Nominee Director | 15/02/2023 |

K. PRIYATHARISINI
Company Secretary
Membership No: A29095



INDEX

- MINING LEASE APPLIED BOUNDARY
 - SAFETY ZONE 5Km. RADIUS
 - ROAD
 - UNMETALLED ROAD
 - RESERVOIR
 - STREAM
 - CONTOUR
- WIND DIRECTION**
- WINTER
 - SUMMER

DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE HOLD AREA : 34.35.5Ha.

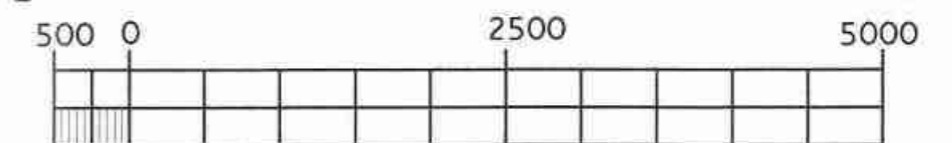


PLATE No. 1

**SULAMALAI GREY GRANITE QUARRY
 KEY PLAN**

PART OF TOPO SHEET NO: 57L/2,3,6&7

EASTERN LONGITUDE FROM 78°17'29.01" TO 78°17'60.77"
 NORTHERN LATITUDE FROM 12°29'26.94" TO 12°29'59.36"



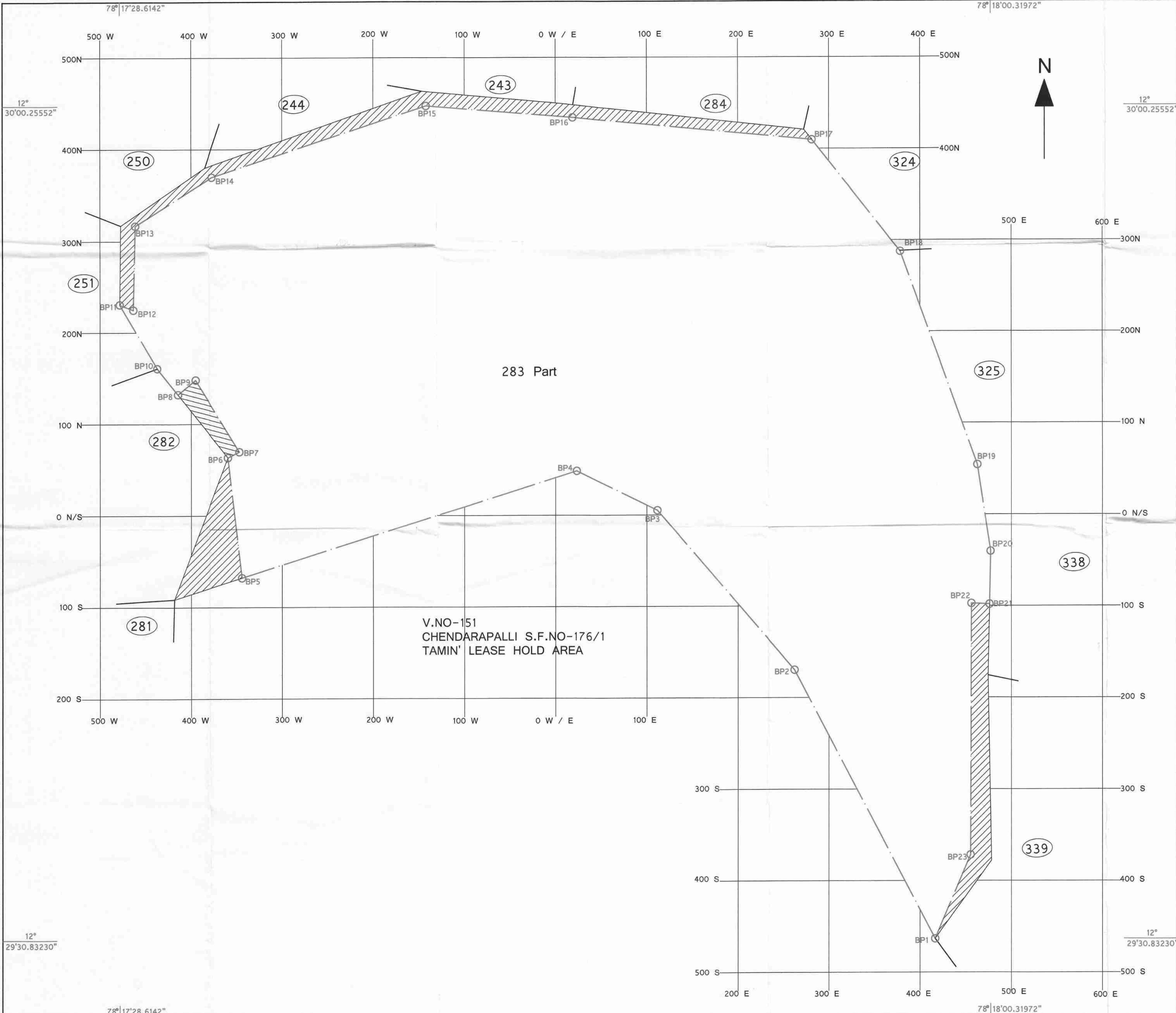
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 ALL DIMENSIONS ARE IN METRES

APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct.

M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789.
 Tamil Nadu Minerals Limited.

Dr. E.GANESAN, Ph.D., PGDELP
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.



LEGEND

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---------------------------|-----------|
| 1. | LEASE HOLD BOUNDARY | — · — · — |
| 2. | PATTA LAND (IN SF.NO 283) | ▨ |

V.NO-151
CHENDARAPALLI S.F.NO-176/1
TAMIN' LEASE HOLD AREA



DISTRICT : KRISHNAGIRI
TALUK : BARGUR
VILLAGE No. : 118
VILLAGE NAME : SULAMALAI
FIELD No. : 283 (Part)
LEASE HOLD AREA : 34.35.5Ha.

[PLATE No.1a]

SULAMALAI GREY GRANITE QUARRY
LEASE PLAN
MINING PLAN

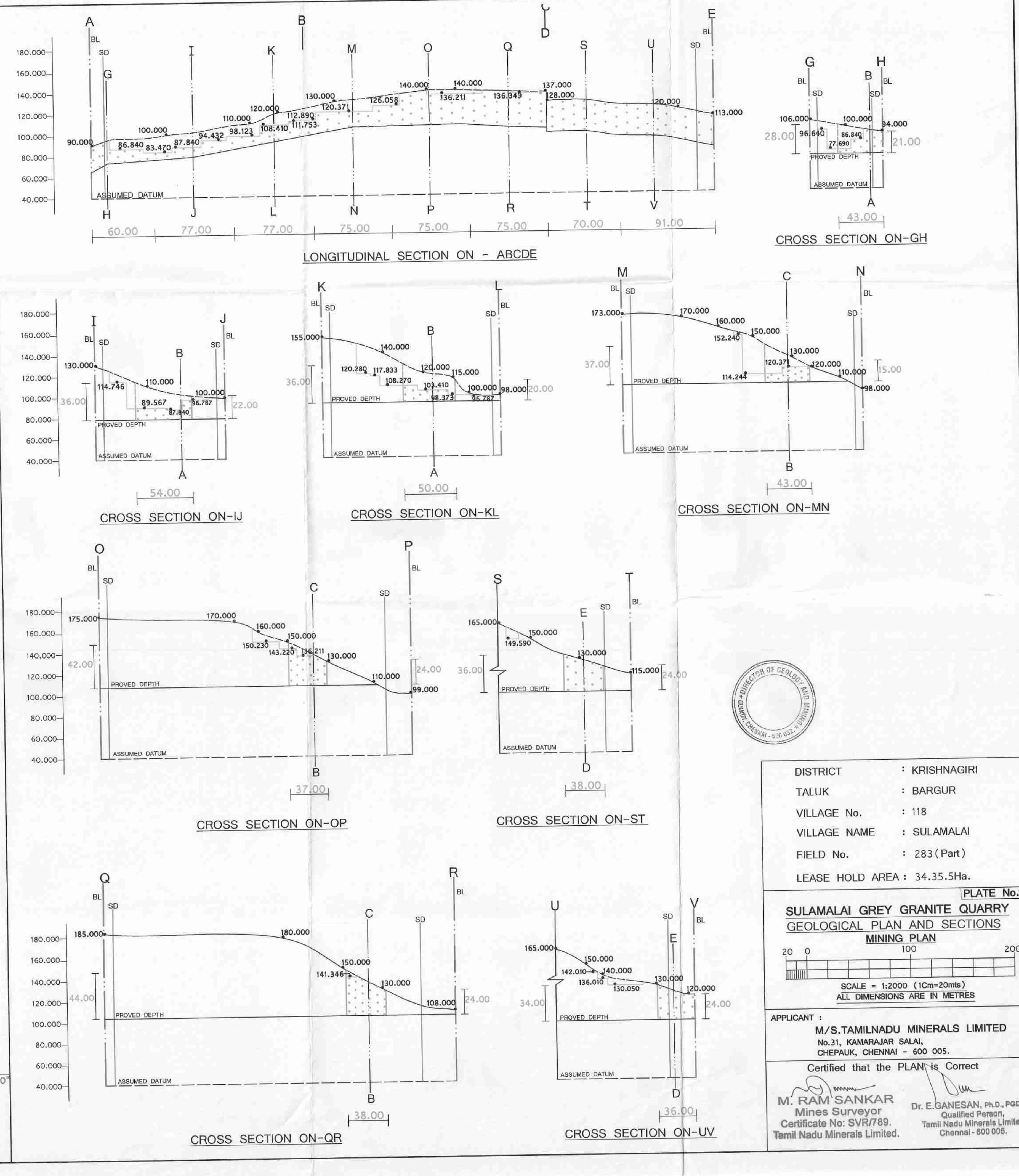
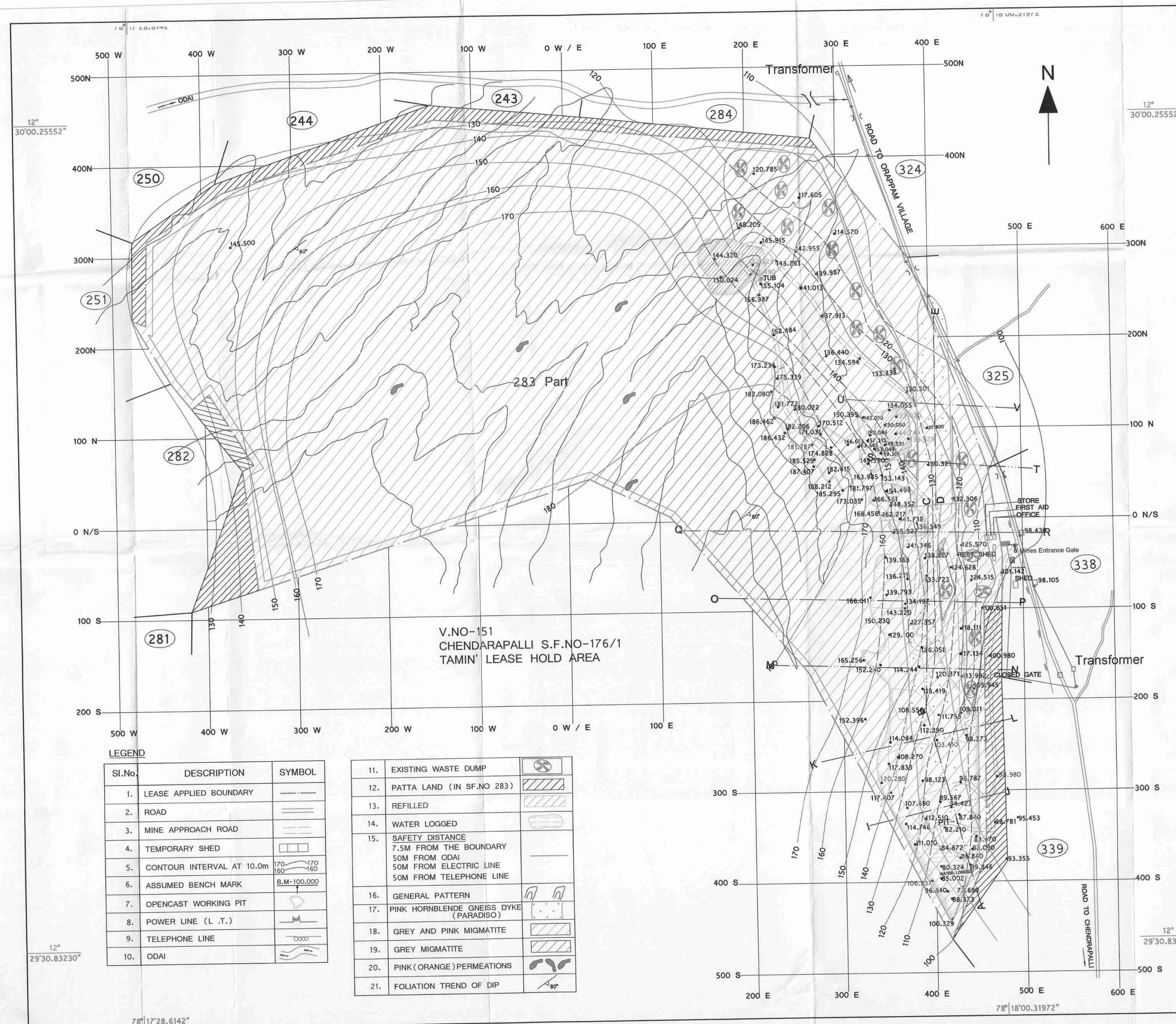
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ALL DIMENSIONS ARE IN METRES

APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
No.31, KAMARAJAR SALAI,
CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

M. RAM SANKAR
Mines Surveyor
Certificate No: SVR/789.
Tamil Nadu Minerals Limited.

Dr. E.GANESAN, Ph.D., PGDLP
Qualified Person,
Tamil Nadu Minerals Limited
Chennai - 600 005.



LEGEND

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---------------------------|--------------|
| 1. | LEASE APPLIED BOUNDARY | --- |
| 2. | ROAD | == |
| 3. | MINE APPROACH ROAD | --- |
| 4. | TEMPORARY SHED | □ |
| 5. | CONTOUR INTERVAL AT 10.0m | 170 160 |
| 6. | ASSUMED BENCH MARK | B.M.-100.000 |
| 7. | OPENCAST WORKING PIT | ○ |
| 8. | POWER LINE (L.T.) | — — — |
| 9. | TELEPHONE LINE | —o—o—o— |
| 10. | ODAI | ~ |

| | | |
|-----|---|---|
| 11. | EXISTING WASTE DUMP | ⊗ |
| 12. | PATTA LAND (IN SF.NO 283) | ▨ |
| 13. | REFILLED | ▨ |
| 14. | WATER LOGGED | ⊖ |
| 15. | SAFETY DISTANCE 7.5M FROM THE BOUNDARY 50M FROM ODAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | — |
| 16. | GENERAL PATTERN | ⊕ |
| 17. | PINK HORNBLENDE GNEISS DYKE (PARADISO) | ▨ |
| 18. | GREY AND PINK MIGMATITE | ▨ |
| 19. | GREY MIGMATITE | ▨ |
| 20. | PINK (ORANGE) PERMEATIONS | ⊕ |
| 21. | FOLIATION TREND OF DIP | ↘ |



DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE HOLD AREA : 34.35.5Ha.

SULAMALAI GREY GRANITE QUARRY
GEOLOGICAL PLAN AND SECTIONS
MINING PLAN

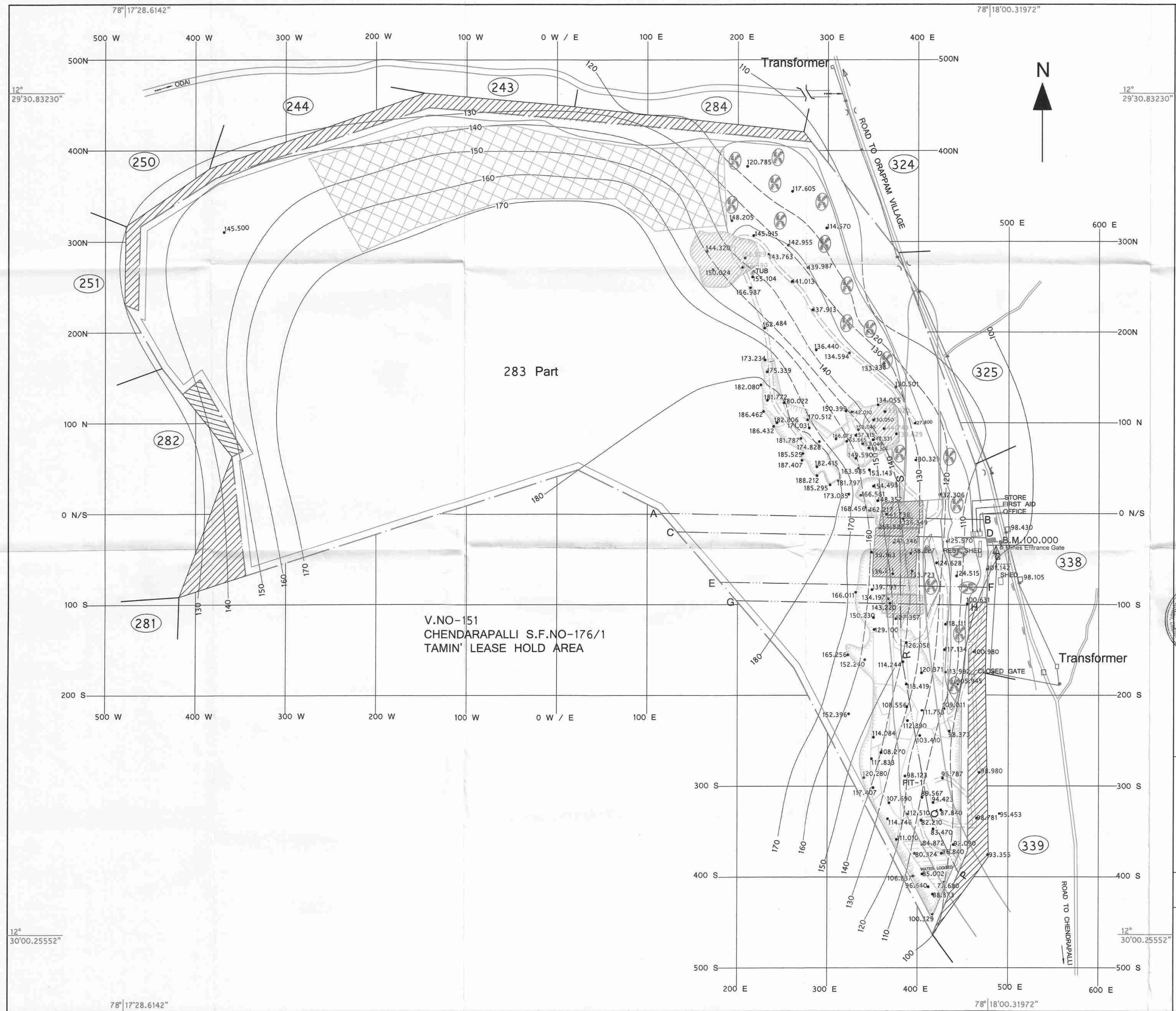
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 ALL DIMENSIONS ARE IN METRES

APPLICANT :
M/S.TAMILNADU MINERALS LIMITED
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789.
 Tamil Nadu Minerals Limited
 Chennai - 600 005.

Dr. E.GANESAN, Ph.D., PGDEL
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.



LEGEND

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---|-------------|
| 1. | LEASE APPLIED BOUNDARY | --- |
| 2. | ROAD | == |
| 3. | MINE APPROACH ROAD | --- |
| 4. | TEMPORARY SHED | □ |
| 5. | CONTOUR INTERVAL AT 10.0m | 170-170 |
| 6. | ASSUMED BENCH MARK | B.M-100.000 |
| 7. | OPENCAST WORKING PIT | ▽ |
| 8. | POWER LINE (L.T.) | — — — |
| 9. | TELEPHONE LINE | —o—o—o— |
| 10. | ODAI | ~ |
| 11. | EXISTING WASTE DUMP | ⊙ |
| 12. | PATTA LAND (IN SF.NO 283) | ▨ |
| 13. | REFILLED | ▩ |
| 14. | WATER LOGGED | ⊖ |
| 15. | SAFETY DISTANCE 7.5M FROM THE BOUNDARY 50M FROM ODAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | — |
| 16. | PINK HORNBLENDE GNEISS DYKE (PARADISO) | ⌒ |
| 17. | PROPOSED WASTE DUMP | ▩ |

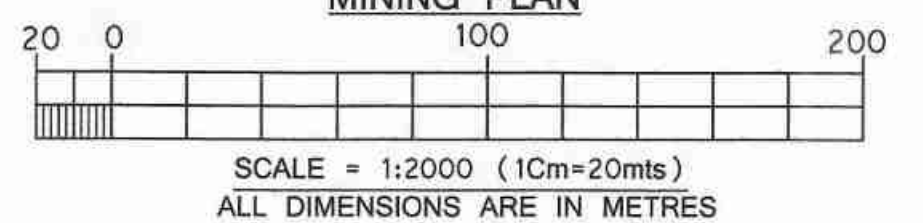
YEARWISE PRODUCTION/DEVELOPMENT

- FOR THE FIRST YEAR
- FOR THE SECOND YEAR
- FOR THE THIRD YEAR
- FOR THE FOURTH YEAR
- FOR THE FIFTH YEAR



DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE HOLD AREA : 34.35.5Ha.

**SULAMALAI GREY GRANITE QUARRY
 YEARWISE PRODUCTION/DEVELOPMENT
 PLAN FOR THE FIRST FIVE YEARS
 MINING PLAN**

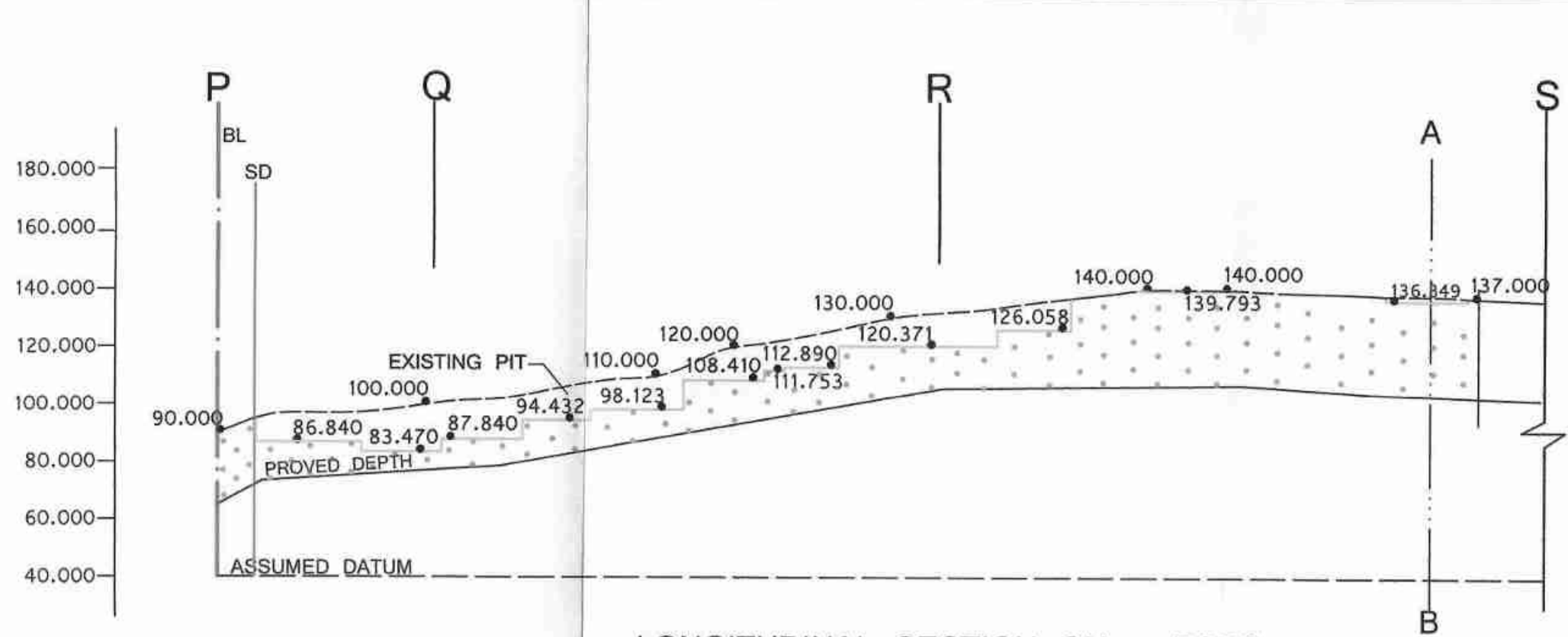


APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

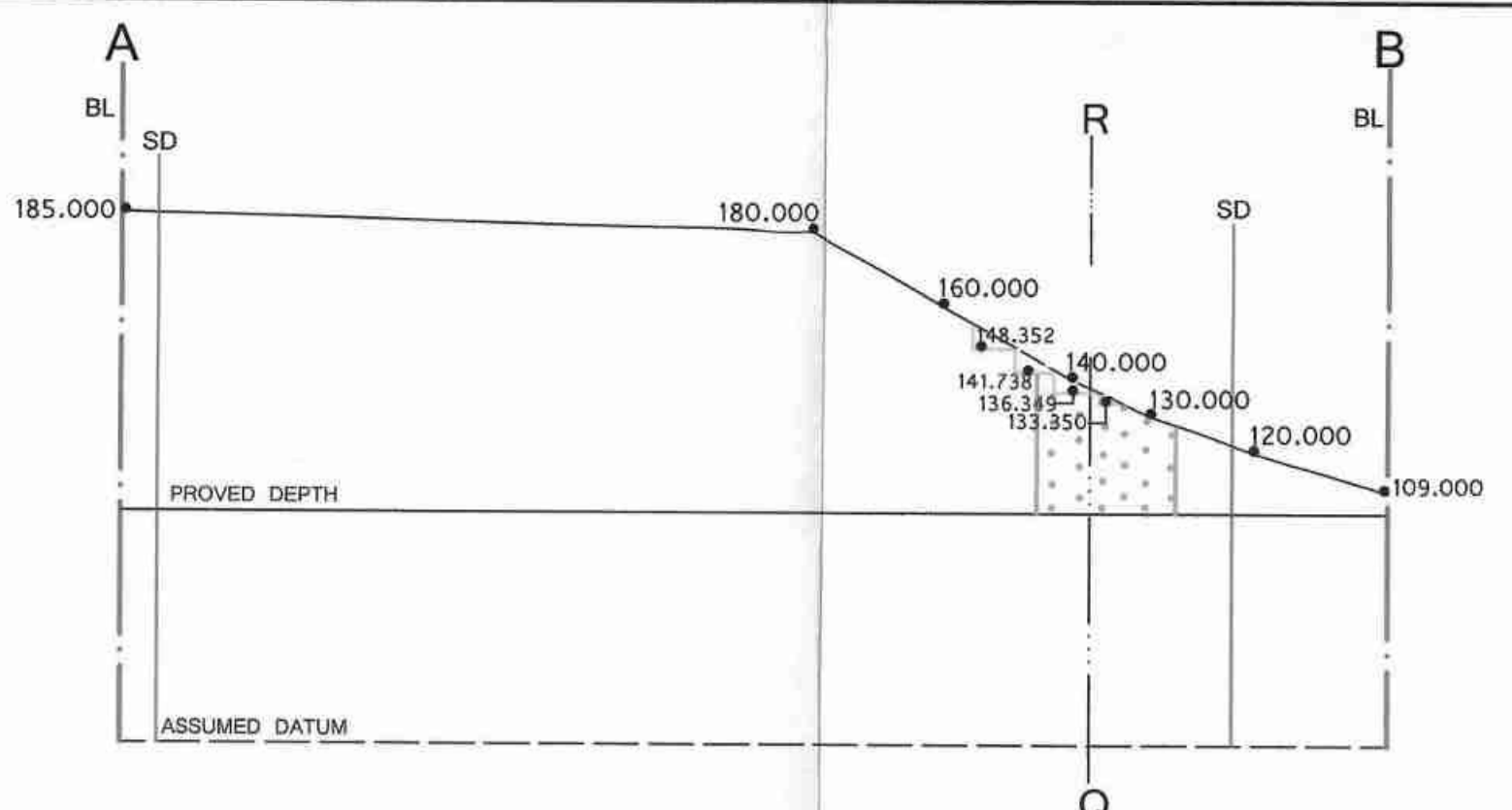
M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789.
 Tamil Nadu Minerals Limited.

Lt. E.GANESAN, Ph.D., PGD&P
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.

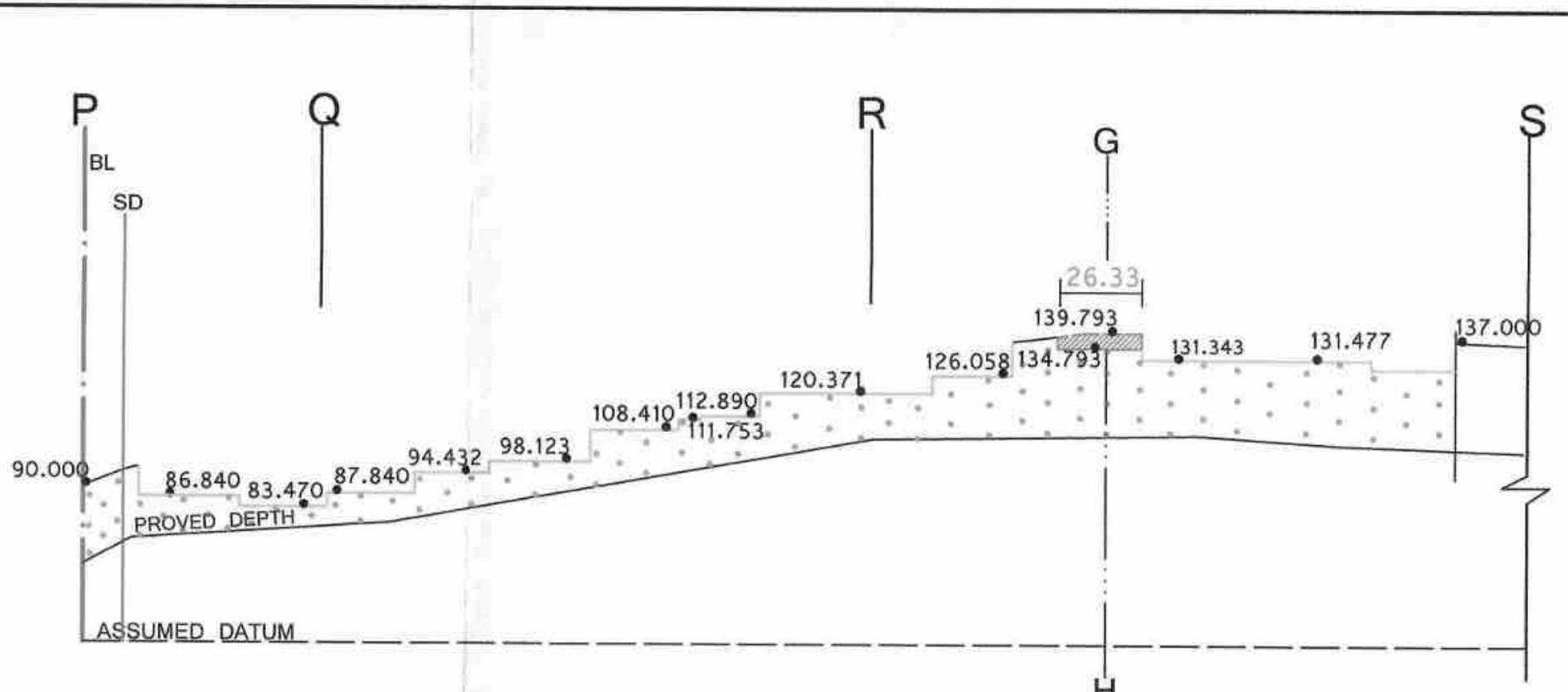


LONGITUDINAL SECTION ON - PQRS

PIT AT THE BEGINIG OF THE FIRST YEAR

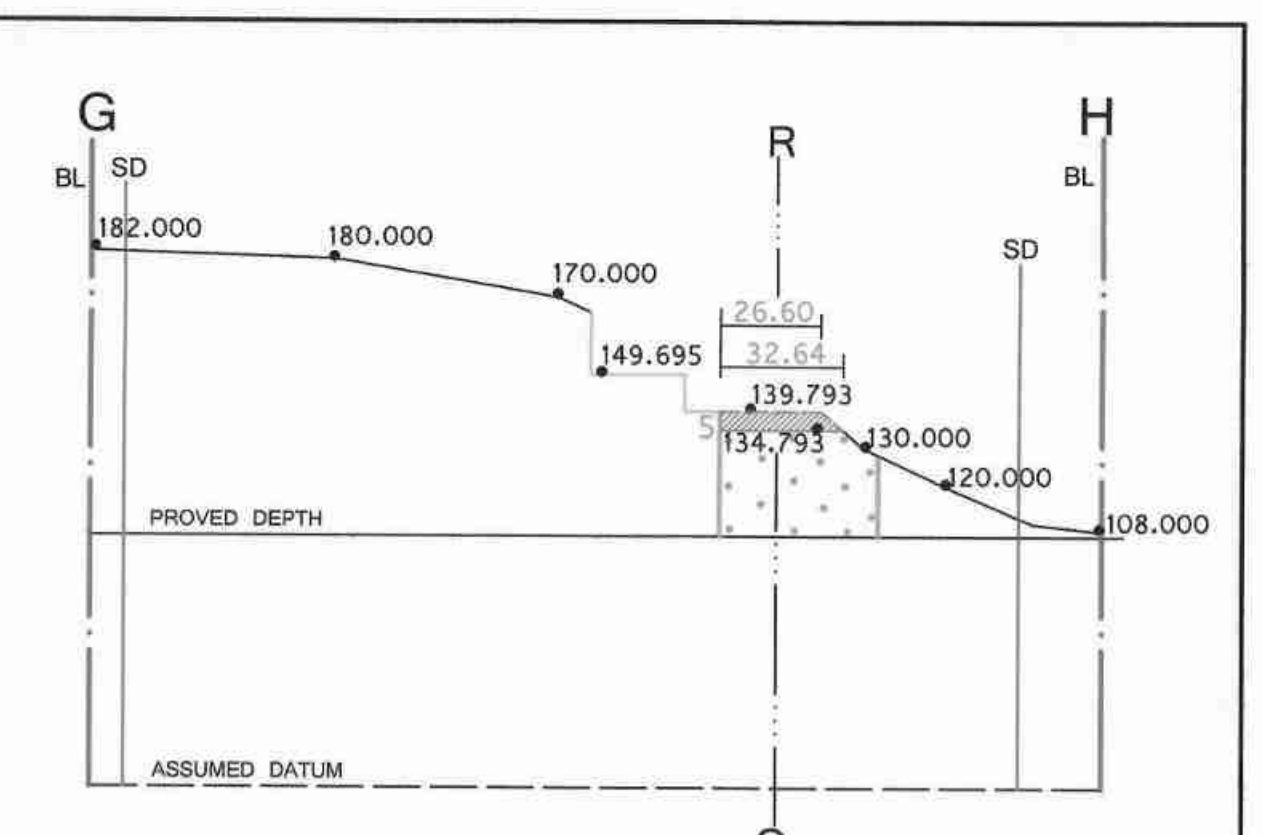


CROSS SECTION ON-AB

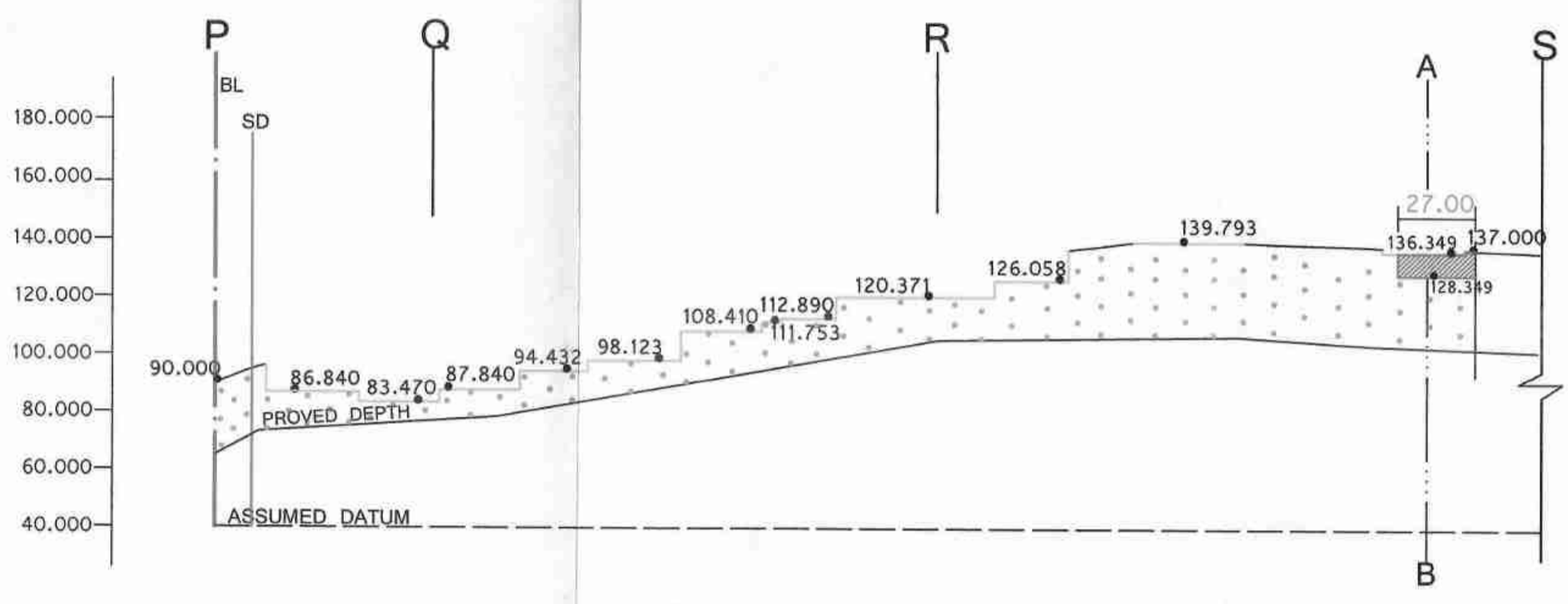


LONGITUDINAL SECTION ON - PQRS

PRODUCTION/DEVELOPMENT FOR THE FOURTH YEAR

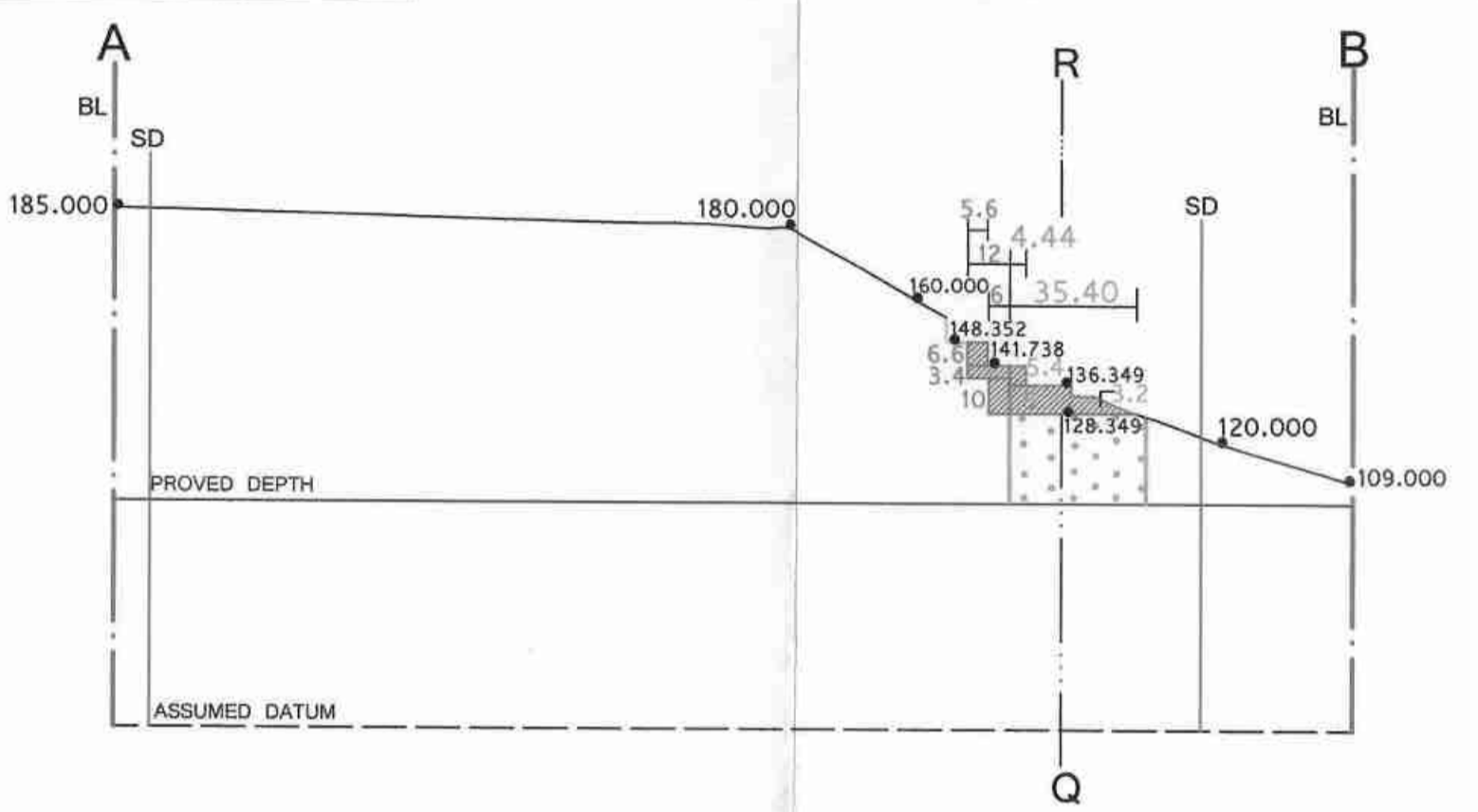


CROSS SECTION ON-GH

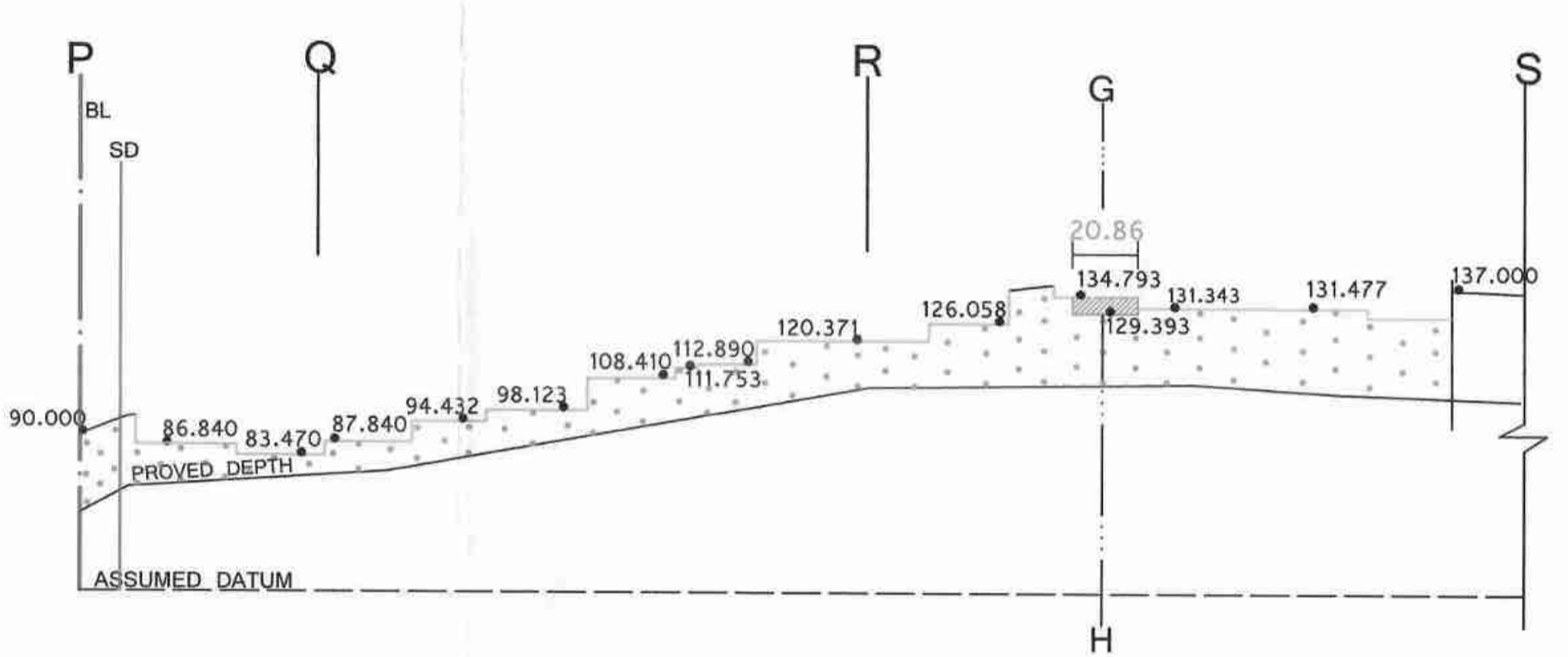


LONGITUDINAL SECTION ON - PQRS

PRODUCTION/DEVELOPMENT FOR THE FIRST YEAR

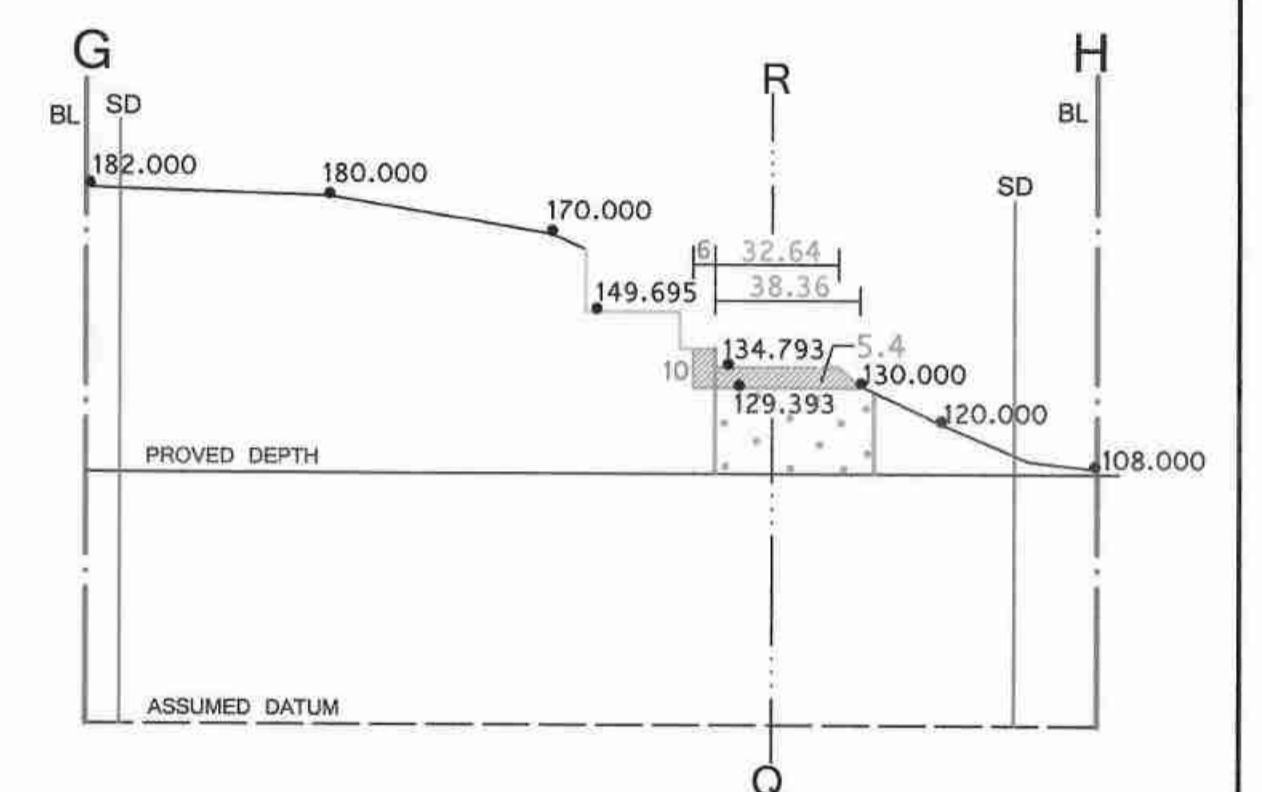


CROSS SECTION ON-AB

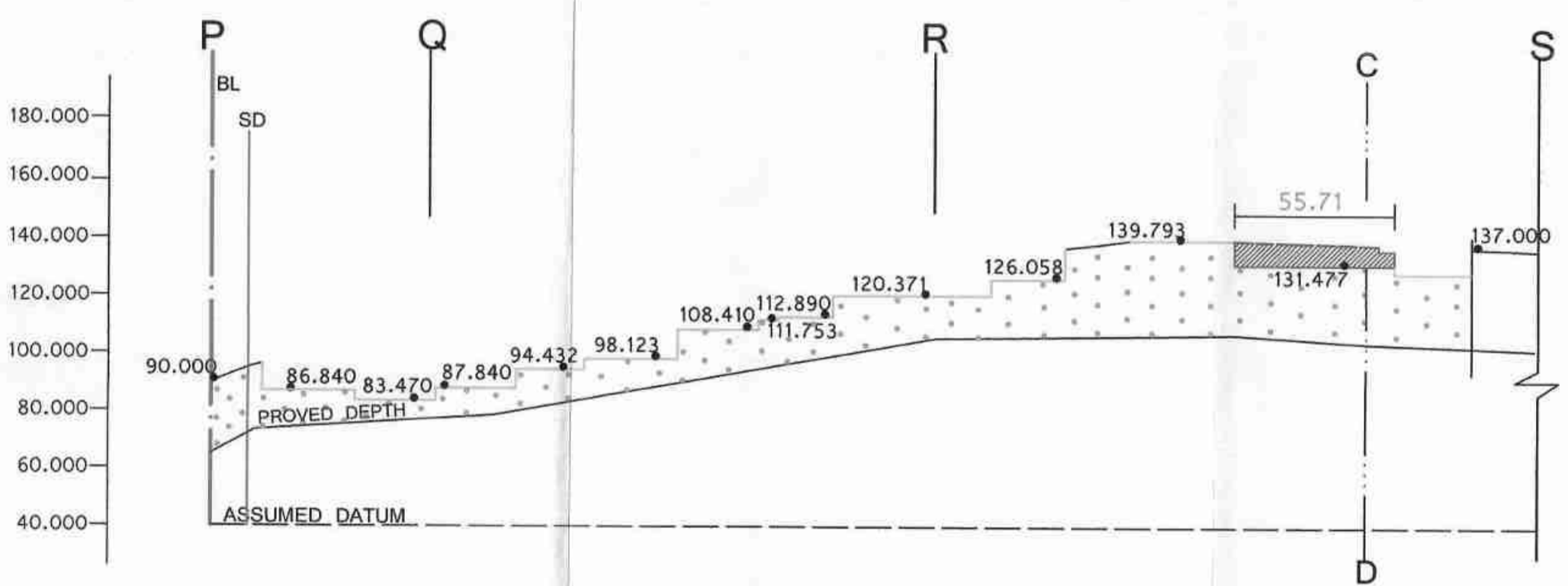


LONGITUDINAL SECTION ON - PQRS

PRODUCTION/DEVELOPMENT FOR THE FIFTH YEAR

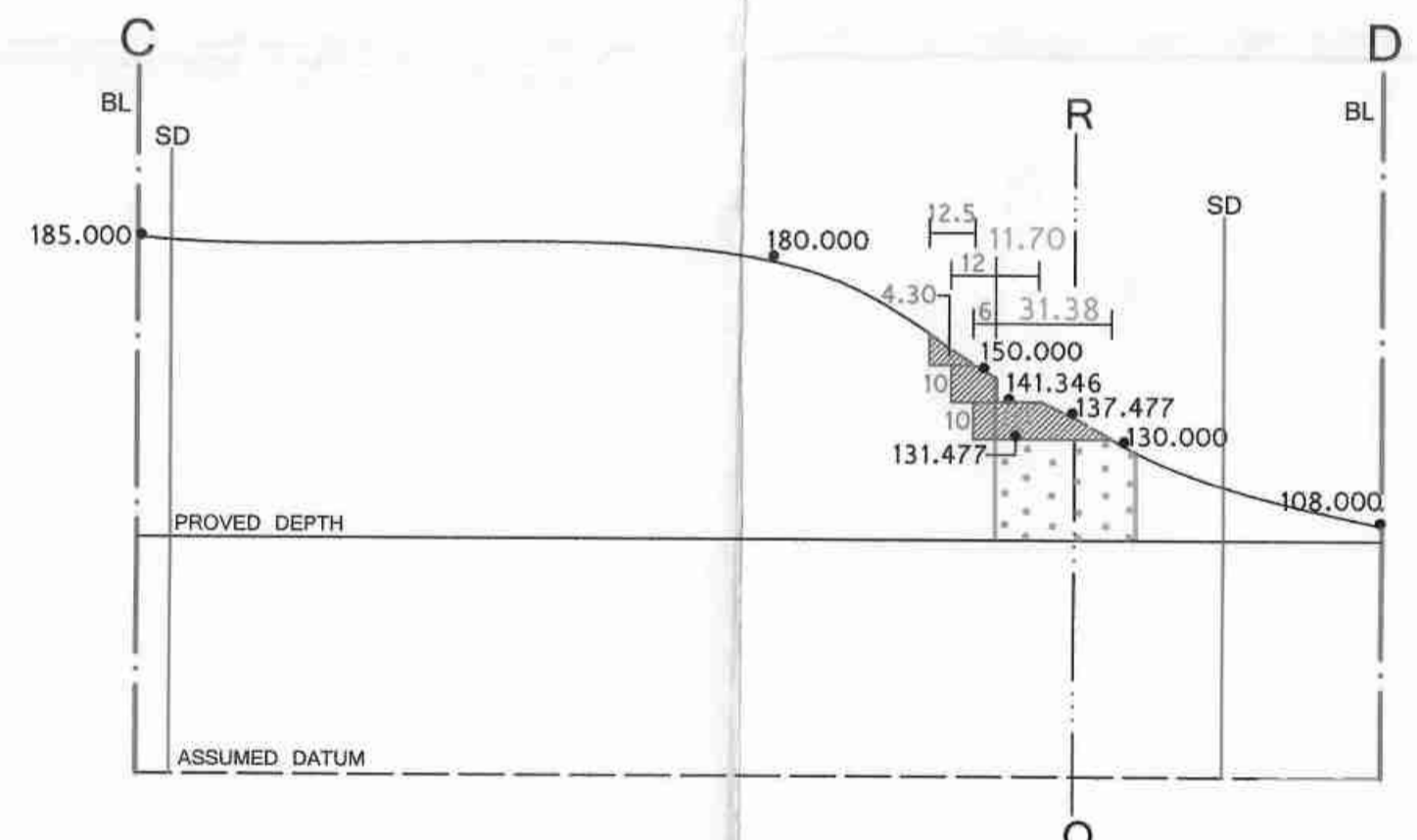


CROSS SECTION ON-GH



LONGITUDINAL SECTION ON - PQRS

PRODUCTION/DEVELOPMENT FOR THE SECOND YEAR



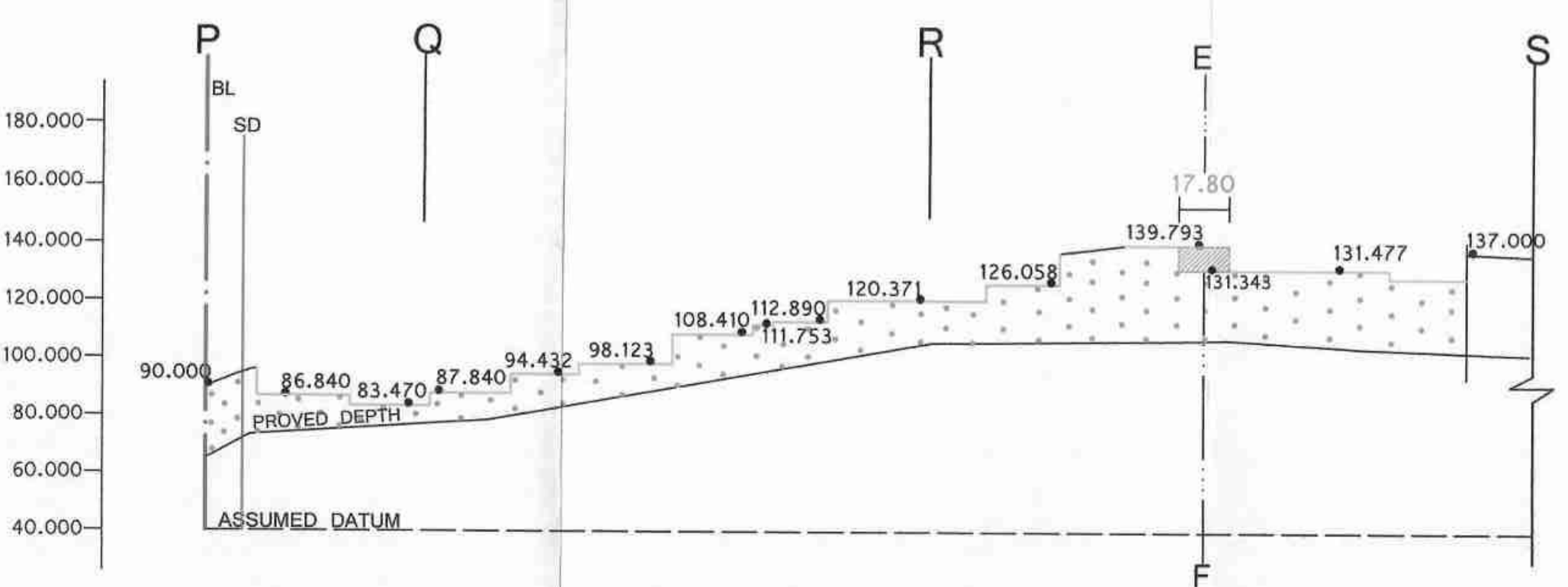
CROSS SECTION ON-CD

LEGEND

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|--|----------|
| 1. | LEASE APPLIED BOUNDARY | [Symbol] |
| 2. | OPENCAST WORKING PIT PROFILE | [Symbol] |
| 3. | PINK HORNBLENDE GNEISS DYKE (PARADISO) | [Symbol] |
| 4. | SAFETY DISTANCE 7.50M FROM THE BOUNDARY 50M FROM ODAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | [Symbol] |

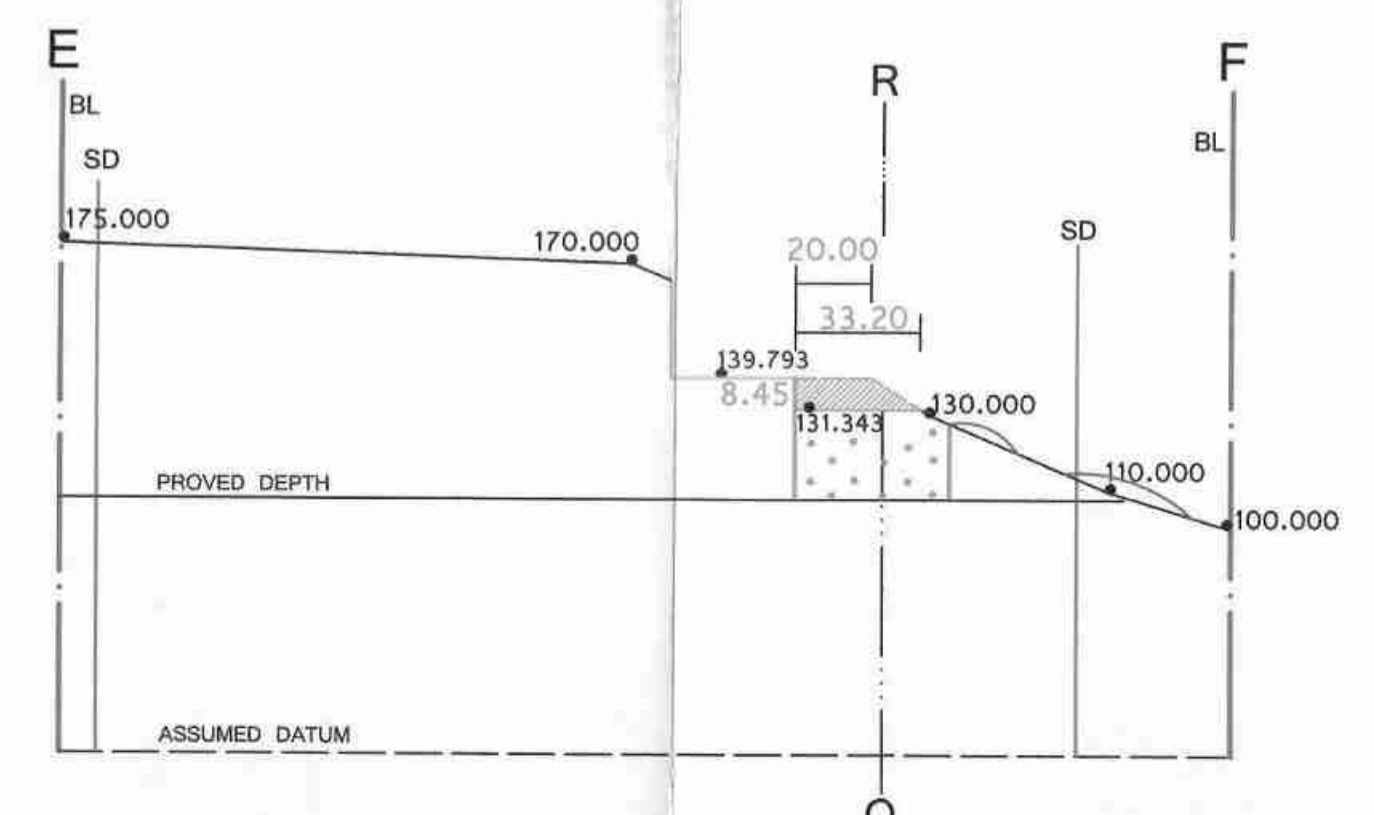
DETAILS OF DEPTH, BENCH AND PRODUCTION FOR MINING PLAN PERIOD

| YEAR | Section | RL | Details of Depth (Average Measurements in M) | | | No.Of Benches Proposed | Proposed ROM in Cu.M. | Proposed Production @ 25% in Cu.M. | |
|-------------|---------|--------------------|--|----------|-----------|------------------------|-----------------------|------------------------------------|-------|
| | | | Present | Proposed | Remaining | | | | |
| FIRST YEAR | RS & AB | 136.349 TO 128.349 | 0.50 | 8.00 | 25.00 | 33.50 | 2 | 6,000 | 1,500 |
| SECOND YEAR | RS & CD | 137.477 TO 131.477 | 0 | 6.00 | 27.50 | 33.50 | 1 | 12,000 | 3,000 |
| THIRD YEAR | RS & EF | 139.793 TO 131.343 | 1.30 | 8.45 | 23.75 | 33.50 | 1 | 4,000 | 1,000 |
| FOURTH YEAR | RS & GH | 139.793 TO 134.793 | 0.50 | 5.00 | 28.00 | 33.50 | 1 | 4,000 | 1,000 |
| FIFTH YEAR | RS & GH | 134.793 TO 129.293 | 5.50 | 5.40 | 22.60 | 33.50 | 1 | 4,000 | 1,000 |



LONGITUDINAL SECTION ON - PQRS

PRODUCTION/DEVELOPMENT FOR THE THIRD YEAR



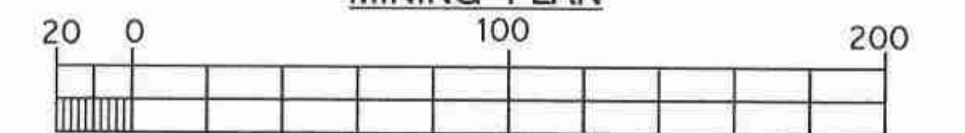
CROSS SECTION ON-EF

YEARWISE PRODUCTION/DEVELOPMENT

- FOR THE FIRST YEAR [Symbol]
- FOR THE SECOND YEAR [Symbol]
- FOR THE THIRD YEAR [Symbol]
- FOR THE FOURTH YEAR [Symbol]
- FOR THE FIFTH YEAR [Symbol]



SULAMALAI GREY GRANITE QUARRY
YEARWISE PRODUCTION/DEVELOPMENT
SECTIONS FOR THE FIRST FIVE YEARS
MINING PLAN



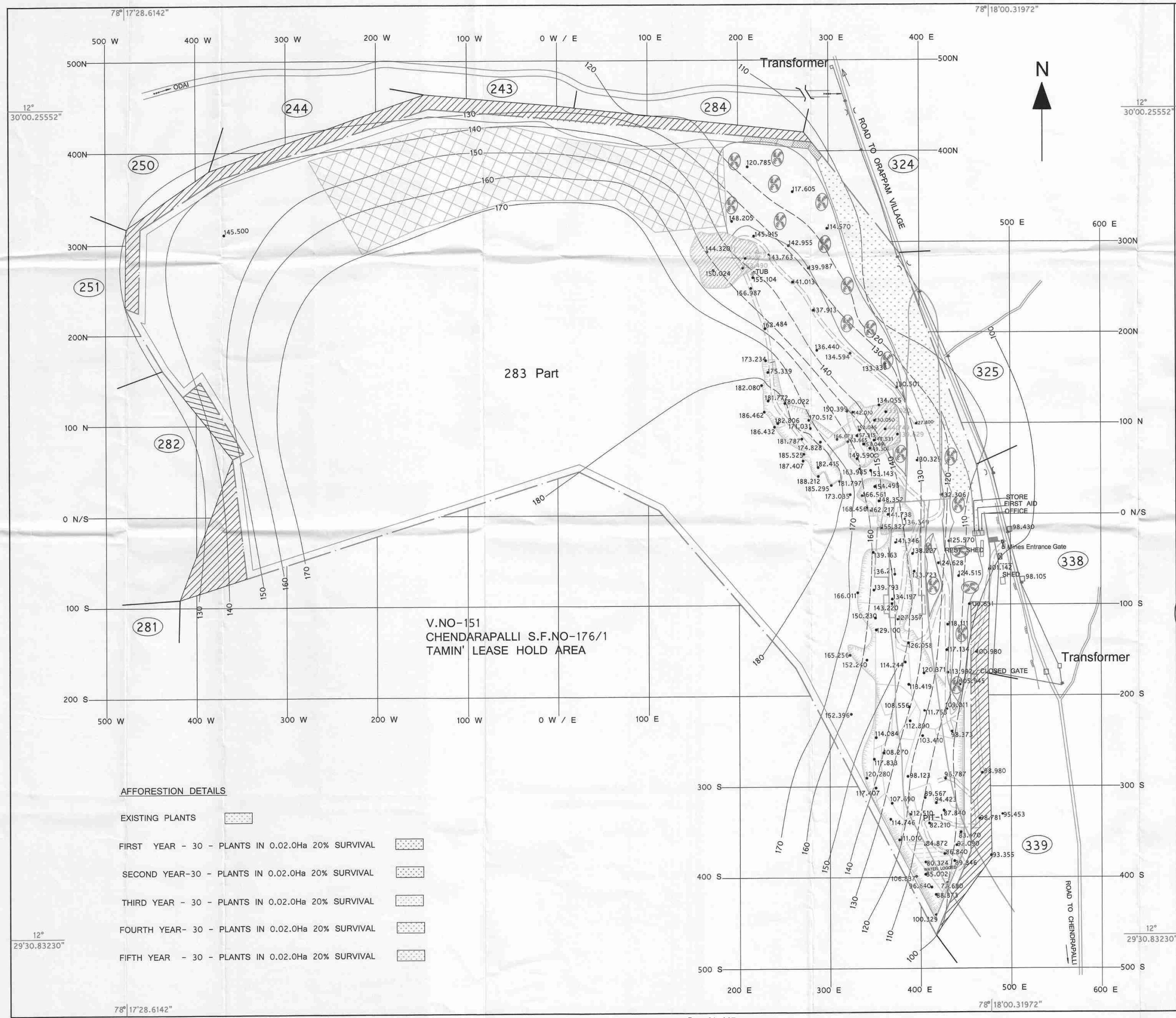
SCALE = 1:2000 (1cm=20mts)
ALL DIMENSIONS ARE IN METRES

DISTRICT : KRISHNAGIRI
TALUK : BARGUR
VILLAGE No. : 118
VILLAGE NAME : SULAMALAI
FIELD No. : 283(Part)
LEASE HOLD AREA : 34.35.Ha.

APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
No.31, KAMARAJAR SALAI,
CHEPAUK, CHENNAI - 600 005.
Certified that the PLAN is Correct

M. RAM SANKAR
Mines Surveyor
Certificate No: SVR/789.
Tamil Nadu Minerals Limited.

Dr. E.GANESAN, Ph.D., PGDELP
Qualified Person,
Tamil Nadu Minerals Limited
Chennai - 600 005.

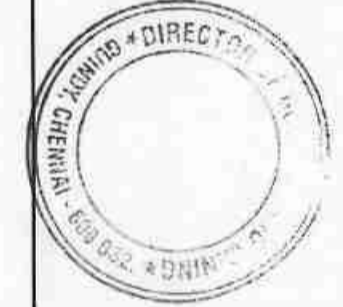


LEGEND

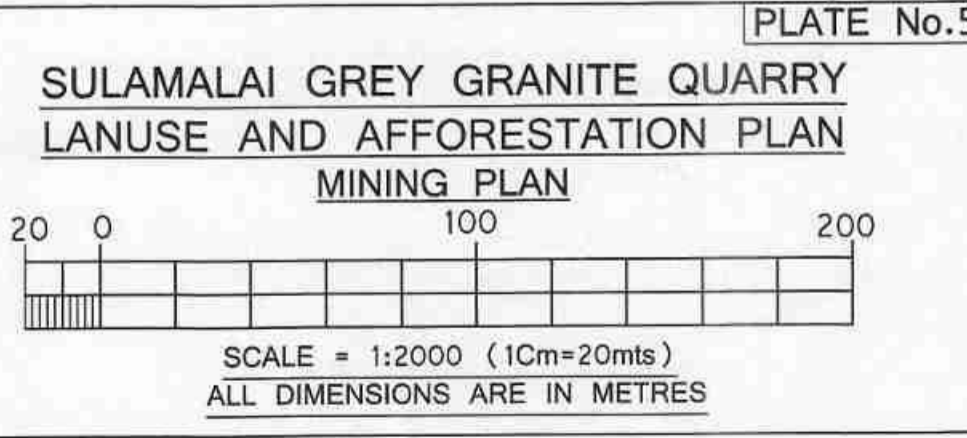
| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---|--------------|
| 1. | LEASE APPLIED BOUNDARY | --- |
| 2. | ROAD | == |
| 3. | MINE APPROACH ROAD | --- |
| 4. | TEMPORARY SHED | □ |
| 5. | CONTOUR INTERVAL AT 10.0m | 170 160 170 |
| 6. | ASSUMED BENCH MARK | B.M.-100.000 |
| 7. | OPENCAST WORKING PIT | ⊖ |
| 8. | POWER LINE (L.T.) | — — — |
| 9. | TELEPHONE LINE | —o—o—o— |
| 10. | ODAI | ~ |
| 11. | EXISTING WASTE DUMP | ⊖ |
| 12. | PATTA LAND (IN SF.NO 283) | ▨ |
| 13. | REFILLED | ▨ |
| 14. | WATER LOGGED | ⊖ |
| 15. | SAFETY DISTANCE 7.5M FROM THE BOUNDARY 50M FROM ODAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | — |
| 16. | PINK HORNBLENDE GNEISS DYKE (PARADISO) | ▨ |
| 17. | PIT DEVELOPMENT AT MINING PLAN PERIOD | ⊖ |
| 18. | PROPOSED WASTE DUMP | ▨ |

AFFORESTATION DETAILS

| | |
|---|---|
| EXISTING PLANTS | ▨ |
| FIRST YEAR - 30 - PLANTS IN 0.02.0Ha 20% SURVIVAL | ▨ |
| SECOND YEAR-30 - PLANTS IN 0.02.0Ha 20% SURVIVAL | ▨ |
| THIRD YEAR - 30 - PLANTS IN 0.02.0Ha 20% SURVIVAL | ▨ |
| FOURTH YEAR- 30 - PLANTS IN 0.02.0Ha 20% SURVIVAL | ▨ |
| FIFTH YEAR - 30 - PLANTS IN 0.02.0Ha 20% SURVIVAL | ▨ |



DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE HOLD AREA : 34.35.5Ha.

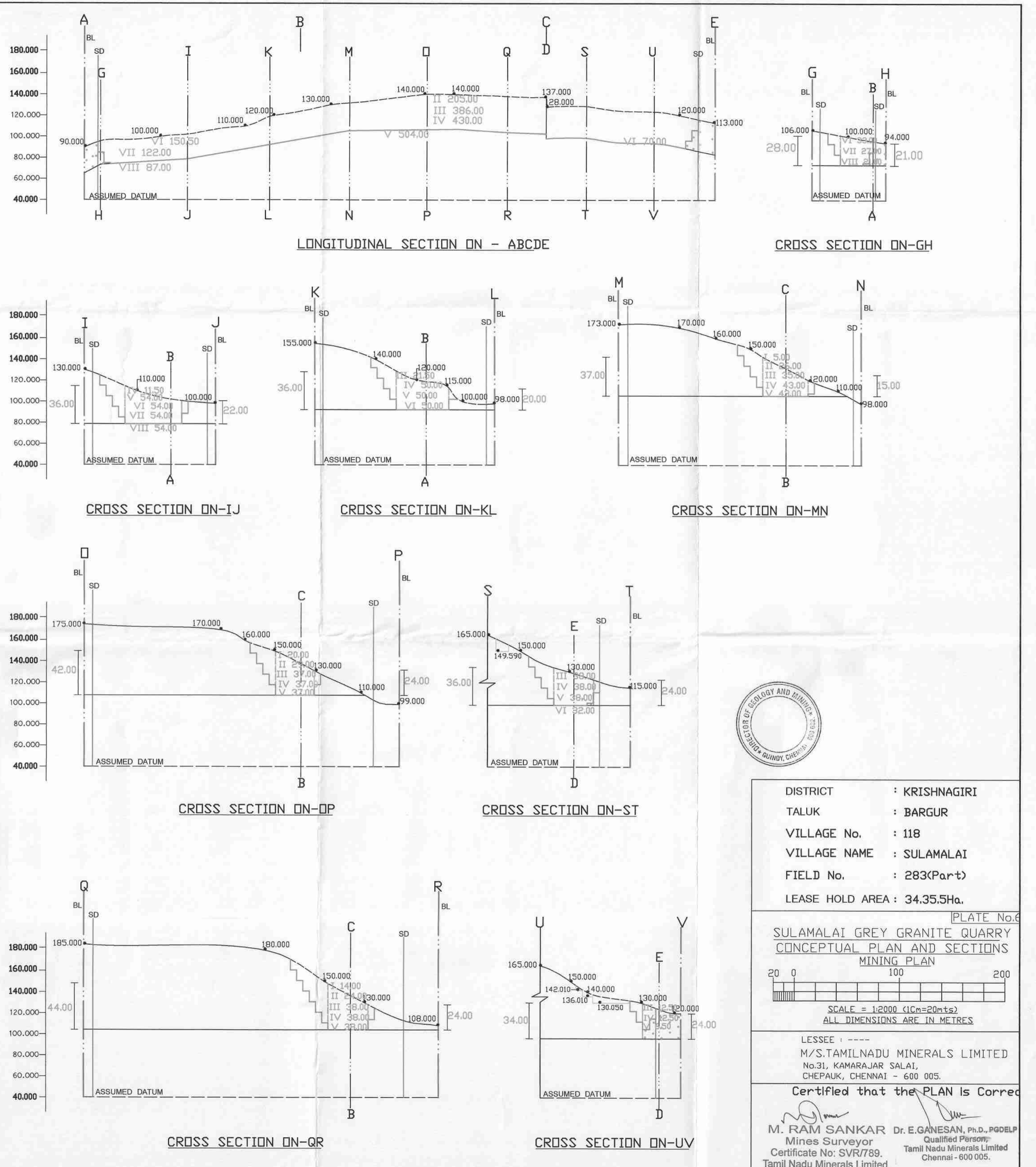
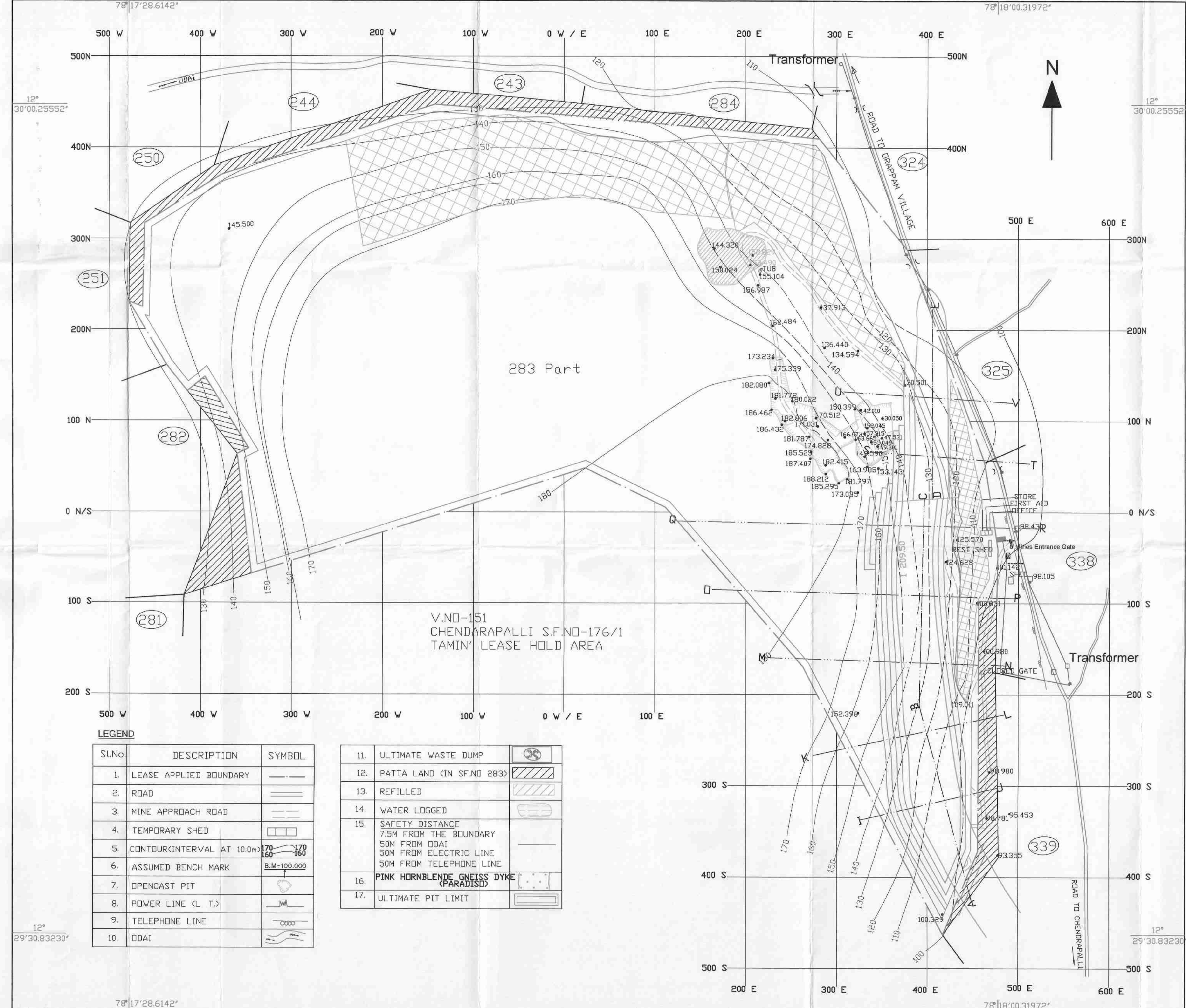


APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789.
 Tamil Nadu Minerals Limited.

r. E.GANESAN, Ph.D., PGDELP
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.



LEGEND

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---------------------------|--------------|
| 1. | LEASE APPLIED BOUNDARY | --- |
| 2. | ROAD | == |
| 3. | MINE APPROACH ROAD | --- |
| 4. | TEMPORARY SHED | □ |
| 5. | CONTOUR INTERVAL AT 10.0m | 170 160 |
| 6. | ASSUMED BENCH MARK | B.M.-100.000 |
| 7. | OPENCAST PIT | ◊ |
| 8. | POWER LINE (L.T.) | — — — |
| 9. | TELEPHONE LINE | o-o-o-o |
| 10. | DDAI | ~ |

| | | |
|-----|---|---|
| 11. | ULTIMATE WASTE DUMP | ⊗ |
| 12. | PATTA LAND (IN S.F.NO 283) | ▨ |
| 13. | REFILLED | ▧ |
| 14. | WATER LOGGED | ⊖ |
| 15. | SAFETY DISTANCE 7.5M FROM THE BOUNDARY 50M FROM DDAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | — |
| 16. | PINK HORNBLENDE GNEISS DYKE (PARADIS) | ▨ |
| 17. | ULTIMATE PIT LIMIT | ⊖ |



DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283(Part)
 LEASE HOLD AREA : 34.35Ha.

PLATE No. 6
SULAMALAI GREY GRANITE QUARRY
 CONCEPTUAL PLAN AND SECTIONS
 MINING PLAN

SCALE = 1:2000 (1cm=20mts)
 ALL DIMENSIONS ARE IN METRES

LESSEE : ---
 M/S. TAMILNADU MINERALS LIMITED
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

M. RAM SANKAR, Mines Surveyor
 Certificate No: SVR/789,
 Tamil Nadu Minerals Limited,
 Chennai - 600 005.

Dr. E. GANESAN, Ph.D., PGDPLP
 Qualified Person,
 Tamil Nadu Minerals Limited,
 Chennai - 600 005.

| Sl.No. | DESCRIPTION | SYMBOL |
|--------|-------------------------|----------|
| 1. | LEASE APPLIED BOUNDARY | |
| 2. | ROAD | |
| 3. | KULAM / ERI | |
| 4. | STREAM | |
| 5. | WELL | |
| 6. | VILLAGE BOUNDARY | |
| 7. | BUFFER ZONE 500m RADIUS | |
| 8. | SAFETY ZONE 60m RADIUS | |
| 9. | SURVEY FIELD No. | 283/Part |



No. ACHCHAM

Balanayampalli 2.4km

Komagai Hill

VILLAGE No.118
SULAMALAI

283/Part

VILLAGE No.169
CHENDRAPALLI

Hill
176

DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE APPLIED AREA : 34.35 Hects.

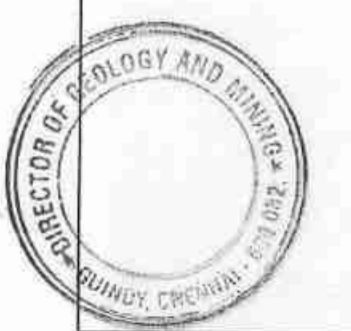
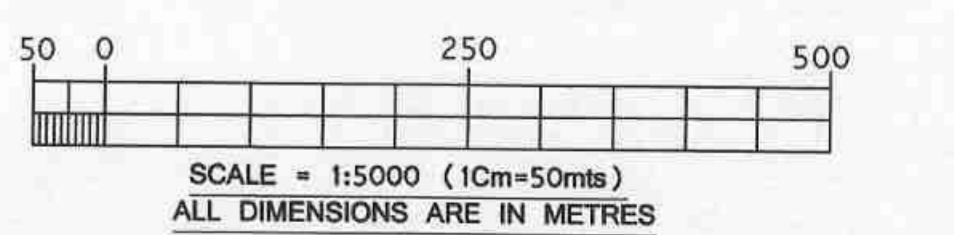


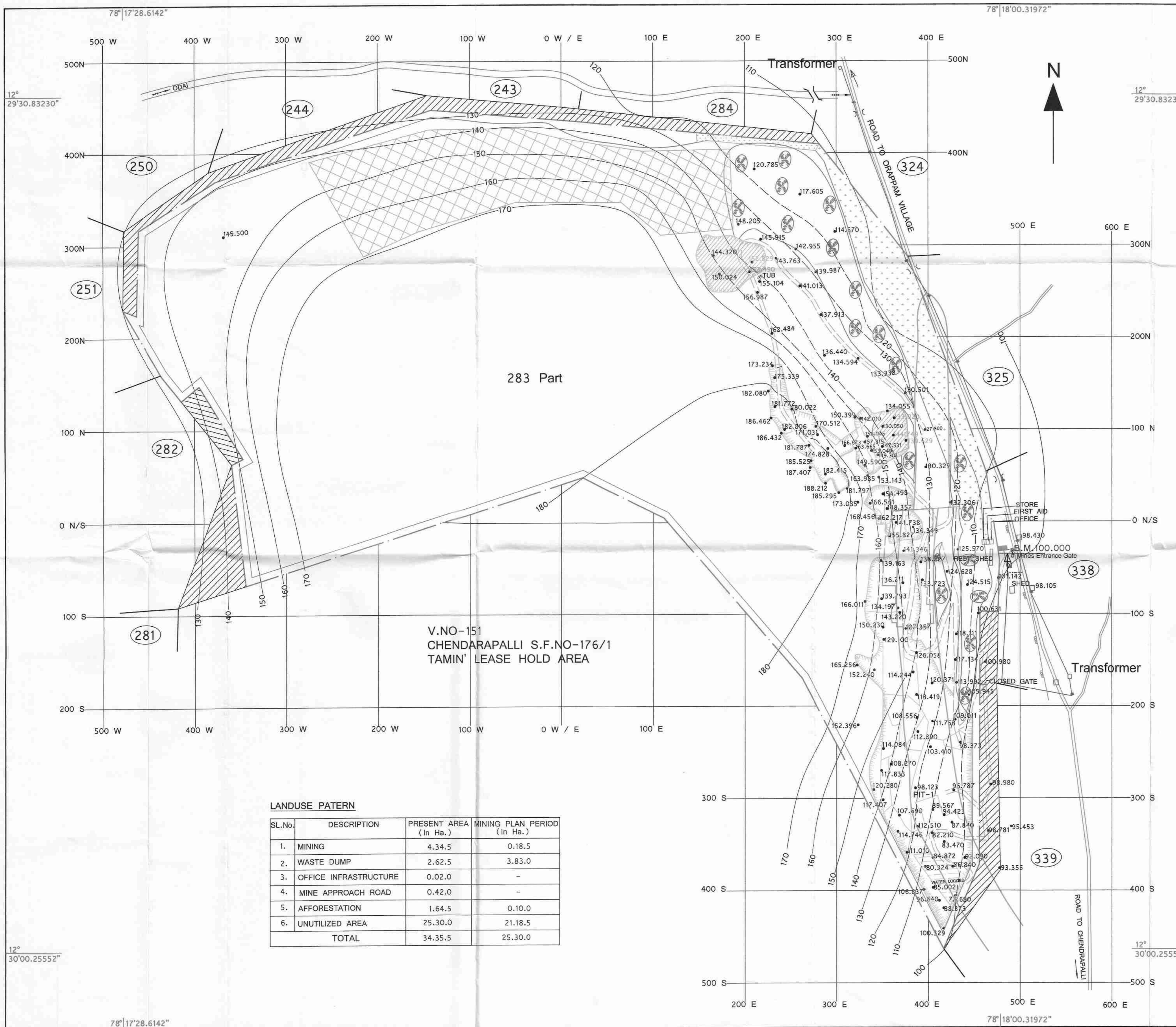
PLATE No.7
 SULAMALAI COLOUR GRANITE QUARRY
 ENVIRONMENT PLAN
 MINING PLAN



APPLICANT: M/s.TAMILNADU MINERALS LIMITED,
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.
 Certified that the PLAN is Correct

M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789,
 Tamil Nadu Minerals Limited

Dr. E.GANESAN, P.L.D., PGGELP
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.

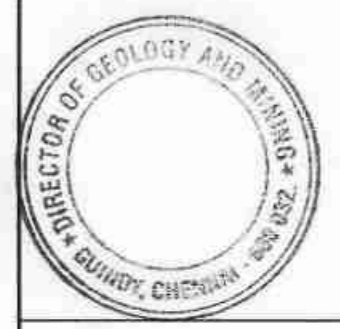


LEGEND

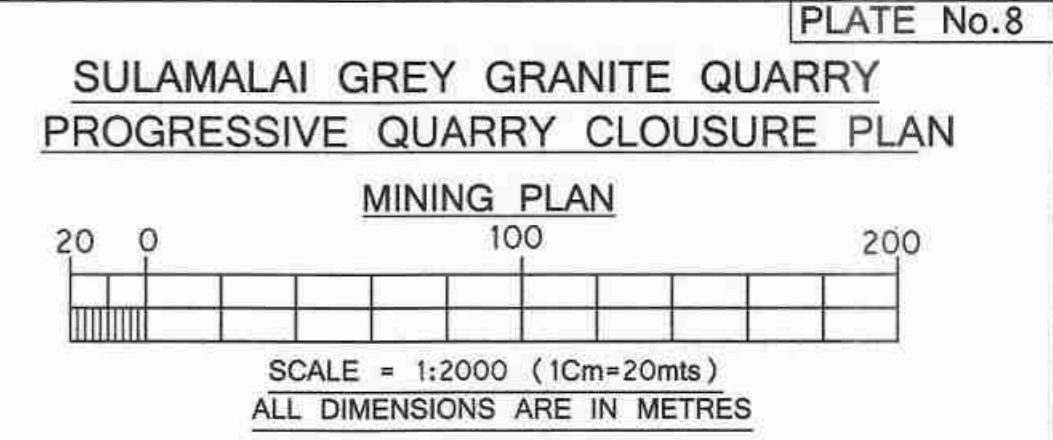
| Sl.No. | DESCRIPTION | SYMBOL |
|--------|---|--------------------|
| 1. | LEASE APPLIED BOUNDARY | --- |
| 2. | ROAD | == |
| 3. | MINE APPROACH ROAD | --- |
| 4. | TEMPORARY SHED | □ |
| 5. | CONTOUR INTERVAL AT 10.0m | 170 170 160 160 |
| 6. | ASSUMED BENCH MARK | B.M.-100.000 |
| 7. | OPENCAST WORKING PIT | ⊕ |
| 8. | POWER LINE (L.T.) | — — — |
| 9. | TELEPHONE LINE | ○○○○ |
| 10. | ODAI | ~ |
| 11. | EXISTING WASTE DUMP | ⊕ |
| 12. | PATTA LAND (IN SF.NO 283) | ▨ |
| 13. | REFILLED | ▨ |
| 14. | WATER LOGGED | ⊕ |
| 15. | SAFETY DISTANCE 7.5M FROM THE BOUNDARY 50M FROM ODAI 50M FROM ELECTRIC LINE 50M FROM TELEPHONE LINE | — |
| 16. | PINK HORNBLENDE GNEISS DYKE (PARADISO) | ⌋ |
| 17. | PROPOSED DEVELOPMENT DURING MINING PLAN PERIOD | ⌋ |
| 18. | PROPOSED WASTE DUMP DURING MINING PLAN PERIOD | ▨ |
| 19. | EXISTING AFFORESTATION | ⊕ |
| 20. | PROPOSED AFFORESTATION DURING MINING PLAN PERIOD | ⊕ |

LANDUSE PATERN

| SL.No. | DESCRIPTION | PRESENT AREA (In Ha.) | MINING PLAN PERIOD (In Ha.) |
|--------------|-----------------------|-----------------------|-----------------------------|
| 1. | MINING | 4.34.5 | 0.18.5 |
| 2. | WASTE DUMP | 2.62.5 | 3.83.0 |
| 3. | OFFICE INFRASTRUCTURE | 0.02.0 | - |
| 4. | MINE APPROACH ROAD | 0.42.0 | - |
| 5. | AFFORESTATION | 1.64.5 | 0.10.0 |
| 6. | UNUTILIZED AREA | 25.30.0 | 21.18.5 |
| TOTAL | | 34.35.5 | 25.30.0 |



DISTRICT : KRISHNAGIRI
 TALUK : BARGUR
 VILLAGE No. : 118
 VILLAGE NAME : SULAMALAI
 FIELD No. : 283 (Part)
 LEASE HOLD AREA : 34.35.5Ha.



APPLICANT : M/s.TAMILNADU MINERALS LIMITED,
 No.31, KAMARAJAR SALAI,
 CHEPAUK, CHENNAI - 600 005.

Certified that the PLAN is Correct

M. RAM SANKAR
 Mines Surveyor
 Certificate No: SVR/789,
 Tamil Nadu Minerals Limited.

Dr. E.GANESAN, Ph.D., PGDLP
 Qualified Person,
 Tamil Nadu Minerals Limited
 Chennai - 600 005.



தமிழ்நாடு தமிழ்நாடு TAMILNADU

21 SEP 2023

TAMIN

BG 231857
 M.S. Chandramouli
 M.S. CHANDRAMOULI
 STAMP VENDOR
 LIC No. 9034/98/B1
 New No. 133/3, T.H. Road
 Triplicane, Chennai-600 005.
 Phone : 044-48592446

AFFIDAVIT

I, Dr.E.Ganesan, represents M/s. Tamil Nadu Minerals Limited, as Deputy Manager(ML) and authorized signatory of the project (Mahimandalam Black Granite quarry over an extent of 166.92.0 Ha in SF.Nos. 917/(P) & 921(P) of Mahimandalam Village, Katpadi Taluk, Vellore District solemnly declare and sincerely affirm that:.

Blasting operation in the proposed quarry will be carried out by the statutory competent persons as per the MMR 1961 such as Blaster, Mining Mate, Mine Foremen and II class Mines Manager appointed by TAMIN.

TAMIN will carry out only controlled blasting operation involving line drilling, muffle blasting, Wire saw cutting and $\text{Ca}(\text{OH})_2$ to minimize the blasting and avoid the ground vibration as well as to prevent fly rock travel beyond 30m from the blasting site.

Place: Chennai
 Date: 28.06.2024

for Tamil Nadu Minerals Ltd,

(Dr. E.GANESAN)
 Deputy Manager (ML)
 Authorised Signatory
 TAMIN- Chennai



K.S. VIJAYAKUMAR, M.A.,B.L.
 ADVOCATE & NOTARY PUBLIC
 GOVERNMENT OF INDIA
 4/7, IBRAHIM 1st STREET, CHENNAI-1
 Mobile : 9841373276

10
27/7/20

DEPARTMENT OF GEOLOGY AND MINING

From
Thiru.E.Saravanelraj, I.A.S.,
Director,
Department of Geology and Mining,
Guindy, I. E., Chennai – 600 032.

To
The Managing Director,
Tvl.Tamin Ltd.,
No.31, Kamarajar Salai,
TWAD House, Chepauk,
Chennai - 5.

Rc.No.550/MM4/2019 dated 27.07.2020

Madam,



Sub: Mines and Minerals – Minor Mineral – Multi-coloured Granite – Krishnagiri district – Bargur taluk – Sulamalai village - over an extent of 55.22.5 ha of Poramboke lands -S.F.No.283 & 247- Quarry lease granted to Tvl.Tamin Ltd. - Mines operated without Environmental Clearance – Cost of mineral remitted to an amount of Rs.97,85,148/- - NOC requested – Issued - Reg.

- Ref: 1. Tvl.Tamin Ltd., letter No.8215/ML5/2019 dated 24.01.2020.
2. District Collector, Krishnagiri letter in Rc.No.1042/2018/Mines dated 14.01.2020

Kind attention is invited to the references cited.

2) Tvl.Tamin Ltd., was granted a quarrying lease for multi-coloured granite over an extent of 55.22.5 ha in S.F.No.283 & 247 of Sulamalai village, Bargur taluk, Krishnagiri district for a period of 20 years under Rule 8-C of Tamil Nadu Minor Mineral Concession Rules, 1959. The lease period is valid upto 20.06.2019.

3) As per the Hon'ble Supreme Court order dated 02.08.2017 in W.P. Civil No.114/2014 in the matter of Common Cause Vs Union of India and Ors. has passed a detailed order interpreting Section 21(5) of the MMDR Act, 1957 directing that wherever violations were carried out, 100% cost value of the mined mineral needs without environmental clearance to be compensated by the mining entity / project proponent.

4) In this regard, the District Collector, Krishnagiri has stated that Tvl.Tamin Ltd., had operated the above said quarry in the violation period from 15.01.2016 to 10.01.2017 and obtained transport permit for a quantity of 360.796 cbm. Hence, Tvl.Tamin Ltd., is liable for remittance of 100% cost of mineral. Therefore, as per the demand notice issued by the District Collector, Tvl.Tamin Ltd., has paid the cost of mineral of Rs.97,85,148/- vide challan no.nil dated 11.12.2019 for the mineral

transported without environment clearance. Hence, the District Collector, Krishnagiri recommended to issue NOC to Tvl.Tamin Ltd., for getting environmental clearance.

5) Since, Tvl.Tamin Ltd., has paid the cost of mineral for the mineral transported in the violation period without environment clearance and based on the recommendation of the District Collector, Krishnagiri, No Objection Certificate is issued to Tvl.Tamin Ltd., for getting environment clearance for the quarry located in S.F.No. 283 & 247 over an extent of 55.22.0 ha of poramboke land in Sulamalai village, Bargur taluk, Krishnagiri district subject to a condition that Tvl.Tamin Ltd., should remit any excess dues arises in future in this regard.

Sd /- E.Saravanelraj,
Director of Geology and Mining

Forwarded / By Order


Joint Director

S.S.
28/17/2020