

ANNEXURE

TVL. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY

Bilichi Village, Coimbatore North Taluk,
Coimbatore District, Tamil Nadu State

CLUSTER EXTENT = 7.23.0 Ha

ToR obtained vide

Lr No. SEIAA- TN/F.No.9051/SEAC/ToR-1167/2022 Dated: 06.06.2022

Project Proponent	Proposed Project	Extent
Tvl. Sri Rajalakshmi Samappa Building Materials Company, No. 677/1A, Vellamadai, Coimbatore District - 641 110.	S.F. Nos:1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District.	2.60.5 ha

LIST OF ANNEXURES

Proposed Quarry		
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Existing Quarry		
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TMT. P. RAJESWARI, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU
3rd Floor, Panagal Maaligai,
No.1 Jeenis Road, Saidapet,
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TERMS OF REFERENCE (ToR)

Lr No.SEIAA-TN/F.No.9051/SEAC/ToR- 1167/2022 Dated: 06.06.2022

To

Tvl.Sri Rajalakshmi samappa
Building Material Company
No.677/1A, Vellamadai
Coimbatore District – 641110

Sir / Madam,

Sub: SEIAA, Tamil Nadu – Terms of Reference with Public Hearing (ToR) for the Proposed Rough Stone & Gravel quarry lease over an extent of 2.60.5 Ha in, S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu by Tvl. Sri Rajalakshmi Samappa Building Materials Company - under project category – “B1” and Schedule S.No. 1(a) – ToR issued along with Public Hearing- preparation of EIA report – Regarding.

- Ref:**
1. Online proposal No.SIA/TN/MIN/72677/2022, dated: 26.02.2022
 2. Your application seeking Terms of Reference submitted on: 03.03.2022
 3. Minutes of the 273rd Meeting of SEAC held on 14.05.2022
 4. Minutes of the 518th Meeting of SEIAA held on 06.06.2022.

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


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The project proponent, Tvl. Sri Rajalakshmi Samappa Building Materials Company has submitted application seeking ToR for B1 category project in Form-I, for the Rough Stone & Gravel quarry lease over an extent of 2.60.5 Ha in, S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu and has furnished Pre-feasibility report.

The proposal was placed in 273rd SEAC meeting held on 14.5.2022. The project proponent gave detailed presentation. SEAC noted the following:

1. The Project Proponent, Tvl. Sri Rajalakshmi Samappa Building Materials Company has applied for Terms for Reference for the proposed Rough stone & gravel quarry lease over an extent of 2.60.5 Ha in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu.
2. The project/activity is covered under Category "B1" of Item 1(a) "Mining Projects" of the Schedule to the EIA Notification, 2006.
3. As per the mining plan, the lease period is 5 year. The production as per mining plan for 5 years is not to exceed – 2,53,220m³ of Rough stone , 25576 m³ of gravel & 15360m³ of existing gravel dump. The Annual peak production as per mining plan is 51280 m³ of Rough Stone(4th year) & 15360m³ of gravel & gravel dump (2nd year) with ultimate depth - 37m (2m Gravel + 35m Rough Stone) BGL.

Based on the presentation made by the proponent and the documents furnished, SEAC decided to recommend the proposal for the grant of Terms of Reference (TOR) with Public Hearing, subject to the following TORs, in addition to the standard terms of reference for EIA study for non-coal mining projects and details issued by the MOEF & CC to be included in EIA/EMP Report:

1. The Proponent shall carry out the cumulative & comprehensive impact study due to mining operations carried out in the quarry cluster specifically with reference to the environment in terms of air pollution, water pollution & health impacts, accordingly the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.
2. The PP shall carry out controlled blasting & vibration study with the reputed institution and furnish the same along with EIA report.


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3. Certified EC compliance report shall be included in the EIA report.
4. 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.
5. 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).
6. The PP shall carry out Drone video survey covering the cluster, Green belt , fencing etc.,
7. 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.
8. 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.
9. 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


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- out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.
10. 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.
 11. 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.
 12. 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.
 13. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.
 14. The Public hearing advertisement shall be published in one major National daily and one most circulated vernacular daily.
 15. The PP shall produce/display the EIA report, Executive summary and other related with respect to public hearing should in Tamil Language also.
 16. The recommendation for the issue of "Terms of Reference" is subjected to the outcome of the Hon'ble NGT, Principal Bench, New Delhi in O.A No.186 of 2016 (M.A.No.350/2016) and O.A. No.200/2016 and O.A.No.580/2016 (M.A.No.1182/2016) and O.A.No.102/2017 and O.A.No.404/2016 (M.A.No. 758/2016, M.A.No.920/2016, M.A.No.1122/2016, M.A.No.12/2017 & M.A. No. 843/2017) and O.A.No.405/2016 and O.A.No.520 of 2016 (M.A.No. 981/2016, M.A.No.982/2016 & M.A.No.384/2017).
 17. 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


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- the aesthetics. A wide range of indigenous plant species should be planted as given in the **appendix** in consultation with the DFO, State Agriculture University and local school/college authorities. 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.
18. Taller/one year old Saplings raised in appropriate size of bags, preferably eco-friendly bags should be planted in proper espacement 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
 19. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
 20. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report.
 21. The specific flora & fauna studies shall be carry out with the help of local School/College students and the same shall be included in EIA Report.
 22. 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.
 23. 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 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.
 24. 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 Reference besides attracting penal provisions in the Environment (Protection) Act, 1986.

Appendix -I
List of Native Trees Suggested for Planting

1. *Aeglemarmelos*-Vilvam


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2. *Adenaantherapavonina*-Manjadi
3. *Albizialebeck*-Vaagai
4. *Albiziaamara*-Usil
5. *Bauhinia purpurea* - Mantharai
6. *Bauhinia racemosa* - Aathi
7. *Bauhinia tomentosa*-Iruvathi
8. *Buchananiaaillaris*-Kattuma
9. *Borassusflabellifer*- Panai
10. *Buteamonosperma* - Murukkamaram
11. *Bobaxceiba*- Ilavu, Sevvilavu
12. *Calophylluminophyllum* - Punnai
13. *Cassia fistula*- Sarakondrai
14. *Cassia roxburghii*- Sengondrai
15. *Chloroxylonsweitenia* - Purasamaram
16. *Cochlospermumreligiosum*- Kongu, ManjalIlavu
17. *Cordiadichotoma*- Mookuchalimaram
18. *Cretevaadansonii*-Mavalingum
19. *Dilleniaindica*-Uva, Uzha
20. *Dilleniapentagyna*- SiruUva, Sitruzha
21. *Diospyrosebenum*- Karungali
22. *Diospyroschloroxylon*- Vaganai
23. *Ficusamplissima*- Kalltehi
24. *Hibiscus tiliaceous*-Aatrupoovarasu
25. *Hardwickiabinata*- Aacha
26. *Holopteliaintegrifolia*-Aayili
27. *Lanneacoromandelica* - Odhiam
28. *Lagerstroemia speciosa* - Poo Marudhu
29. *Lepisanthustetraphylla*- Neikottaimaram
30. *Limoniaacidissima* - Vila maram
31. *Litseaaglutinosa*-Pisinpattai
32. *Madhucalongifolia* - Illuppai
33. *Manilkarahexandra*-UlakkaiPaalai
34. *Mimusopselengi* - Magizhamaram
35. *Mitragynaparvifolia* - Kadambu
36. *Morindapubescens*-Nuna
37. *Morindacitrifolia*- VellaiNuna
38. *Phoenix sylvestre*-Eachai
39. *Pongamiapinnata*-Pungam
40. *Premnamollissima*- Munnai
41. *Premnaserratifolia*- Narumunnai
42. *Premnatomentosa*-PurangaiNaari, PudangaNaari

43. *Prosopiscinerea* - Vannimaram
44. *Pterocarpusmarsupium* - Vengai
45. *Pterospermumcanescens*–Vennangu, Tada
46. *Pterospermumxylocarpum* - Polavu
47. *Puthranjivaroxburghii*–Puthranjivi
48. *Salvadorapersica*– Ugaamaram
49. *Sapindusemarginatus*- Manipungan, Soapukai
50. *Saracaasoca* - Asoca
51. *Streblusasper*- Pirayamaram
52. *Strychnosnuxvomica*–Yetti
53. *Strychnopotatorum* - TherthangKottai
54. *Syzygiumcumini* - Naval
55. *Terminaliabellerica*- Thandri
56. *Terminalia arjuna*- Venmarudhu
57. *Toona ciliate* – Sandhanavembu
58. *Thespesiapopulnea*- Puvarasu
59. *Walsuratrifoliata*–valsura
60. *Wrightiatinctoria*- Vep

Discussion by Authority and the Remarks

The proposal was placed in the 518th Authority meeting held on 06.06.2022. After detailed discussions, the Authority accepts the recommendation of SEAC and decided to grant Terms of Reference (ToR) along with Public Hearing 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 condition in addition to the following conditions:

1. Detailed study shall be carried out regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas.
2. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological structures etc.
3. 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.
4. The Environmental Impact Assessment shall study in detail on the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon

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- sinks and temperature reduction including control of other emission and climate mitigation activities.
5. 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.
 6. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.
 7. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the nearby water body and Reservoir.
 8. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.
 9. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna.
 10. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.
 11. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.
 12. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.
 13. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock.
 14. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.
 15. The project proponent shall study and furnish the impact of project on plantations in adjoin patta lands, Horticulture, Agriculture and livestock.
 16. The project proponent shall study and furnish the details on potential fragmentation impact of natural environment, by the activities.
 17. 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.


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18. 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.
19. The project proponent shall study on impact of mining on Reserve forests free ranging wildlife.
20. 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 & bio-diversity.
 - 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.
21. 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.
22. 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 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.
23. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining.

24. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.
25. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued.

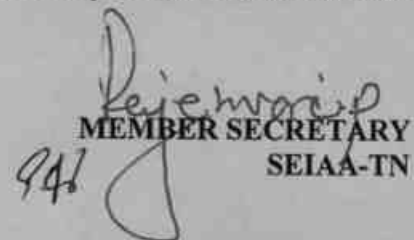
A. STANDARD TERMS OF REFERENCE

- 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/


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conditions? The hierarchical system or administrative order of the Company to deal 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) 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


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- 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 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.


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- 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 with respect to 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 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 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 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:-
 - 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:

1. Project name and location (Village, District, State, Industrial Estate (if applicable)).
2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
4. Capital cost of the project, estimated time of completion.
5. The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
6. A detailed study of the lithology of the mining lease area shall be furnished.
7. Details of village map, "A" register and FMB sketch shall be furnished.
8. Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be submitted along with EIA report.
9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.
10. EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.

11. Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.
12. The EIA study report shall include the surrounding mining activity, if any.
13. Modeling study for Air, Water and noise shall be carried out in this field and incremental increase in the above study shall be substantiated with mitigation measures.
14. A study on the geological resources available shall be carried out and reported.
15. A specific study on agriculture & livelihood shall be carried out and reported.
16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
17. 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, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
18. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
19. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
20. Likely impact of the project on air, water, land, flora-fauna and nearby population
21. Emergency preparedness plan in case of natural or in plant emergencies
22. Issues raised during public hearing (if applicable) and response given
23. CER plan with proposed expenditure.
24. Occupational Health Measures
25. Post project monitoring plan
26. The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
27. A detailed report on the green belt development already undertaken is to be furnished and also submit the proposal for green belt activities.
28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.
29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.

Rajeshwarip
MEMBER SECRETARY
SEIAA-TN

30. Reserve funds should be earmarked for proper closure plan.
31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action 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. 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. 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.
- e. 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.


MEMBER SECRETARY
SEIAA-TN

- The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
- The TORs with public hearing 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.

Rajeswari P
MEMBER SECRETARY
SEIAA-TN

Copy to:

1. The Additional Chief Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. The APCCF (C), Regional Office, MoEF & CC (SZ), 34, Chennai -34.
5. Monitoring Cell, IA Division, Ministry of Environment, Forests & CC, Paryavaran Bhavan, CGO Complex, New Delhi 110003
6. The District Collector, Coimbatore District.
7. Stock File.

From
Thiru.S.Rameshkumar, M.Sc.,
Assistant Director,
Dept. of Geology and Mining,
Coimbatore.

To
Tvl.Sri Rajalakshmi Samappa
Building Materials Company,
No.677/1A, Vellamadai,
Coimbatore District.

Rc.No.875/Mines/2021 Dated: 31.12.2021

Sir,

Sub: Mines & Minerals – Minor Mineral – Coimbatore District – Coimbatore North Taluk – Bilichi Village – Survey Nos.1120/2 (1.52.50 Hec) and 1121/2 (1.08.00 Hec) – over an extent of 2.60.50 hectares of patta land – Application preferred by Tvl.Sri Rajalakshmi Samappa Building Materials Company for quarrying Roughstone and Gravel – Precise area communicated – Details of quarries situated within 500 meter radial distance – Requested – furnished – reg.

- Ref. 1. Assistant Director, Dept. of Geology and Mining, Coimbatore Letter Rc.No.875/Mines/2021, Dated: 02.12.2021
2. Tvl.Sri Rajalakshmi Samappa Building Materials Company, Coimbatore letter dated 29.12.2021.

I invite kind attention to the reference cited wherein Tvl.Sri Rajalakshmi Samappa Building Materials Company has been issued precise area for the grant of Rough Stone and Gravel quarry lease over an extent of 2.60.50 hectares of patta land in Survey Nos.1120/2 (1.52.50 Hec) and 1121/2 (1.08.00 Hec) of Bilichi Village, Coimbatore North Taluk, Coimbatore District.

In the reference 2nd cited of Tvl.Sri Rajalakshmi Samappa Building Materials Company has requested to furnish details of quarries situated within 500 meter radial distance from the proposed area.

In this connection the details of abandoned, expired, existing and proposed quarries situated within 500 meter radial distance from the proposed area is furnished below.

i) Existing Quarries

Sl. No	Name of the Owner	Village &S.F.Nos.	Extent in Hect.	Lease period	Remarks
1.	Thiru.P.Siddharthamouli	Bilichi 1119, 1120, 1121	4.62.50	10.11.2020 to 09.11.2025	

ii) Expired Quarries

Sl. No	Name of the Owner	Village & S.F.Nos.	Extent in Hect.	Lease period	Remarks
---Nil---					

iii) Abandoned quarries


Sl. No.	Name of the Owner	Village & S.F.Nos.	Extent in Hect.	Lease period	Remarks
---Nil---					

iv) Proposed quarries

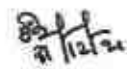
Sl. No	Name of the Owner	Village & S.F.Nos.	Extent in Hect.	Remarks
1	Tvl.Sri Rajalakshmi Samappa Building Materials Company	Billich 1120/2, 1121/2	2.60.50	Subject area Precise area communicated

v) Future Proposed quarries

Sl. No.	Name of the Owner	Village & S.F.Nos.	Extent in Hect.	Remarks
---NIL---				


Assistant Director,
Dept. of Geology and Mining,
Coimbatore.


3/1/22


3/1/22

From
Thiru.S.Rameshkumar, M.Sc.,
Assistant Director,
Dept. of Geology and Mining,
Coimbatore.

To
Tvl.Sri Rajalakshmi Samappa
Building Materials Company,
No.677/1A, Vellamadai,
Coimbatore District.

Rc.No.875/Mines/2021 Dated: 31.12.2021

Sir,

Sub: Mines & Minerals - Minor Mineral - Coimbatore District - Coimbatore North Taluk - Bilichi Village - Survey Nos.1120/2 (1.52.50 Hec) and 1121/2 (1.08.00 Hec) - over an extent of 2.60.50 hectares of patta land - Application preferred by Tvl.Sri Rajalakshmi Samappa Building Materials Company for quarrying Roughstone and Gravel- Submission of mining plan for approval - approved - regarding.

- Ref: 1. Quarry lease application dated 12.07.2021 preferred by Tvl.Sri Rajalakshmi Samappa Building Materials Company, Coimbatore District.
2. Assistant Director, Dept. of Geology and Mining, Coimbatore Letter Rc.No.875/Mines/2021, Dated: 02.12.2021.
3. Tvl.Sri Rajalakshmi Samappa Building Materials Company letter dated 29.12.2021

In response to the precise area communicated by the Assistant Director of Geology and Mining, Coimbatore the applicant Tvl.Sri Rajalakshmi Samappa Building Materials Company vide reference 3rd cited has submitted three copies of mining plan for the grant of Roughstone and Gravel quarry lease over an extent of 2.60.50 hectares of patta land in Survey Nos.1120/2 (1.52.50 Hec) and 1121/2 (1.08.00 Hec) of Bilichi Village, Coimbatore Taluk, Coimbatore District.


2. The mining plan submitted for the grant of Rough stone and gravel quarry lease over an extent of 2.60.50 hectares of patta land in Survey Nos.1120/2 (1.52.50 Hec) and 1121/2 (1.08.00 Hec) of Bilichi Village, Coimbatore Taluk, Coimbatore District has been verified in detail.

3. As per the guidelines/instructions issued by the Commissioner of Geology and Mining, Chennai vide letter Rc.No.3868/LC/2012, dated

19.11.2012, the mining plan is hereby approved, subject to the following conditions:

- (i) The 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) This approval of the mining plan does not in any way imply the approval of the Government in terms or any other provisions of the Mines and Minerals (Development and Regulation) Amended Act, 2015, or any other connected laws including Forest (Conservation) Act, 1980, Forest Conservation Rules, 1981, Environment Protection Act, 1980, Explosives Act, 1884 (Central Act IV of 1884) and the Rules made there under and the Tamil Nadu Minor Mineral Concession Rules, 1959.
- (iii) The mining plan is approved without prejudice to any other order or direction from any court of competent jurisdiction.
- (iv) As per the Assistant Director, Dept. of Geology and Mining, Coimbatore letter Rc.No.875/Mines/2021, Dated: 02.12.2021 the following conditions have been incorporated in the Mining Plan .
 - a) A safety distance of 7.5 meters should be provided for the adjacent patta lands from the lease applied area.
 - v) Quarrying shall be done as per the approved Mining Plan and that the 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.

Encl: Two copies of Approved Mining Plan.


Assistant Director,
Dept. of Geology and Mining,
Coimbatore.

Copy submitted to:
The Director of Geology and Mining, Chennai-32.


21/12/21

31 DEC 2021

MINING PLAN AND PROGRESSIVE QUARRY CLOSURE PLAN FOR BILICHI ROUGH STONE AND GRAVEL QUARRY

(PREPARED UNDER RULES 41 & 42 AS PER THE AMENDED UNDER TAMIL NADU MINOR MINERAL
CONCESSION RULES, 1959)

Lease period = Five years

IN

LOCATION OF THE QUARRY LEASE APPLIED AREA

EXTENT : 2.60.5Ha
S.F.Nos. : 1120/2 & 1121/2
VILLAGE : BILICHI
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMIL NADU

FOR

APPLICANT

Tvl. Sri Rajalakshmi Samappa
Building Materials Company,
No. 677/1A, Vellamadai,
Coimbatore District,
Tamil Nadu State – 641 110.

PREPARED BY

P. VISWANATHAN, M.Sc.,
Qualified Person

No.17, Advaita Ashram Road,
Alagapuram, Salem - 636 004.
Cell: +91 94422 78601 & 94433 56539.
E-Mail: infogeoexploration@gmail.com

31 DEC 2021

Tvl. Sri Rajalakshmi Samappa Building Materials Company,

No. 677/1A, Vellamadai,

Coimbatore District,

Tamil Nadu State – 641 110.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan and Progressive Quarry Closure plan in respect of Rough stone and Gravel Quarry lease applied area over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State has been prepared by

P. Viswanathan, M.Sc.,

Qualified Person

I request to the Assistant Director, Department of Geology and Mining, Coimbatore to make further correspondence regarding the modification of the Mining Plan with the said Qualified Person at his following address.

P. Viswanathan, M.Sc.,


No. 17, Advaita Ashram Road,

Alagapuram, Salem – 636 004.

Cell: 94433 56539.

I hereby undertake that all the modifications, if any made in the Mining Plan by the Qualified Person may be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Signature of the Applicant
For Tvl. Sri Rajalakshmi Samappa
Building Materials Company


S.Gnanasekaran

(Managing Partner & Authorized person)

Place: Coimbatore

Date: 06.12.2021

31 DEC 2021

Tvl. Sri Rajalakshmi Samappa Building Materials Company,
No. 677/1A, Vellamadai,
Coimbatore District,
Tamil Nadu State – 641 110.

DECLARATION OF THE APPLICANT

The Mining Plan and Progressive Quarry Closure plan in respect of Rough stone and Gravel Quarry lease applied area over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State has been prepared in full consultation with me.

I have understood its contents and agree to implement the same in accordance with Laws, Rules and Act applicable to Quarry.

Signature of the Applicant
For Tvl. Sri Rajalakshmi Samappa
Building Materials Company



S.Gnanasekaran
(Managing Partner & Authorized person)

Place: Coimbatore

Date: 06.12.2021



CERTIFICATE

Certified that I am, **P. VISWANATHAN**, M.Sc., having an office at Regd. Off. No. 17, Advaita Ashram Road, Alagapuram, Salem – 636 004, holding a Post Graduate Degree in Applied Geology (M.Sc., Applied Geology) from Periyar University, Salem and I worked in the field of Geology in a role of Geologist.

Rule 15(I)(a) and (b) of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 stipulates the eligibility for preparing Mining plans as “(I)(a) a post graduate degree in Geology granted by a university established” and (I)(b) “Professional experience of five years of working in a supervisory capacity in the field of mining after obtaining the degree”. Since my qualification and experience are satisfied the Rule (I)(a) and (I)(b) of 15 of the said Rules, I am eligible to prepare Mining Plans for both Major and Minor Minerals.

Accordingly, I am prepare this Mining Plan and Progressive Quarry Closure Plan in respect of Rough stone and Gravel Quarry for over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State for **Tvl. Sri Rajalakshmi Samappa Building Materials Company**, No. 677/1A, Vellamadai, Coimbatore District, Tamil Nadu State – 641 110. Since the Mining Plan is prepared as per the provisions contained in Rule 15(I)(a) and (I)(b) of Minerals (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016.

Signature of the Qualified Person



P. Viswanathan, M.Sc.,

Place: Salem

Date: 10.12.2021

P. Viswanathan, M.Sc.,

No.17, Advaita Ashram Road,

Alagapuram, Salem – 636 004.

Cell: +91 94422 78601 & 94433 56539.

31 DEC 2021

CERTIFICATE FROM THE QUALIFIED PERSON

This is to certify that the Provisions of under Rules 41 & 42 as per the Amended under Tamil Nadu Minor Mineral Concession Rules, 1959 have been observed in the preparation of Mining Plan and Progressive Quarry Closure plan for Rough stone and Gravel Quarry lease applied area over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State has been prepared for

Tvl. Sri Rajalakshmi Samappa Building Materials Company,

No. 677/1A, Vellamadai,

Coimbatore District,

Tamil Nadu State – 641 110.

Whenever specific permissions / exemptions / relaxations and approvals are required, the Applicant will approach the concerned authorities of the Assistant Director, Department of Geology and Mining, Coimbatore, Tamil Nadu 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.

Signature of the Qualified Person



P. Viswanathan, M.Sc.,

Place: Salem

Date: 10.12.2021

P. Viswanathan, M.Sc.,

No.17, Advaita Ashram Road,

Alagapuram, Salem-636 004.

Cell: +91 94422 78601 & 94433 56539.

31 DEC 2021

CERTIFICATE FROM THE QUALIFIED PERSON

Certified that the Provisions of Mines Act, Rules and Regulations and Orders made there under have been observed in the preparation of Mining Plan and Progressive Quarry Closure plan for Rough stone and Gravel Quarry lease applied area for over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State has been prepared for

Tvl. Sri Rajalakshmi Samappa Building Materials Company,

No. 677/1A, Vellamadai,

Coimbatore District,

Tamil Nadu State – 641 110.

Whenever specific permissions/ exemptions/ relaxations and approvals are required, the Applicant will approach the concerned authorities of Director General of Mines Safety (DGMS), No. 5, IInd Street, Block – AA, Anna Nagar, Chennai-40, Tamil Nadu for such permissions/exemptions/relaxations and approvals.

It is also certified that information furnished in the mining plan are true and correct to the best of my knowledge.

Signature of the Qualified Person



P. Viswanathan, M.Sc.,

Place: Salem

Date: 10.12.2021

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தமிழ்நாடு அரசு
31 DEC 2021

**MINING PLAN ALONG WITH PROGRESSIVE QUARRY CLOSURE PLAN FOR
BILICHI ROUGH STONE AND GRAVEL QUARRY**

(PREPARED UNDER RULES 41 & 42 AS PER THE AMENDED UNDER TAMIL NADU MINOR
MINERAL CONCESSION RULES, 1959)

1.0 INTRODUCTION AND EXECUTIVE SUMMARY

The Mining Plan and Environmental Management plan is prepared for **Tvl. Sri Rajalakshmi Samappa Building Materials Company**, having an office at No. 677/1A, Vellamadai, Coimbatore District, Tamil Nadu State – 641 110.

The applicant applied Rough stone and Gravel quarry over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 and 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State under Rules 19 (1) and 20 of Tamil Nadu Minor Mineral Concession Rules, 1959.

The application was processed by the Assistant Director, Department of Geology and Mining, Coimbatore and passed a Precise area Communication letter vide **R.C.No.875/Mines/2021, Dated: 02.12.2021** to submit Draft Mining Plan for approval and obtain Environmental Clearance from the State Level Environment Impact Assessment Authority, Tamil Nadu with following conditions to provide (Please refer Annexure No – I).

1. No hindrance shall be caused to the adjacent patta lands and Public while Rough Stone and Gravel quarry operation.
2. A safety distance of 7.5 meters should be provided to the adjacent Patta lands.
3. Child labour should not be engaged for any quarry works.

In order to ensure compliance of the order of the Honourable Supreme Court Dated: 27.02.2012 in I.A.No.12.13.2011 in Special Leave Petition SLP (C) No 19628-19629/2009, it has been now decided that all mining projects of minor minerals including their renewal irrespective of sizes of the lease would hence forth require prior environmental clearance mining project within the lease applied area up to less than 100Ha including projects or minor mineral with lease applied area less then 5Ha would be treated as category B as defined in the EIA notification 2006 and will be considered by the state Competent Authority notified by MoEF as prescribed procedure under EIA notification 2006.

In the above circumstances the applicant through his consultant is hereby preparing the mining plan along with Progressive Quarry Closure Plan for approval and subsequent submission of Form-I, Form-1M and Pre feasibility report to obtain environmental clearance from the State Level Environment Impact Assessment Authority, Tamil Nadu, Rough stone and Gravel quarry. This mining plan is prepared by considering the Rules 41 & 42 as Amended in Tamil Nadu Minor Mineral Concession Rules, 1959 and as per the EIA Notification 2006 and its subsequent Amendment and judgments till 24.01.2019.

Short Notes of Mining plan:

- a. Village Panchayat - Bilichi
- b. Panchayat Union - Periyamayakkanpalayam
- c. The Geological Resources are **9,15,950m³** of Rough stone and **51,136m³** of Gravel (**35,776m³** of Gravel + **15,360m³** of existing Gravel dump) in the entire area.
- d. The Total Mineable Reserves are **3,22,380m³** of Rough stone and **40,936m³** of Gravel (**25,576m³** of Gravel + **15,360m³** of existing Gravel dump) in the entire area.
- e. The proposed quantity of reserves/ (level of production) to be excavate are **2,53,220m³** of Rough stone for five years and **40,936m³** of Gravel (**25,576m³** of Gravel + **15,360m³** of existing Gravel dump) for first three years in the entire area.
- f. Total extent of the lease applied area is about 2.60.5Ha.
- g. Topography of the area = The area is flat topography
- h. Proposed Depth of mining = 37m (2m Gravel + 35m Rough Stone) below ground level.
- i. Lease Period = Five Years
- j. It is a fresh lease applied area but, the applied area having existing pit upto 1m depth. The land owners was removed the gravel and the same has been dumped on the Southern side within the applied are due to levelling and Agriculture (Rain fed crops) purpose. The maximum dimensions of the **existing pit** and **existing gravel dump** is given table below (Refer Plate No. II and III).

Table – 1

Existing Pit Dimension (Maximum)			
Length(m)	Width(m)	Depth(m)	Volume (m ³)
192	80	1	15,360

31 DEC 2021

Table – 2

Existing Gravel Dump Dimension (Maximum)			
Length(m)	Width(m)	Height(m)	Volume(m ³)
64	40	6	15,360

- k. Method of mining / level of mechanization.
Opencast mechanized method, the quarry operation involves shallow jack hammer drilling and slurry blasting.
- l. Type of machineries proposed in the quarrying operation is given below.
Excavators attached with rock breaker (Rental Basis).
Jack hammer, Compressor (Diesel drive) (4 Jack Hammer capacity) (Rental Basis).
- m. No trees will be uprooted due to this quarry operation.
- n. The approach road from the main road to quarry area is already existence and same will be maintained in a good condition for the haulage of quarry materials.
- o. There is No Export of this Rough stone and Gravel.
- p. Topo sketch covering 10Km and 1Km radius around the proposed area with markings of habitations, water bodies including streams, rivers, roads, major structure like bridges, wells, archeological importance, place of worship is marked and enclosed as Plate No. IA and IB.
- q. The lease applied area is about 2.60.5Ha bounded by six corners; the corners are designated as 1-6 clock-wise from the Southwest corner and the Co-ordinates for all the corners are clearly marked in the Quarry Lease Plan and Surface Plan enclosed as Plate No. – II.

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- r. The plans of proposed quarrying area showing the dimensions of the pit, their proposed depth and maximum area of proposed quarrying are and marked in the Topography, Geological, Yearwise Development and Production Plan and sections enclosed as Plate No. III.
- s. General conditions will not applicable for the proposed area. The area applied for lease is 10Km away from the,
- Interstate Boundary,
 - Protected area under wild life protection ACT 1972,
 - Critically polluted areas as identified by CPCB,
 - Notified Eco sensitive areas.
- t. There is no wastage anticipated during this quarry operation, hence waste dump is not proposed in the lease applied area.
- u. Around 29 employees are deploying in the quarrying operation.
- v. Total Cost of the project is about **Rs.84,64,000/-**.
- w. Infrastructures are bounded by the quarry lease applied area is given below table:

Table – 3

Particulars	Location	Approximate aerial distance from lease applied area.
Nearest Post Office	Vellamadai	3km – SW
Nearest School	Onnipalayam	1km – NE
Nearest Dispensary	Vellamadai	3km – SW
Nearest Hospital	Periyanayakkanpalayam	7km – SW
Nearest Police Station	Karamadai	6km – NW
Nearest Town	Periyanayakkanpalayam	7km – SW
Nearest D.S.P. Office	Periyanayakkanpalayam	7km – SW
Nearest Railway Station	Karamadai	6km – NW
Nearest Airport	Coimbatore	20km – South
Nearest Seaport	Kochi	160km – SW
District Head quarters	Coimbatore	20km – South

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2.0 GENERAL INFORMATION

- 2.1 a) Name of the Applicant :** Tvl. Sri Rajalakshmi Samappa Building
Materials Company,
- b) Address of the Applicant (With Phone No and Aadhaar No.)**
- Address : No. 677/1A, Vellamadai,
District : Coimbatore
Pin Code : 641 110
Mobile No : +91 99763 64777 and 86673 84540
Aadhaar No : 4171 8521 8213 (Refer Annexure No. X)
Email ID : srsbc2019@gmail.com

c) Status of the Applicant (Individual / Company / Firm):

The applicant is a Partnership firm, the partnership deed executed on 22.04.2019 with four partners under the Indian Partnership act, 1932 (Refer Annexure No. VIII). Thiru.S.Gnanasekaran is an Authorized person for signing the documents on behalf of the firm (Refer Annexure No. IX and X).

2.2 a) Mineral which the Applicant intends to mine:

The Applicant intends to quarry Rough stone and Gravel.

b) Precise area communication letter details received from the Competent Authority of the Government:

The precise area communication letter was received from the Assistant Director, Department of Geology and Mining, Coimbatore vide **R.C.No. 875/Mines/2021, Dated: 02.12.2021.**

c) Period of permission / lease to be granted:

Five years.

d) Name and address of the Qualified Person who preparing the mining plan:

- Name : P. Viswanathan, M.Sc.,
Qualified Person
- Address : No.17, Advaita Ashram Road,
Alagapuram,
Salem - 636 004.
- Mobile : +91 94422 78601 & 94433 56539
Telephone No. : 0427- 2431989
Email : infogeoexploration@gmail.com

(Refer Annexure No. XI and XII)

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3.0 LOCATION

a) Details of the area with location map:

The lease applied area is located about 20km Northern side of Coimbatore town and 4km Eastern side of Bilichi Village.



Location Map of the Lease Applied area

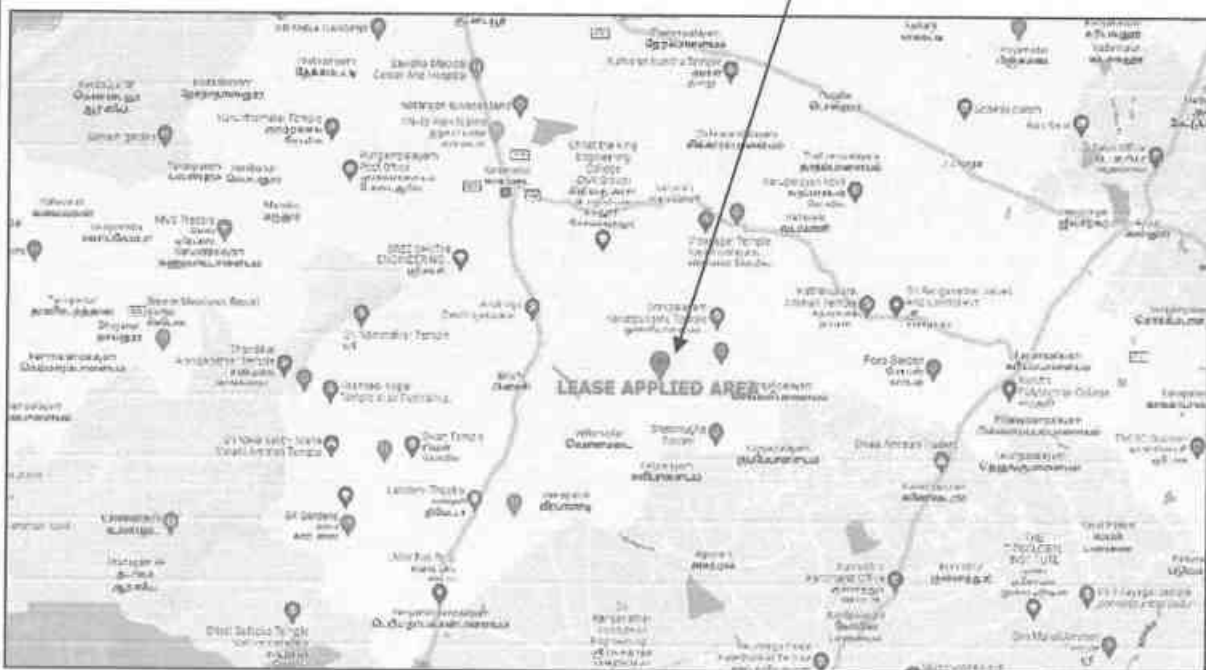
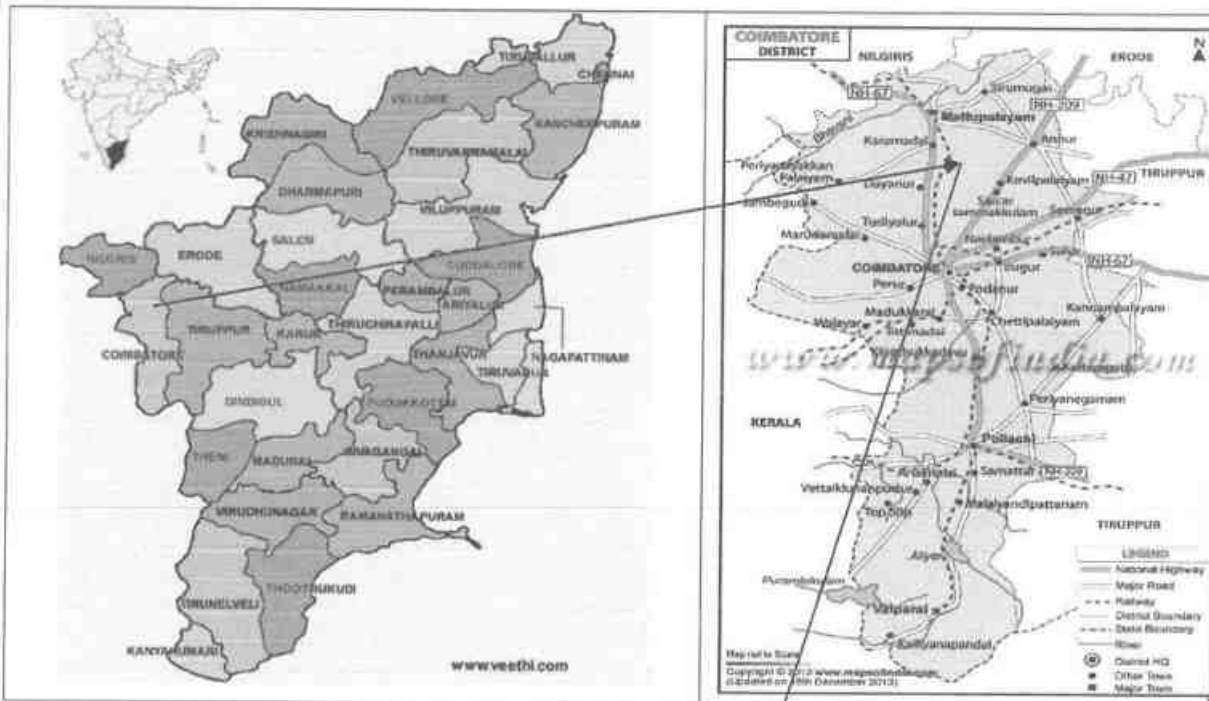


Table - 4

District	Taluk	Village	S.F. No.	Area in Ha.	Patta No.
Coimbatore	Coimbatore North	Bilichi	1120/2	1.52.5	3450
			1121/2	1.08.0	
			Total	2.60.5	

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b) Classification of the area (Ryotwari/ Poramboke / others):

It is a Patta land (Barren land).

c) Ownership / Occupancy of the applied area (surface right):

It is a Patta land, jointly registered in the name of Thiru. P. Siddharthamouli and Thiru. G. Srikanth vide Patta No. 3450 (Refer Annexure Nos. IV to VI). The applicant company has obtained consent from the pattadars for the period of ten years from the date of execution of lease deed (Refer Annexure No. VII).

d) Toposheet No. with latitude and longitude:

The lease applied area falls in the Toposheet No: 58-A/16 Latitude between: 11°11'51.42"N to 11°12'01.24"N and Longitude between: 76°59'38.35"E to 76°59'41.55"E on WGS datum-1984. Please refer the Plate Nos. I to II.

e) Existence of public road / Railway line, if any nearby and approximate distance:

The approach road is situated on the Southeast side which is connects to the Onnipalayam - Kalipalayam Village road situated at 770m on the Eastern side of the area. Multiple road access is available from the quarry to state highways and National Highway, no towns are enrooted hence the traffic density is not much more due to the transportation of Rough stone and Gravel.

The road from the quarry area is already in existence, the same will be maintained and utilized for haulage of Rough stone and Gravel.

The Nearest Railway line is Coimbatore - Mettupalayam which is located about 3km on the Western side of the area.

PART - A**4.0 GEOLOGY AND MINERAL RESERVES****4.1 Brief description of the Topography and general Geology of the area (with plans):**

The lease applied area is flat terrain. The gradient is gentle towards Northern side and altitude of the area is 426m above from Mean Sea level. The area is covered by 2m thickness of Gravel and followed by Massive Charnockite which is clearly inferred from the outcrop.

The Water level in the surrounding area is 64m in summer and at 59m in rainy seasons below general ground profile which is observed from the nearby bore wells. Average annual rainfall is about 689mm.

Images of Bilichi Rough Stone and Gravel Quarry lease applied area

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Fencing

Peninsular gneiss forms the oldest rock formations, in which the massive formation of Charnockite lies over with rich accumulation of recent quaternary formation. On regional scale the Charnockite body N45°E – S45°W with dipping towards SE80°.

The general geological sequences of the rocks in this area are given below:

↑	AGE	FORMATION
	Recent	- Quaternary formation (Gravel)
	-----Unconformity-----	
	Archaean	- Charnockite
		Peninsular Gneiss complex

4.2 Details of exploration already carried out if any:

State Geology and Mining Department, Govt. of Tamil Nadu, has carried out the Regional prospecting and exploration in these areas during 1992 to 1993.

Geological Survey of India has carried out detailed mapping in Coimbatore District. Besides, the Qualified Person and his team members made a detailed geological study of the proposed area. The Rough stone formation is clearly inferred from the outcrop.

4.3 Estimation of Reserves:

a) Geological reserves with geological sections on a scale of 1:1000 / 1:2000

As far as Rough stone (Charnockite) is concerned, the only practical method is the systematic geological mapping and delineation of Rough stone within the field and careful evaluation of body luster, physical properties, engineering properties, commercial aspects etc.,

Totally three sections have been drawn, one section drawn vertically as (X-Y) Length wise and other two cross sections are drawn perpendicular to strike as (A-B and C-D) Width wise to cover the maximum area considered for calculation upto 37m depth.

The Topographical, Geological plan and sections demarcated the commercial marketable Rough stone (Charnockite) deposit has been prepared in the scale of 1:1000 (please refer the Geological plan and sections Plate No- III). As the sale of Rough stone are in terms of cubic metres (Volume) only and not in terms of tonnage.

Geological Resources (Plate No. III):**31 DEC 2021**

The Geological Resources of Rough Stone and Gravel Quarry are calculated upto a maximum depth of 37m (2m Gravel + 35m Rough Stone) below from the general ground level.

The total available geological resources are given below (Refer Plate No. III).

Table -- 5

Section	Bench	Length (m)	Width (m)	Depth (m)	Geological Resources of Rough stone in (m ³)100%	Gravel (m ³)
XY-AB	I	202	8	1	-	1616
	I	202	90	1	-	18180
	II	202	90	5	90900	-
	III	202	90	5	90900	-
	IV	202	90	5	90900	-
	V	202	90	5	90900	-
	VI	202	90	5	90900	-
	VII	202	90	5	90900	-
	VIII	202	90	5	90900	-
	Total					636300
XY-CD	Dump	64	40	6	-	15360
	I	94	85	2	-	15980
	II	94	85	5	39950	-
	III	94	85	5	39950	-
	IV	94	85	5	39950	-
	V	94	85	5	39950	-
	VI	94	85	5	39950	-
	VII	94	85	5	39950	-
	VIII	94	85	5	39950	-
	Total					279650
Grand Total					915950	51136

The Available Geological Resources and Existing dump of Gravel : **51,136m³**

The Available Geological Resources of Rough Stone : **9,15,950m³**

Mineable Reserves:

The mineable reserves are calculated after leaving the safety distance and Bench class. DEC 2021

Table – 6

Section	Bench	Length (m)	Width (m)	Depth (m)	Mineable Reserves of Rough stone in (m ³)100%	Gravel (m ³)
XY-AB	I	192	73	1	-	14016
	II	190	68	5	64600	-
	III	185	58	5	53650	-
	IV	180	48	5	43200	-
	V	175	38	5	33250	-
	VI	170	28	5	23800	-
	VII	165	18	5	14850	-
	VIII	160	8	5	6400	-
	Total					239750
XY-CD	Dump	64	40	6	-	15360
	I	85	68	2	-	11560
	II	83	62	5	25730	-
	III	78	52	5	20280	-
	IV	73	42	5	15330	-
	V	68	32	5	10880	-
	VI	63	22	5	6930	-
	VII	58	12	5	3480	-
	Total					82630
Grand Total					322380	40936

Total Mineable Recoverable Reserves of Rough stone @ 100% : 3,22,380m³

Total Mineable Reserves of Gravel and existing dump : 40,936m³

The mineable reserves have been computed as 3,22,380m³ of Rough stone at the rate of 100% recovery and 40,936m³ of Gravel upto a depth of 37m (2m Gravel + 35m Rough Stone) below from the general ground level for a period of five years.

5.0 MINING**5.1. Method of mining (opencast / underground):**

Open cast Mechanized Mining is being carried out with 5.0 meter vertical bench with a bench width is not less than the bench height.

However, as far as the quarrying of Rough stone is concerned, observance of the provisions of Regulation 106 (2) (b) as above is seldom possible due to various inherent petro genetic factors coupled with mining difficulties. Hence it is proposed to obtain relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with the Regulation 106 (2) (b) of MMR-1961, under Mine Act - 1952.

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5.2. Mode of working (mechanized, semi mechanized, manual):

The Rough Stone is proposed to quarry at 5m bench height & width with conventional Opencast Mechanized Method.

The quarry operation involves shallow jack hammer drilling, slurry explosives in blasting, excavation, Loading and transportation of Rough stone to the needy crusher.

The production of Rough stone in this quarry involves the following method which is typical for Rough Stone quarrying in contrast to other major mineral mining.

Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and slurry explosives blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy crushers.

Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting. The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators. It is a conventional opencast mechanized method of mining.

5.3. Proposed Bench Height and Width:

The bench height is proposed 5.0 meter in Rough stone as vertical bench and 3m in Gravel with 45° slope the width of the bench is not less than the Height.

5.4. Indicate the overburden / mineral production expected pit wise as detailed below (composite plan and section showing pit layout, dumps, disposal of waste if any etc.):

The overburden is Gravel formation. The Gravel will be directly loaded into tippers for the filling and levelling of low lying areas, this will be done only after obtaining permission and paying necessary seigniorage fee to the Government. The excavated rough stone will be directly loaded into tippers to the needy customers. The Composite year wise Development and production plan and sections indicating the Pit lay out, Green belt development are shown in Plate No-III.

Year wise Development and Production Table

Table - 7

Section	Year	Bench	Length (m)	Width (m)	Depth (m)	Recoverable Reserves of Rough stone in (m ³)100%	Gravel (m ³)	
XY-AB	I	I	192	73	1	-	14016	
		II	138	68	5	46920	-	
		III	12	58	5	3480	-	
		Total					50400	14016
XY-CD	II	DUMP	64	40	6	-	15360	
XY-AB		III	116	58	5	33640	-	
		IV	70	48	5	16800	-	
		Total					50440	15360
XY-CD	III	III	5	58	5	1450	-	
		IV	58	48	5	13920	-	
		I	85	68	2	-	11560	
		II	50	62	5	15500	-	
	IV	III	45	52	5	11700	-	
		IV	40	42	5	8400	-	
		Total					50970	11560
		XY-AB	V	II	33	62	5	10230
III	33			52	5	8580	-	
IV	33			42	5	6930	-	
V	68			32	5	10880	-	
VI	63			22	5	6930	-	
VII	58			12	5	3480	-	
V	15			38	5	2850	-	
VI	10			28	5	1400	-	
Total					51280	-		
XY-AB	V	V	108	38	5	20520	-	
		VI	108	28	5	15120	-	
		VII	113	18	5	10170	-	
		VIII	108	8	5	4320	-	
		Total					50130	-
Grand Total						253220	40936	

Total proposed Reserves of Rough stone @ 100% : 2,53,220m³

Total proposed Reserves of Gravel & Existing gravel dump : 40,936m³

The Recoverable reserves have been computed as 2,53,220m³ of Rough stone at the rate of 100% recovery for the period of five years and 40,936m³ of Gravel for a period of first three years upto a depth of 37m (2m Gravel + 35m Rough Stone) below ground level.

The applicant ensures the total quantity proposed in the benches will not exceed during the quarrying operation. Besides the rough stone locked up in benches will be exploited after obtaining necessary permission from the office of Director General of Mine Safety, Chennai region by submitting relevant documents, appropriate safety plans and its Mitigation measures.

One lorry load	=	6m ³ (approx.)
Total No of Working days	=	300 Days per year
Total Rough Stone to be removed during plan period	=	2,53,220m ³
Hence total Lorry loads per day	=	2,53,220m ³ /6m ³
	=	42,203 Lorry loads
	=	42,203/5 years
	=	8,441/300 days
Rough Stone	=	28 Lorry loads per day
Total gravel to be removed during first three years	=	40,936m ³
Hence total Lorry loads per day	=	40,936m ³ /6m ³
	=	6,823 Lorry loads
	=	6,823/3 years
	=	2,274/300 days
Gravel load per day	=	8 Lorry load per day
Working hours = 8.45 am to 5.45 pm (with 12.45-1.45 P.M. lunch break)		

5.5. Machineries to be used:

For Mining:

The following machineries are utilized on rental basis for the development and production work at this quarry.

Table – 8

I. DRILLING MACHINE

S.No.	Type	Nos	Dia Hole mm	Size Capacity	Motive power
1	Jack hammer	6	30-35	1.2m to 2.0m	Compressed air
2	Compressor	2	-	400 psi	Diesel Drive

II. EXCAVATION & LOADING EQUIPMENT:

S.No.	Type	Nos	Capacity	Motive Power
1	Excavator with Bucket and Rock Breaker	2	300	Diesel Drive

III. HAULAGE WITHIN THE MINE & TRANSPORT EQUIPMENT:

S.No.	Type	Nos	Capacity	Motive Power
1	Tippers	4	20 tonnes	Diesel Drive

5.6. Disposal of Overburden/Waste:

The overburden in the form of Gravel, the Gravel will be directly loaded into tippers for the filling and levelling of low lying areas. The excavated Rough stone (100%) will be directly loaded into tippers to the needy customers. There is no Waste anticipated during this plan period hence, disposal of overburden/waste does not arise.

5.7. Brief note on conceptual mining plan for the entire lease period base on the geological, mining and environmental considerations:

Conceptual mining plan is prepared with an object of long term systematic development of benches, layouts, selection of permanent structures, depth of quarrying and ultimate pit dimensions, selection of sites for construction of infrastructure, etc.,

The ultimate pit size is designed based on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc.,

As the applicant has applied quarry lease for Five years, the ultimate pit limit (dimension) at the end of this mining plan period is given below:

Table – 9

Length (Max) (m)	Width (Max) (m)	Depth (Max) (m)
280	83	37m Below ground level

Greenbelt has proposed on the safety zone and Panchayat roads by planting Neem, Pongamia pinnata, Casuarina, etc., trees of native species. All the base line information studies like Air quality monitoring, Noise and vibration monitoring, Water analysis studies will be carried out every year as per the MoEF&CC Norms. Please refer Plate No. III & IV.

It is propose to engage any local institution to monitor the EIA and EMP during the course of quarrying operation after the grant of quarry lease.

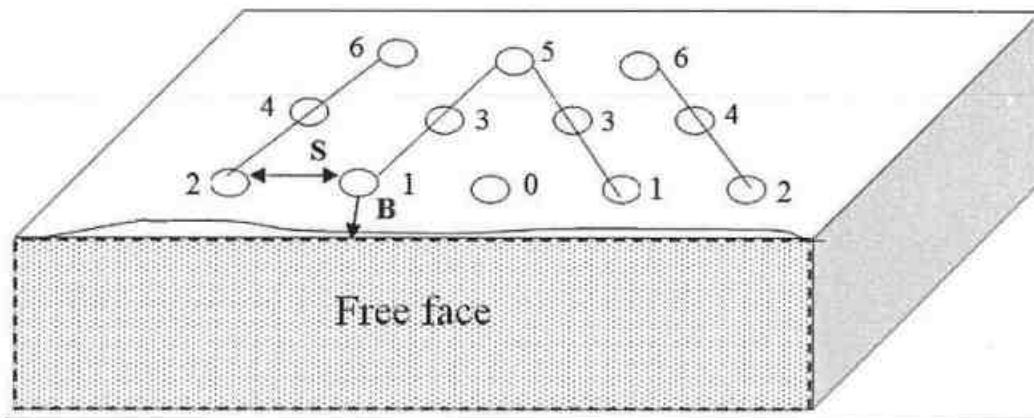
There is no waste anticipated during the entire life of quarry. Hence, backfilling is not possible in this quarry. After completion of quarry operation, the quarried out pit will be utilized for collect the seepage rainwater and the water storage will be kept as reservoir for charging the nearby wells also utilized for green belt development. The quarry area already fenced with barbed wire fencing, safety bund will be constructed around the quarry to prevent inadvertent entry of public and cattle (Refer plate no. IV).

6.0 BLASTING**6.1 Blasting pattern:**

The quarrying operation is proposed to be carried out by Mechanized Opencast Method in conjunction with conventional method of mining using Jack hammer drilling and blasting of shattering effect for loosening the Rough stone.

Drilling and blasting parameters are as follows:

Depth of Each hole	:	1.5m
Diameter of hole	:	30-32mm
Spacing between holes	:	1.2m
Burden for hole	:	1.0m
Pattern of hole	:	Zigzag – Multi-rows
Inclination of holes	:	80° from horizontal
Use of delay detonators	:	25millisecond relays
Detonating fuse	:	“Detonating” Cord

BLASTING PATTERN DRAWING**Staggered “V” Pattern of Blasting Design**

Spacing	=	1.2m
Burden	=	1.0m
Depth of the hole	=	1.5m
No of holes proposed per day	=	146 Holes

6.2 Type of explosives to be used:

Small Dia. 25mm Slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Rough stone. No deep hole drilling or secondary blasting is proposed.

6.3 Measures proposed to minimize ground vibration due to blasting:

The quarry is situated more than 300m from the nearby villages, Controlled blasting measures is being adopt for minimizing ground vibration and fly rock.

Shallow depths jackhammer drilling & blasting is proposed to be carried out with minimum use of explosive mainly to give hearing effect in rough stone for easy excavation and to control fly rock.

Delay detonators:

Delay blasting (millisecond delays) permits to divide the shot in to smaller charges, which are detonated in a predetermined millisecond sequence at specific time intervals.

The major advantages of delay blasting are:

- Reduction of ground vibration.
- Reduction in air blast.
- Reduction in over break.
- Improved fragmentation.
- Better control of fly-rock.

Blasting program for the production per day:

No of Holes	= 146 Holes
Yield	= 438 Tons
Powder factor	= 6 Tons/Kg of explosives
Total explosive required	= 73 Kg-Slurry explosives
Charge/ hole	= 0.5 Kg
Blasting at day time only	= 12.30 – 1.00p.m (whenever required)

6.4 Storage and safety measures to be taken while blasting:

The applicant will engage authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory foreman/Permit Mines Manager. The explosives agencies should be have the valid Blaster certificate. He will blast holes in the quarry site. After the completion of Blasting the explosives Agencies will take it out back the remaining quantity of Explosives. The magazine is available at the quarry site to temporarily store the explosives.

7.0 MINE DRAINAGE**7.1 Depth of water table (based on nearby wells and water bodies):**

The water table in the area is about 64m BGL in summer season and 59m in Rainy season which is observed from the nearby bore well the data obtained from existing private boreholes. The lease applied area is fully covered by Massive Charnockite formation and it is revealed from the outcrop. Hence the Ground Water problem will not arise. If water seepage may occur due to the fracture, the same will be used for Greenbelt.

Table – 10

Type	Distance & Direction	Location
Bore Well	200m – Northeast side	11°12'05.56"N 76°59'46.39"E

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7.2 Arrangements and places where the mine water is finally proposed to be discharged:

The quarry operations are confined to well above the water table during the entire lease period. If water is encountered at quarry due to rain water and seepage, the same will be pumped out by 5HP water pump and discharge to the Green belt development areas. Besides, the water will also be used for dust suppression on haul roads during mineral transportation.

8.0 OTHER PERMANENT STRUCTURES (also shown in the map)

8.1 Habitations/ Villages natham:

There is no approved habitation within 300m radius from the lease applied area.

8.2 Power Lines (HT/LT):

There is no EB(LT/HT) line or Housing area situated within 50m radius of the area.

8.3 Water bodies (river, pond, lake, odai, canal, etc.):

There is no River, Pond, Lake, Canal, Reservoir located within 50m radius of the area.

8.4 Archaeological / historical monuments:

There is no Archaeological / historical monument within 500m radius of the area.

8.5 Road (NH, SH others):

The Nearest National Highway (NH - 181) Coimbatore – Mettupalayam is situated about 3km on the Western side of the lease applied area.

The State Highway (SH-168) Karamadai – Kariampalayam Road is about 4km on the Northern side of the applied area.

8.6 Places of worships:

There is no place of worships within the radius of 500m from the lease applied area.

8.7 Reserved forest / forest / social forest / wild life sanctuary etc.:

There is no reserved forest / social forest / wild life sanctuary etc., situated within 1km radius of the lease applied area.

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SALIENT FEATURES

Table – 11

S. No.	Salient Features Present around the site	Prescribed safety distance	If any present within Prescribed distance - Actual Distance and direction from the site			
1.	Railways, Highways, Reservoirs or Canal	50m	None of the above situated within 50m radius.			
2.	Village Road	10m	There is no village Road located within 10m Radius of the area.			
3.	Habitation / Village	300m	There is no approved habitation located within 300m radius of the lease applied area (Refer Plate No I-B).			
4.	Adjacent Patta/Govt. Land	7.5m/10 m	Direction	S.F.No.	Classification	Safety Distance
			North	1121/1	Patta land	7.5m
			East	1120/3 and 1121/3	Patta land	7.5m
			South	Vellamadai village	Patta land	7.5m
			West	1120/1 and 1121/1	Patta land	7.5m
(Refer Plate No. II).						
5.	Power House, EB line (HT & LT Line)	50m	There is no EB(LT/HT) line or Housing area situated within 50m radius of the area.			
6.	Boundaries of the permitted area	7.5m	The boundaries of the permitted areas as follows: North – S.F.No. 1121/1 East – S.F.Nos. 1120/3 and 1121/3 South – S.F.No. Vellamadai Village West – S.F.Nos. 1120/1 and 1121/1. (Refer Plate No. II).			
7.	Reserve forest	1km	There is no reserved forest located within the radius of 1km from the lease applied area.			
8.	Protected area / ECO sensitive area/ Wild Life Sanctuary/ Interstate Border	10km	There is no ECO sensitive Zone/ Wild Life Sanctuary/ Interstate Border/ Critically Polluted Area/ HACA/ CRZ located within 10km radius of the area.			

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9.0 EMPLOYMENT POTENTIAL & WELFARE MEASURES

9.1 Employment potential (skilled, semi-skilled, un skilled):

The following manpower's are proposed in the mining plan to carry out the day-to-day quarrying activities, the same employment is maintaining aimed at the proposed production target and also to comply with the statutory provisions of the Metalliferous mines regulations, 1961.

a. Mine official & Competent Persons

Mines Manager/Mines Foreman	:	1
Mate/Blaster	:	1

b. Machinery Operators

Jack hammer operator	:	12
Excavator Operator	:	2
Tipper Driver	:	4

c. Ordinary Employee

Helper	:	2
Cleaner & Co-Operator	:	6
Security	:	1
Total	:	29

The above manpower is adequate to meet out the production schedule and the machinery strength envisaged in the mining plan and to comply with the statutory provisions of the Mines Safety Regulations. It is been ensured that the labour will not be employed less than 18 years, **No child labour** will engaged or entertained for any kind of quarrying operations. All the labours engaged for quarrying operations will be insured during the quarry lease period.

9.2 Welfare Measures:

a) **Drinking Water:**

Packaged drinking water is available from the nearby water vendors in Pariyanayakkanpalayam town which is located about 7km on the Southwest side of the lease applied area.

b) **Sanitary Facilities:**

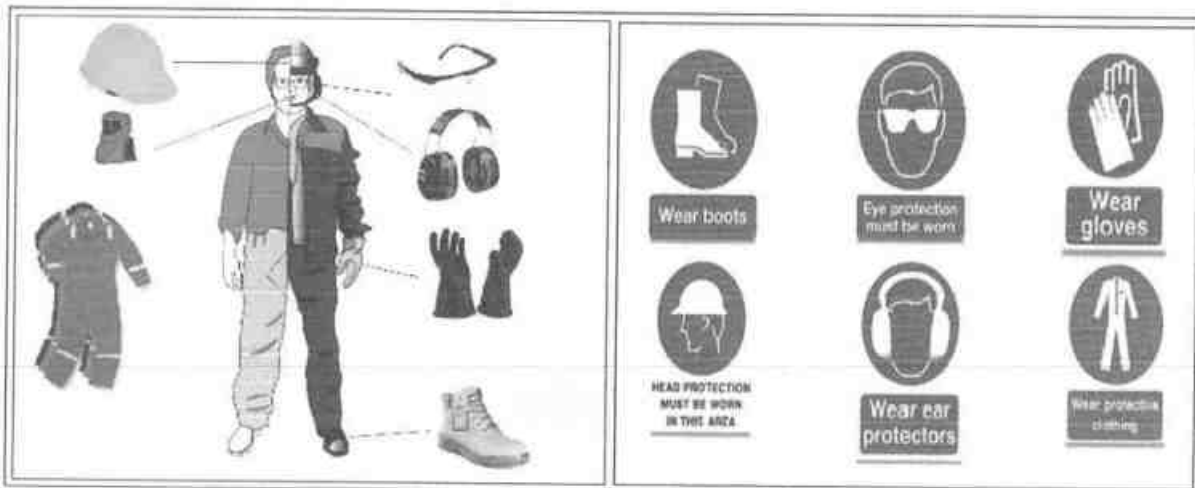
Hygienic modern Sanitary Facilities will be constructed as semi permanent structure and it will be maintained periodically as hygienic.

c) First aid facility:

First aid kits are kept in Mines office room, in case of such eventuality is the victim will be given first aid immediately at the site by the competent and statutory permit manager/mate will be in charge of first aid and injured person will be taken to the hospital by the applicant's vehicle. Hospital is available in Pariyanayakkanpalayam town which is located about 7km on the Southwest side.

d) Labour Health:

Periodically medical check-up related to occupational health safety will be conducted to all the workers in applicant own cost.

e) Precautionary safety measures to the labourers:

- Helmets,
- Mine Goggles,
- Ear plugs,
- Ear muffs,
- Dust mask,
- Reflector jackets
- Safety Shoes

All personnel protective devices will be provided as per the specification approved by Director of mines safety. Periodically medical check-up will be conducted for all workers for any mine health related problems. Proper training and vocational education will be given by qualified and experienced safety officer to all the employees about the safety and systematic Rough stone quarrying operations. The workers will be sent for vocational training periodically, to carry out the quarrying operations scientifically and to safe guard the workers and to create awareness about conventional opencast quarrying operations.

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PART – B**10.0 ENVIRONMENT MANAGEMENT PLAN****10.1 Existing Land use pattern:**

The quarry lease applied area is flat terrain. The area is a dry barren land devoid of Agriculture and Habitations. The lease applied area has utilized for Sorghum and Pearl millet (Rain fed) crops purpose in earlier.

Land Use Pattern

Table – 12

Description	Present area in (ha)	Area utilized (%)
Area under quarry	1.46.5	56.2
Dump	0.25.6	9.8
Infrastructure	Nil	-
Roads	0.02.0	0.8
Green Belt	Nil	-
Unutilized	0.86.4	33.2
Grand Total	3.62.0	100

10.2 Water Regime:









It is a simple opencast quarry operation. The quality of water will not be affected due to this quarrying operation. However, mitigation measures will be carried out like Garland drains constructed on all sides of quarry pit to avoid surface run-off rain water entering into the pit.

The waste water discharged to water bodies will be met the standard prescribed under the Environment (Protection) Act – 1986 by The Ministry of Environment, Forest and Climate change.







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10.3 Flora and Fauna:

Table – 13

S.No	Name of the plant (Scientific)	Family Name	Common Name	Habit	Picture
1.	<i>Prosopis juliflora</i>	Fabaceae	Seemai karuvelam	Tree	
2.	<i>Azadirachta indica</i>	Meliaceae	Neem, Vembu	Tree	
3.	<i>Cocos nucifera</i>	Arecaceae	Thennai	Tree	
4.	<i>Opuntia ficus-indica</i>	Cactaceae	Cactus, kalli	Shrub	
5.	<i>Borassus flabellifer</i>	Arecaceae	Panai	Tree	
6.	<i>Eucalyptus obliqua</i>	Myrtaceae	Eucalyptus, Thailamaram	Tree	
7.	<i>Sorghum bicolor</i>	Poaceae	Solam	Crop	
8.	<i>Cenchrus americanus</i>	Poaceae	Kambu, Pearl/Grain Millet	Crop	

List of Fauna

S.No.	Scientific Name	Common Name	Picture
1.	<i>Capra aegagrus hircus</i>	Goat	
2.	<i>Funambulus palmarum</i>	Squirrel	
3.	<i>Bos taurus</i>	Cow	
4.	<i>Danaus plexippus</i>	Striped tiger	
5.	<i>Corvus levaillantii</i>	Crow	
6.	Indian cobra	Snake	

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10.4 Climatic Conditions:

The area receives rainfall of about 689mm/annum and the rainy season is mainly from Oct - Dec during monsoon. The summer is hot with maximum temperature of 42°C and winter encounters a minimum temperature of 21°C.

10.5 Human settlement:

There are few villages located within 5km radius of the area; the approximate distance, direction and populations are given below:

Table – 14

S. No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population
1.	Bilichi	4km – West	10,500
2.	Onnipalayam	1km – NE	1,200
3.	Vellamadai	3km – SW	7,000
4.	Sengalipalayam	3km – East	1,000

Basic human welfare Amenities such as Health Centre, Schools, Communication Facilities, and Commercial Centres etc., are available at Periyamayakkanpalayam located at a distance of 7km on the Southwest side of the area.

10.6 Plan for air, dust suppression:

The air quality will be affected by the Suspended Particulate Matter (SPM) generated by the blasting, jack hammer drilling, Loading and unloading during the Rough stone quarry operation.

The following Mitigations measures will be carried out:

- Mist Water spraying will be carried out by means of water sprinklers to suppress the dust emission in the Haul roads.
- Vegetations will be formed on the non quarrying area.
- Avoiding spillages during the transportation.

Air quality will be monitored periodically as per Norms and Mitigate measures carried out to prevent dust and Air propagation in to air. The estimated budget for dust suppression would be around **Rs.52,000/year**.

10.7 Plan for Noise level control:

The noise level increased due to the Excavation, Drilling, Blasting and Transportation.

Engineering Noise control:

Noise will be created due to the usage of Machineries and Vehicles. The Noise will be controlled in the following manner.

- Selection of new low – noise equipments for the Rough stone quarry operation.
- Modifications of older equipments.
- Implementation of effective preventive maintenance which reduces noise more than 50%.
- Developing Green belts which act as Acoustic barrier, pollution absorbent and noise controller.
- The drivers will be strictly instructed to move the vehicle during the transportation not exceed 40km per hour.
- Sentries with flags & whistle will posted in village road junction and populated area to control and regulate traffic.

Shallow holes of 32mm diameter and maximum depth of 1.5m will be drilled and conventional low power explosives such as Slurry Explosives, ordinary safety fuse will be used for rough stone. Hence, ground vibration and noise pollution i.e., minimal and restricted within the quarry working area.

Noise level monitoring and other Mitigation measures will be carried out to reduce Noise and Vibration. The estimated budget for Noise level monitoring would be around **Rs.2,000/Year**.

10.8 Environmental impact assessment statement describing impact of mining on the next five years:

In the mining plan proposed for a production of Rough stone does not involve deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on the environment. As far as pollution of air, water and noise concerned, the environmental impact studies will be conducted as per EIA notification issued by MoEF& CC. It is B2 Category mine. The estimated budget would be around **Rs.3,80,000/-**.

10.9 Proposal for waste management:

There is no waste anticipated in this Rough stone and Gravel quarrying operation. The entire quarried out materials will be utilized (100%).

10.10 Proposal for reclamation of land affected during mining activities and at the end of mining (refilling / fencing etc.):

In the mining plan only to a maximum depth of 37m [2m Gravel + 35m Rough stone] has been envisaged as workable depth for safe & economic quarry operation during entire lease period. The quarry area fenced with Barbed wire fencing also safety bund will be constructed around the quarry to prevent inadvertent entry of public and cattle. There is no waste hence, no proposal for backfilling. The barbed wire fencing cost would be around **Rs. 2,25,000/-**.

10.11 Programme of Greenbelt development (indicate extend, number, name of species to be afforested):

The safety zone along the Western side boundary barrier has been identified to be utilized for Greenbelt development. Appropriate native species of Neem, Pongamia pinnata, Casuarina, etc., trees will be planted in a phased manner as described below.

Table – 15

Year	No. of trees proposed to be planted	Survival %	Area to be covered sq.m.	Name of the species	No. of trees expected to be grown
I	40	80%	320	Neem, Pongamia pinnata, Casuarina, etc.,	32
II	40	80%	320		32
III	40	80%	320		32
IV	40	80%	320		32
V	40	80%	320		32

Nearly 1,600m² area is proposed to use under Greenbelt by planting 200 Numbers of trees during mining plan period with an anticipated survival rate of 80% (Please refer Plate No.III). The estimated budget for plantation and maintenance of Green belt development would be around **Rs. 20,000/-** for the period of five years.

The Greenbelt Development will be formed along the quarried out top bench and approach. The cost would be around **Rs. 30,000/-**

10.12 Proposed financial estimate / budget for (EMP) environment management:

Budget Provision for the Mining Plan period:

Table – 16

S. No	Monitory and Analysis Description	Rate per location	No. of location	Total Charges/ six months	Total Charges/ year
1	Ambient air quality monitoring	6500	4	26000	52000
2	Noise level monitoring	250	4	1000	2000
3	Ground vibration monitoring	1000	2	2000	4000
4	Water sampling and analysis	9000	1	9000	18000
Total EMP Cost/ year					76,000

The EMP cost would be around **Rs. 3,80,000/-** for the period of five years.

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A. Project cost / investment		
i) Land cost	The Land value as per the Government Guideline land cost is calculated as follows. Total Extent = 2.60.5Ha Cost per Hectare = Rs. 14,90,500/- 2.60.5 x 14,90,500/- = Rs. 38,82,753/- (source: https://tnreginet.gov.in/portal/)	Rs.38,83,000/-
ii) Machinery to be used	The following machineries are proposed to meet out the productions. Excavator attached with rock breaker Tipper, Tractor mounted compressor with Jack Hammer and loose tools (Rental Basis)	Rs.30,00,000/-
iii) Refilling/ Fencing	Fencing will be constructed around the quarry pit to prevent the inadvertent entry of public and cattle cost would be around	Rs.2,25,000/-
iv) Labourers shed	Labour sheds constructed as semi permanent structure. The cost is around	Rs. 2,00,000/-
v) Sanitary facility	Adequate latrine and urinal accommodation has provided at conveniently accessible places the cost would be around	Rs. 80,000/-
vi) Others items	First aid room & accessories	Rs. 40,000/-
vii) Drinking water facility for the labourers	Packaged drinking water will be provided for all the Labours. Drinking water will be readily available at conveniently accessible points during the whole of the working shift the cost would be around	Rs.1,00,000/-
viii) Sanitary arrangement	The latrine and urinal will keep clean and sanitary condition. The maintenance cost would be around	Rs. 50,000/-
ix) Safety kit	All the Safety kit such as Helmet, Earmuffs, Goggles, Reflector Jackets, Safety shoes etc., will be provided to the workers by the applicant own cost which would be around	Rs.40,000/-
x) Water sprinkling	Water will be sprinkled in the haul roads by water sprinklers the cost would be around	Rs.1,00,000/-
xi) Garland drain	Construction of Garland drain with check dam to prevent surface run-off rain water in to the quarry pit, the construction cost is around	Rs. 1,50,000/-
xii) Greenbelt etc.	Greenbelt development and maintenance will be carried out in the boundary barriers the cost would be around	Rs.20,000/-
	Greenbelt development and maintenance will be carried out in the quarried out top bench and approach Road	Rs.30,000/-
Total Project Cost		Rs.79,18,000/-



B. EMP Cost :- (Per year)	
Air Quality monitoring	= Rs. 52,000/-
Water Quality Sampling	= Rs. 18,000/-
Noise Monitoring	= Rs. 2,000/-
Ground vibration test	= Rs. 4,000/-
Total Cost	= Rs. 76,000/-
Total EMP Cost for the five years period is Rs. 3,80,000/-	
A+B =	
A. Project cost	= Rs. 79,18,000/-
B. EMP Cost	= Rs. 3,80,000/-
Total Project Cost (A+B)	= Rs. 82,98,000/-
<p>The applicant Indents to involve corporate Environment responsibilities (CER) activity like Water purifier Cot and Bed facility to the Palathurai Dispensary at 2.0% from the total project cost, the cost would be around Rs.1,66,000/-</p>	
Total Project cost	= Rs. 82,98,000/-
CER Cost (2%)	= Rs. 1,66,000/-
Total cost	= Rs. 84,64,000/-
<p>(The Total cost of the project including EMP Cost is Rupees eighty four lakh and sixty four thousand only).</p>	

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11.0 PROGRESSIVE QUARRY CLOSURE PLAN**11.1 Introduction:**

The Progressive Quarry Closure Plan for Rough stone and Gravel quarry lease applied area over an extent of 2.60.5 Hectares of patta lands in S.F.Nos. 1120/2 & 1121/2 of Bilichi Village, Coimbatore North Taluk, Coimbatore District, Tamil Nadu State has been prepared for **Tvl. Sri Rajalakshmi Samappa Building Materials Company**, having an office at No. 677/1A, Vellamadai, Coimbatore District, Tamil Nadu State – 641 110.

11.2 Present Land use pattern:Land Use Table – 17

Description	Present area in (ha)
Quarrying Pit	1.46.5
Dump	0.25.6
Infrastructure	Nil
Roads	0.02.0
Green Belt	Nil
Unutilized Area	0.86.4
Grand Total	2.60.5

11.3 Method of Mining:

Open cast Mechanized Mining is being carried out with 5.0 meter vertical bench with a bench width is not less than the bench height for Rough stone.

However, as far as the quarrying of Rough stone is concerned, observance of the provisions of Regulation 106 (2) (b) as above is seldom possible due to various inherent petro genetic factors coupled with mining difficulties. Hence it is proposed to obtain relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with the Regulation 106 (2) (b) of MMR-1961, under Mine Act – 1952.

11.4 Mineral Processing Operations:

The quarried out Rough stone will be transported by the 10/20tons capacity Tippers to the needy Customer. Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling, mild blasting and loading the Rough Stone by manually from pithead to the needy customers. Hence, no mineral processing involved within the area.

11.5 Reasons for closure:

As the mineral is not going to be exhausted during the proposed plan period no immediate closure is planned due to sufficient reserves are available to carry on the activities. Hence, the reason for closure will be discussed in the ensuing mining plan.

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11.6 Statutory obligations:

The applicant ensures to comply all the conditions were imposed before grant of quarry lease or before execution of lease deed and same will be maintained during the course of quarry operations.

11.7 Progressive quarry closure plan preparation:

Name and address of the Qualified Person who prepared the progressive closure plan and name and address of the executing agency who is involved in the Preparation of progressive quarry closure plan.

P. VISWANATHAN, M.Sc.,

Qualified Person

New No.17,

Advaitha Ashram Road,

Alagapuram, Salem-636 004.

Cell: 94433 56539, 94422 78601

The applicant will himself implement the closure plan; no outside agency will be involved.

11.8 Review of Implementation of Mining Plan including Progressive Closure Plan upto the Final Closure Plan:

The lease applied area having enormous potential of Rough stone and Gravel. The Rough stone mineral reserves are available for the entire life of quarry. The entire quarry area is an active. Hence, progressive quarry closure does not proposed at present. However, if any work done for progressive quarry closure plan during this plan period, it will be discuss in the next mining plan.

11.9 Closure Plan:**(i) Mined Out Land:**

At the end of mining plan period, about 2.55.5Ha of area will be quarried out. Land use at various stages is given in the table below.

Land Use Table – 18

Description	Present area in (ha)	Area at the end of Lease period (ha)
Quarrying Pit	1.46.5	2.12.0
Dump	0.25.6	Nil
Infrastructure	Nil	0.01.0
Roads	0.02.0	0.02.0
Green Belt	Nil	0.16.0
Unutilized Area	0.86.4	0.29.5
Grand Total	2.60.5	2.60.5

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(ii) Water quality management:

Following control measures will be adopted for controlling water pollution:-

- Construction of Garland drain with check dams / gully plugs at strategic places to arrest silt wash off from broken up area.
- Collection of surface run-off from broken up area in mine pits for settling and only properly settled excess water from mine pit will be discharged to nearby users. The storm water/ mine water will be used for dust suppression, greenbelt development, etc.
- Periodic analysis of mine pit water and ground water quality in nearby villages.
- The quarried out pit will be allowed to collect rain and seepage water which will act as a reservoir for storage. This water storage will enhance the static level and ground water recharge of nearby wells and it will be used for agriculture purpose to the nearby agriculture lands.
- Domestic sewage from site office & urinals/latrines provided in QL is discharged in septic tank followed by soak pits.

(iii) Air Quality Management:

The proposed mining method is not likely to produce much of dust and fugitive emissions to cause damage to ambient air quality of the area. Workers will be provided with personnel protective equipment like face-mask, earplug/ muffs.

For air pollution management at the progressive quarry closure plan, greenbelt will be developed to prevent and control air pollution.

(iv) Top Soil and Waste Management:

There is no topsoil and waste generated during the proposed plan period. The entire quarried out Rough stone and Gravel will be utilized (100%). Hence, waste management does not arise.

(v) Disposal of mining machinery:

All the Machineries will be engaged on rental basis. Hence, disposal or decommissioning of mining machinery does not arise.

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(vi) Safety & Security:

Safety measures will be implemented to prevent access in the excavation area an unauthorized persons as per Mine Act 1952, MMR 1961.

- Safety measures will be implemented as per Mine Act 1952, MMR 1961, and Mines Rules 1955.
- Provisions of MMR 1961 shall be strictly followed and all roads shall be wider than the height of the bench or equal to the height of the bench and have a gradient of not more than 1 in 16.
- The bench height will be 5.0m.
- Width of working bench will be kept about 5.0 m for ease of operations and provide sufficient room for the movement of equipments.
- Protective equipment like dust masks, ear-plugs/ muffs and other equipments shall be provided for use by the work persons.
- Notices giving warning to prevent inadvertent entry of persons shall be displayed at all conspicuous places and in particular near mine entries.
- Danger signs shall be displayed near the excavations and proper signal by siren alarm will be given to the public before blasting time to prevent accident.
- Security guards will be posted.
- In the event of temporary closer, approaches will be fenced off and notice displayed.

(vii) Disaster Management and Risk Assessment:

This should deal with action plan for high risk accidents like landslides, subsidence, flood, fire, seismic activities, tailing dam failures etc. and emergency plan proposed for quick evacuation, ameliorative measures to be taken etc. The capability of applicant to meet such eventualities and the assistance to be required from the local authorities should be described.

- The complete quarry operation will be carried out under the Management and control of experienced and qualified Mines Manager having Certificate of Competency to manage the mines granted by DGMS.
- All the provisions of Mines Act 1952, MMR 1961 and Mines Rules 1955, TNMMCR 1959 and other laws applicable to mine will be strictly complied with.
- During heavy rainfall the mining activities will be suspended.
- All persons in supervisory capacity will be provided with proper communication facilities.
- Competent persons will be provided FIRST AID kits which they will always carry.
- The quarried out benches, Greenbelt Development will be formed in all around the benches of the lease applied area.

(viii) Care and Maintenance during Temporary Discontinuance:

In case of any temporary discontinuance due to court order or due to statutory requirement or any other unforeseen circumstance following measures shall be taken for care, maintenance and monitoring of conditions.

- Notice of temporary discontinuance of work in mine shall be given to the DGMS as per the MMR 1961.
- All the mining machinery shall be shifted to a safe place.
- Entrance to the mine or part of the mine, to be discontinued shall be fenced off. Fencing shall be as per the circular 11/1959 from DGMS.
- Security Guards shall be posted for the safety and to prevent any unauthorized entry to the area.
- Carry out regular maintenance of the facilities/area detailed below in such a way as would have been done as if the mines were operation:
 - Mine roads and approach roads,
 - Fencing on approach roads,
 - Checking and maintenance of machines and equipment,
 - Drinking water arrangements,
 - Mine office, first aid stations etc.
- Competent persons shall inspect the area regularly.
- Air, water and other environmental monitoring shall be carried out as per CPCB and IBM Guideline.
- Care and upkeep of plantation shall be carried out on regular basis.
- Status of the working and status monitoring for re-opening of the mines shall be discussed daily.

In case of discontinuance due to any natural calamities/abnormal conditions, mining operation will be restarted as early as possible after completing rescue work, restoring safety and security, repairs of roads etc.

(ix) Economic Repercussion of Closure of Quarry and manpower Retrenchments:

The quarry lease is granted for a period of five years only. As per the production Programme envisaged, there will be no effect on the man power as the majority of persons belong to nearby villages and will have an option either to be available for employment for the next contract/ lease or do the agriculture in their fields.

31 DEC 2024

(x) Time Scheduling For Abandonment:

The lease applied area has enormous potential for continuance of operations even after the expiry of the lease period. The details of time schedule of all abandonment will be given at the time of final closure plan.

(xi) Abandonment Cost:

As at present mining is not going to be closed so abandonment cost could not be assessed. However based on the progressive quarry closure activities during the plan period, cost is assessed as given below:

Land Use Table – 19

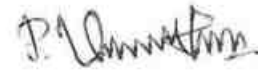
ACTIVITY	YEAR					RATE	AMOUNT (INR)
	I	II	III	IV	V		
Plantation under safety zone (In Nos.)	40	40	40	40	40	@100 Rs Per sapling	Rs.20,000/-
Plantation Cost	4,000	4,000	4,000	4,000	4,000		Rs.30,000/-
Plantation in quarried out bench and approach road (In Nos.)	60	60	60	60	60	@300 Rs Per Meter	Rs.2,25,000/-
Plantation Cost	6,000	6,000	6,000	6,000	6,000		Rs.1,50,000/-
Wire Fencing (In Mtrs) 750 Mtrs	2,25,000	-	-	-	-	@300 Rs Per Meter	Rs.1,50,000/-
Garland drain (In Mtrs) 500 Mtrs	1,50,000	-	-	-	-	@300 Rs Per Meter	Rs.1,50,000/-
TOTAL							Rs. 4,25,000/-

12 ANY OTHER DETAILS INTEND TO FURNISH BY THE APPLICANT

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This Mining plan for Rough stone (Charnockite) and Gravel is under Rules 41 & 42 as per the Amended under Tamil Nadu Minor Mineral Concession Rules, 1959. The provisions of the Mines Act, Rules and Regulations and orders made there under shall be complied within the quarrying operation, so that the safety of the mine, machinery and person will be well protected. Permission, relaxation or exemption wherever required for the safe and scientific quarrying of the deposit will be obtained from the Department of Mines Safety. Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the Concerned Department.

Prepared by

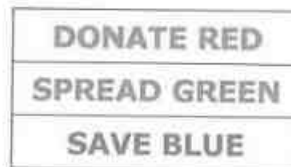


P. Viswanathan, M.Sc.,

Qualified person

Place: Salem

Date: 10.12.2021



This Mining Plan is Approved
subject to the conditions / stipulation
& indicated in the Mining Plan Approval
Letter No: 875/Mines/21 dt 31/12/21
office of the A.D, Geology & Mining Coimbatore

This Mining Plan is Approved based on the
incorporation of the particulars specified
in the letter of the commissioner of Geology
and Mining, Chennai ref No: 3863/LC/2012
Dated 19.11.2012 and subjected to further
fulfillment of the condition laid down under
Tamilnadu Minor Mineral Concession Rules 1959


ASSISTANT DIRECTOR
DEPARTMENT OF GEOLOGY & MINING
COIMBATORE DISTRICT.

31 DEC 2021

உதவி இயக்குநர் அலுவலகம்,
புவியியல் மற்றும் சுரங்கத்துறை,
மாவட்ட ஆட்சியர் அலுவலக வளாகம்,
கோயம்புத்தூர் - 18.

ந.க.எண்.875/கனிமம்/2021

நாள்: 02.12.2021

குறிப்பாணை

பொருள்: கனிமங்களும் குவாரிகளும் - கோயம்புத்தூர் மாவட்டம் - கோயம்புத்தூர் வடக்கு வட்டம் - பிளிச்சி கிராமம் - புல எண்கள். 1120/2-ல் 1.52.50 ஹெக்டேர் மற்றும் 1121/2-ல் 1.08.00 ஹெக்டேர் ஆக மொத்தம் 2.60.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரணகற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீயல்ஸ் என்ற நிறுவனத்திற்கு - குவாரி குத்தகை அனுமதி வழங்குவது - தொடர்பாக.

- பார்வை: 1. தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீயல்ஸ் கம்பெனி, 677/1A, வெள்ளமடை, கோயம்புத்தூர் மாவட்டம் என்ற நிறுவனத்தின் விண்ணப்பம் நாள் 12.07.2021.
2. இவ்வலுவலக கடிதம் இதே எண். நாள்: 13.07.2021.
3. வருவாய் கோட்டாட்சியர், கோயம்புத்தூர் வடக்கு அவர்களின் கடித ந.க.எண். 1784/2021/அ3 நாள் 08.10.2021.
4. உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கோயம்புத்தூர் அவர்களின் தணிக்கை அறிக்கை நாள்: 25.11.2021
5. இயக்குநர், புவியியல் மற்றும் சுரங்கத்துறை, சென்னை கடிதம் எண். 1870/எம்.எம்-1/2020 நாள்: 12.08.2020.

பார்வை 1-ல் கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், வெள்ளமடை, 677/1A என்ற முகவரியில் இயங்கி வரும் தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீயல்ஸ் என்ற நிறுவனத்தினர் கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், பிளிச்சி கிராமம், புல எண்கள். 1120/2-ல் 1.52.50 ஹெக்டேர் மற்றும் 1121/2-ல் 1.08.00 ஹெக்டேர் ஆக மொத்தம் 2.60.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரணகற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க குவாரி குத்தகை உரிமம் கோரி உரிய ஆவணங்களுடன் விண்ணப்பித்துள்ளார்.

மேற்படி மனு தொடர்பாக, கோயம்புத்தூர் வடக்கு வருவாய் கோட்டாட்சியர் மற்றும் கோயம்புத்தூர் புவியியல் மற்றும் சுரங்கத்துறை உதவி

புவியியலாளர் ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், வெள்ளமடை, 677/1A என்ற முகவரியில் இயங்கி வரும் தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீரியல்ஸ் என்ற நிறுவனத்திற்கு கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், பிளிச்சி கிராமம், புல எண்கள். 1120/2-ல் 1.52.50 ஹெக்டேர் மற்றும் 1121/2-ல் 1.08.00 ஹெக்டேர் ஆக மொத்தம் 2.60.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரணகற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க சில நிபந்தனைகளுடன் பரிந்துரை செய்துள்ளார்கள்.

அனுமதி கோரும் புல எண்கள். 1120/2 மற்றும் 1121/2 ஆகியவை பட்டா எண் 3450-ன் படி திரு.பழனிசாமி மகன் திரு.சித்தார்த்தாமெளலி மற்றும் திரு.ஞானசேகரன் மகன் ஸ்ரீகாந்த் ஆகியோர்கள் பெயரில் கூட்டுப்பட்டாவாக கிராம கணக்கில் தாக்கலாகியுள்ளது. மேற்படி புலங்களில் தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீரியல்ஸ் என்ற நிறுவனத்திற்கு குவாரி குத்தகை அனுமதி வழங்கும் நாளிலிருந்து பத்து ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க தங்களுக்கு எவ்வித ஆட்சேபணையும் இல்லை என பட்டாதாரர்கள் மேற்படி நிறுவனத்திற்கு சம்மத கடிதம் அளித்துள்ளார்கள். எனவே மேற்படி பூமியில் தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீரியல்ஸ் என்ற நிறுவனம் குவாரி குத்தகை உரிமம் பெற தகுதியுடையது ஆகும்.

எனவே, வருவாய் கோட்டாட்சியர், கோயம்புத்தூர் வடக்கு மற்றும் உதவி புவியியலாளர், புவியியல் மற்றும் சுரங்கத்துறை, கோயம்புத்தூர் ஆகியோரின் பரிந்துரைகளின் அடிப்படையில் கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், வெள்ளமடை, 677/1A என்ற முகவரியில் இயங்கி வரும் தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்டிங் மெட்ரீரியல்ஸ் என்ற நிறுவனத்திற்கு கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு வட்டம், பிளிச்சி கிராமம், புல எண்கள். 1120/2-ல் 1.52.50 ஹெக்டேர் மற்றும் 1121/2-ல் 1.08.00 ஹெக்டேர் ஆக மொத்தம் 2.60.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் 1959-ஆம் ஆண்டு தமிழ்நாடு சிறுகனிம சலுகை விதிகளில் விதி 19(1) மற்றும் 20-ன் படி குத்தகை ஒப்பந்த பத்திரம் நிறைவேற்றும் நாளிலிருந்து 5 (ஐந்து) ஆண்டுகளுக்கு சாதாரண கற்கள் மற்றும் கிராவல் மண் வெட்டியெடுக்க கீழ்க்கண்ட நிபந்தனைகளுக்குட்பட்டு குவாரி குத்தகை வழங்குவதற்குரிய நிலப்பரப்பாக (Precise Area Communication) கருதப்படுகிறது.

நிபந்தனைகள்

1. அருகிலுள்ள பட்டா நிலங்களுக்கும் மற்றும் பொது மக்களுக்கும், எவ்வித இடையூறும் இன்றி சாதாரண கல் மற்றும் கிராவல் குவாரி மேற்கொள்ள வேண்டும்.
2. அருகில் உள்ள பட்டா நிலத்திற்கு 7.5 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. குழந்தை தொழிலாளர்களை வேலைக்கு அமர்த்தல் கூடாது.

மேலும், தமிழ்நாடு சிறுகனிம சலுகை விதிகள்-1959 விதி எண். 41 மற்றும் 42-ன் படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வரைவு சுரங்க திட்டத்தினை 90 தினங்களுக்குள் சமர்ப்பிக்குமாறும், மாநில சுற்றுச்சூழல் தாக்க மதிப்பீட்டு அதிகார அமைப்பின் அனுமதியினை பெற்று சமர்ப்பிக்கவும் மனுதாரரை கேட்டுக் கொள்ளப்படுகிறது.

உதவி இயக்குநர்,
புவியியல் மற்றும் சுரங்கத்துறை
கோயம்புத்தூர்.

பெறுநர்:
தி/வா.ஸ்ரீ ராஜ லட்சுமி சாமப்பா பில்லிங்
மெட்ரீயல்ஸ் கம்பெனி,
677/1A, வெள்ளமடை,
கோயம்புத்தூர் மாலட்டம்

மாண்புமிகு

சென்னை மாநகராட்சி

ANNEXURE 5

வட்டம்

சென்னை மாநகராட்சி

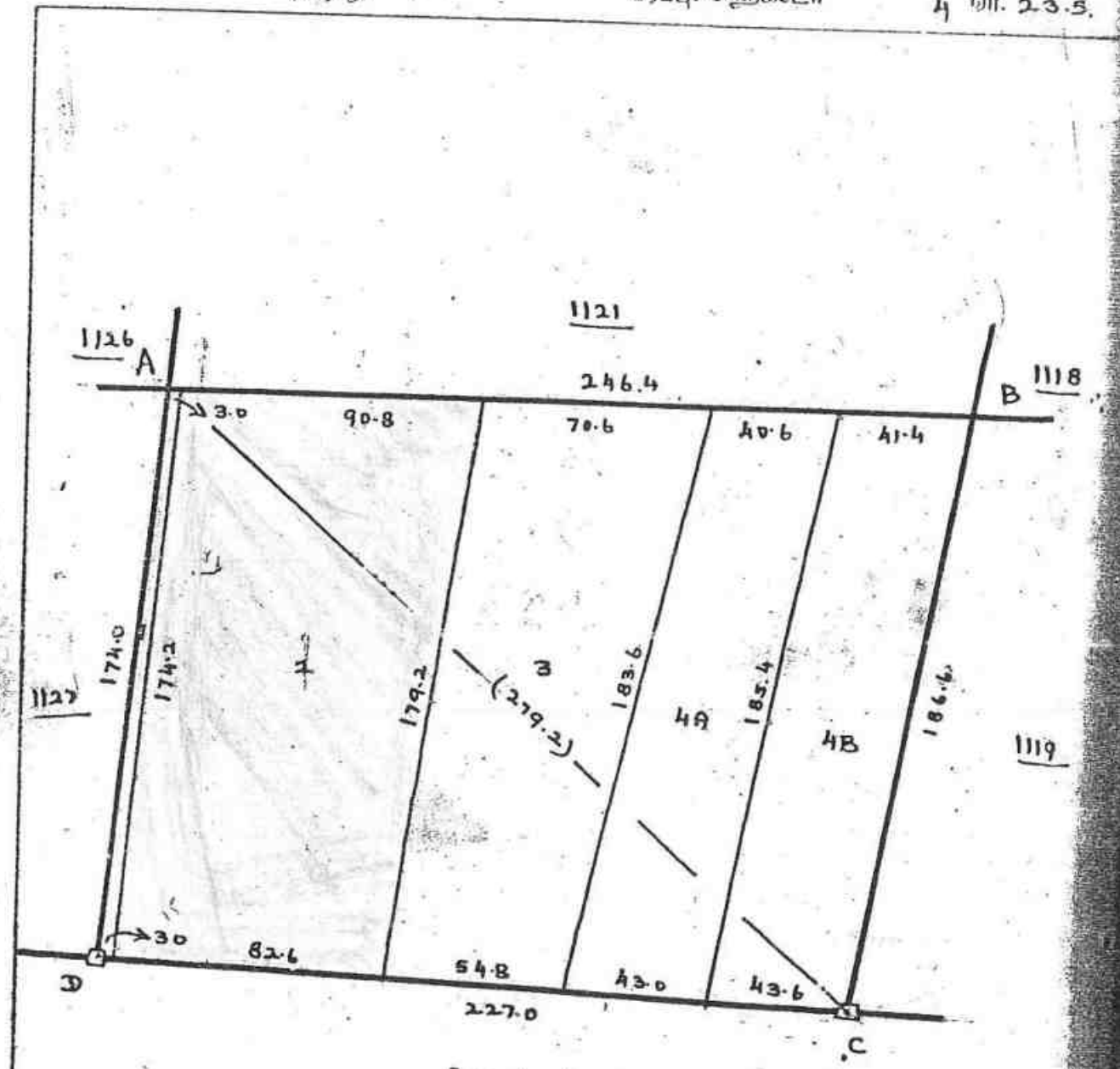
கிராமம்

பெயர்: 31 DEC 2021

புல எண்: 1120

பரப்பு: சென்னை

4 பார். 23.5.



சென்னை மாநகராட்சி

2 Engineer

Handwritten signature

28/7/2024

சென்னை மாநகராட்சி, 3, பிளாட் 01, சென்னை மாநகராட்சி (வட்டம்)

LEASE APPLIED AREA

சென்னை மாநகராட்சி

சென்னை மாநகராட்சி

2024

2/4/37

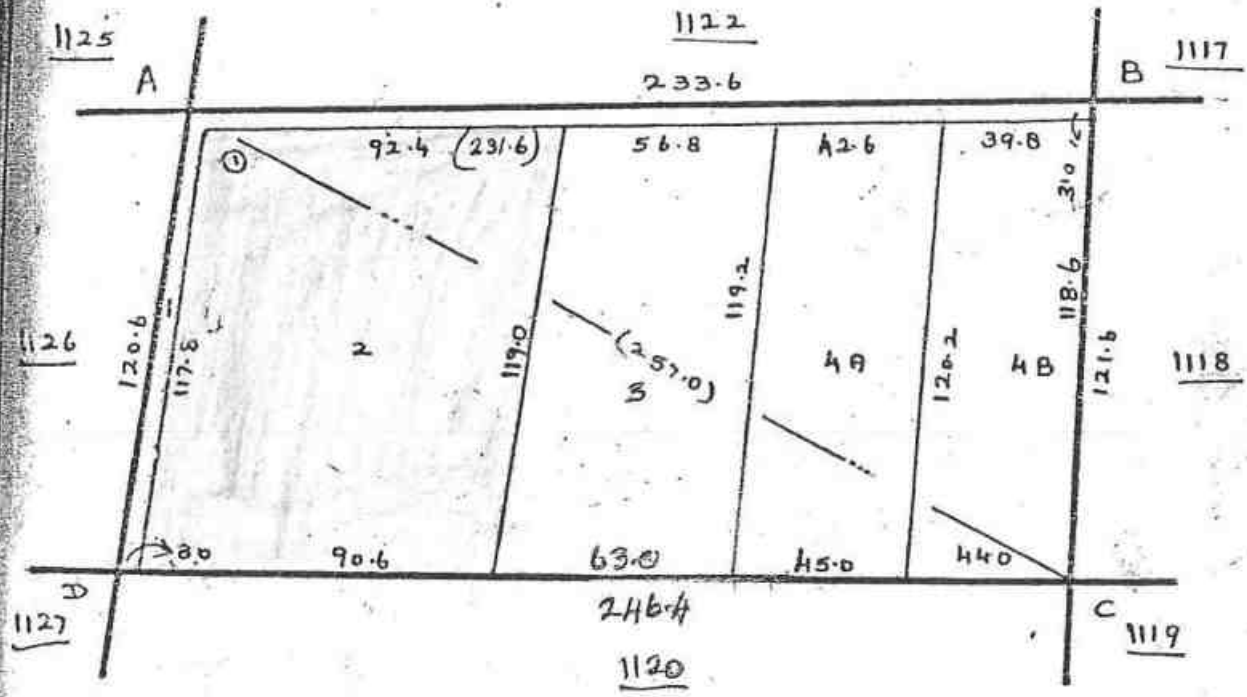
அளவு: 1:2000. கி.மீ

சென்னை மாநகராட்சி

15-4-87

പേരം പൂർണ്ണ
 പേരം പൂർണ്ണ
 പാലത്ത. 1121

31 DEC 2021
 2 ഞ. 85.5
 23



LEASE APPLIED AREA

- 2 ഞ. പൂർണ്ണ
 28/12/21

3, 1121.0

		(257.0)	
1	1.0	4.8	A

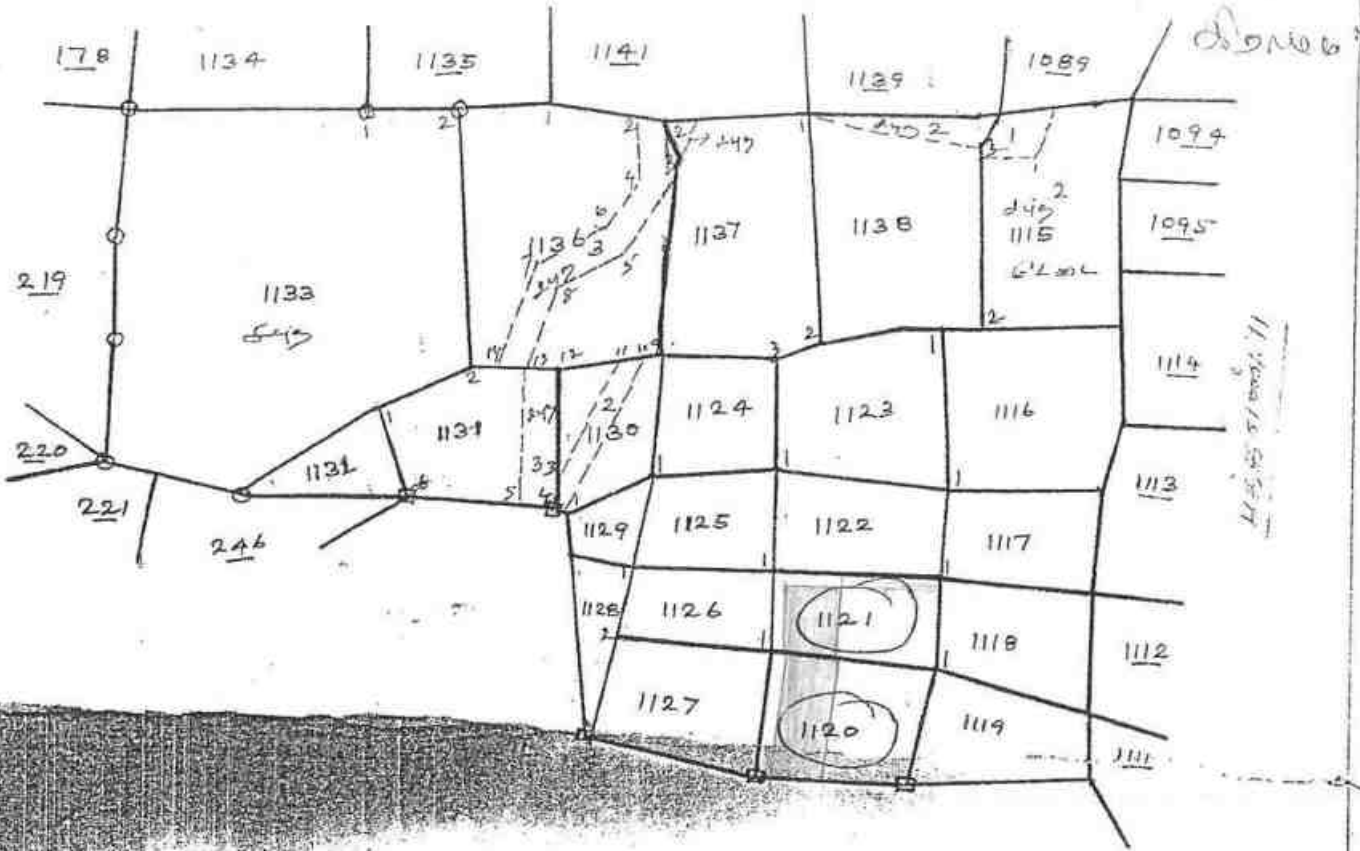
പേരം പൂർണ്ണ
 24/12

1: 2000. 10.10

15/4/21

சென்னை மாநகராட்சி
31 DEC 2021
பெரியகுடி ஊராட்சி ஒன்றியம்

1125 of 2001: 13



VELLAMADAI: No: 6

LEASE APPLIED AREA 

சென்னை மாநகராட்சி
31/12/21
கிராம நிர்வாக அலுவலர்,
3, பிளாக்கி (கிழக்கு)
கோவை (வடக்கு)

A. கஜனி -
B. கஜனி - 30

சுமதி சீனி
17/4/2001

31 DEC 2021



தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கோயம்புத்தூர்

வட்டம் : கோயம்புத்தூர் வடக்கு

வருவாய் கிராமம் : பிளிச்சி (கி-மே)

பட்டா எண் : 3450

உரிமையாளர்கள் பெயர்

1. பழனிசாமி மகன் சித்தார்த்தாமௌலி
2. ஞானசேகரன் மகன் ஸ்ரீகாந்த்

புல எண்	உட்பிரிவு	புன்செய்		நன்செய்		மற்றவை		குறிப்புரைகள்
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை	
		ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	ஹெக் - ஏர்	ரூ - பை	
1120	2	1 - 52.50	1.88	--	--	--	--	2019/0103 /12/182036--- -- 14-07-2019
1121	2	1 - 8.00	1.34	--	--	--	--	2019/0103 /12/182036--- -- 14-07-2019
		2 - 60.50	3.22					

குறிப்பு2 :

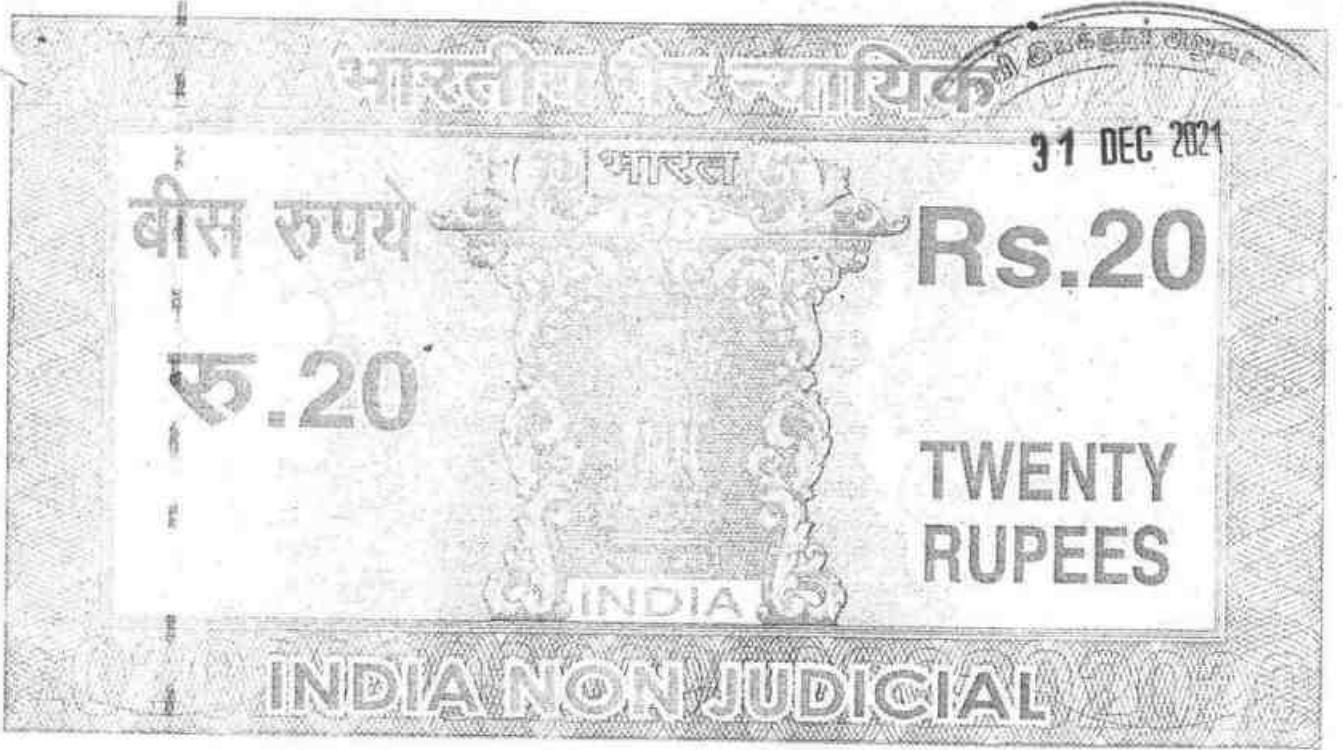


- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <https://eservices.tn.gov.in> என்ற இணைய தளத்தில் 12/02/005/03450/30522 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 21-06-2021 அன்று 09:16:00 AM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

1	2	3	4	5	7	7	8	9	10	11	12	
1	1121-1	ர	4	...	8-4	6	1 24	0 08.0	0 10	1626	வெ. ரங்கசாமி கவுண்டர் (1). வெ. ரங்கசாமி (2). பொ. சின்னசாமி கவுண்டர் (3).	
2	-2	ர	4	...	8-4	6	1 24	1 08.0	1 34	1006	பெ. ராமண்ண கவுண்டர்.	
3	-3	ர	4	...	8-4	6	1 24	0 72.0	0 89	897	வெ. ரங்கசாமி கவுண்டர்.	
4A	-4A	ர	4	...	8-4	6	1 24	0 49.0	0 60	748	பொ. மாரப்ப கவுண்டர்.	
4B	-4B	ர	4	...	8-4	6	1 24	0 48.5	0 60	309	பொ. சின்ன சாமி கவுண்டர்.	
								2 85.5	3 53			
1	1122-1	ர	4	...	8-4	6	1 24	0 03.0	0 06	1777	வெ. ரங்கசாமி கவுண்டர் மற்றும் தாங்கு பேர்களும். *	
2	-2	ர	4	...	8-4	6	1 24	0 27.5	0 34	1007	பெ. ராமண்ண கவுண்டர்.	
3	-3	ர	4	...	8-4	6	1 24	0 17.0	0 21	1777	வெ. ரங்கசாமி கவுண்டர் மற்றும் தாங்கு பேர்களும். *	
4	-4	ர	4	...	8-4	6	1 24	0 27.5	0 34	1006	பெ. ராமண்ண கவுண்டர்.	
5	-5	ர	4	...	8-4	6	1 24	0 29.5	0 37	309	பொ. சின்ன சாமி கவுண்டர்.	
6	-6	ர	4	...	8-4	6	1 24	0 52.0	0 64	310	ச. சின்ன சாமி கவுண்டர்.	
7	-7	ர	4	...	8-4	6	1 24	0 20.5	0 26	748	பொ. மாரப்ப கவுண்டர்.	
8	-8	ர	4	...	8-4	6	1 24	0 31.0	0 39	1006	பெ. ராமண்ண கவுண்டர்.	
9	-9	ர	4	...	8-4	6	1 24	0 24.5	0 30	897	வெ. ரங்கசாமி கவுண்டர்.	
								2 32.5	2 91			

* விவரப்பட்டியலைப் பார்க்கவும்.

24/12/2021
 சி. ராமசுந்தரன்
 3, பிளாட் (பெரிய)
 கோவை (வடக்கு)



8-7-2021

TAMIL NADU

T. RADHAMANI
STAMP VENDOR

L.No: 8936/B1/2017 dt. 11.01.2018

Shop No.16, Old Post Office Road,

813, UMS Building,
Coimbatore - 641 018.

கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர்

கோவை

சம்மத கடிதம்

2021 ஆம் வருடம் ஜூலை மாதம் ஆம் தேதி கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு தாலுக்கா, கோயம்புத்தூர் - 641 110, வெள்ளமடை, கதவு எண். 677/1A முகவரியில் இயங்கி வரும் "ஸ்ரீ ராஜலட்சுமி சாமப்பா பில்டிங் மெட்ரியல்ஸ்" என்ற பெயரில் இயங்கி வரும் கூட்டு கம்பெனிக்கு, கோயம்புத்தூர் மாவட்டம், காரமடை கிராமம், கண்ணார்பாளையம், கதவு எண். 2/246 முகவரியில் வசித்து வரும் திரு. பழனிச்சாமி அவர்கள் குமாரர் திரு. சித்தார்த்தா மொளலி (1) மேற்படி கதவு எண். 2/241 முகவரியில் வசித்து வரும் திரு. ஞானசேகரன் அவர்கள் குமாரர் திரு. சபுரிசாந்த் (2) ஆகிய எங்களுக்கு கோயம்புத்தூர் மாவட்டம், கோயம்புத்தூர் வடக்கு தாலுக்கா, பிளிச்சி கிராமம், பட்டா எண். 3450-ன் படி க.ச.1120/2 நெ. காலையில் பாத்தியப்பட்ட 1.52.50 பு.ஹெக்டேர் பரப்பு மற்றும் 1121/2 நெ. காலையில் பாத்தியப்பட்ட 1.08.00 பு.ஹெக்டேர் பரப்புள்ள பூமியானது எங்கள் இருவருக்கும் கூட்டாகப் பாத்தியப்பட்டது. மேற்படி பூமியில் சாதாரண கற்கள் மற்றும் கிராவல் மண்வெட்டியெடுக்க "ஸ்ரீ ராஜலட்சுமி சாமப்பா பில்டிங் மெட்ரியல்ஸ்" கம்பெனிக்கு அனுமதி அளிக்கும் நாளிலிருந்து பத்து (10) ஆண்டுகளுக்கு மனப்பூர்வமாக சம்மதிக்கிறோம் என இதன்மூலம் உறுதி கூறுகிறோம்.

1. *[Signature]*

2. *[Signature]*



தமிழ்நாடு சமீலநாடு TAMILNADU ரூ.100/- அக்ரயவக
 22-4-2019 Sri Rajalakshmi Samappa A. சக்யவதி BF 716796
 Building Materials Company முத்திரைகளுள் மேற்படிவாசலாள்
 S.F.No. 677/1, Vellaradai 2-D, கோ. அழகேஸ்வரி சாலை
 Coimbatore - 641 110 C.B. அபிவிவகி
 SRI RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY
 கோ. அழகேஸ்வரி - 641 301
 உரிமை எண்: 7323/B1/2008/16

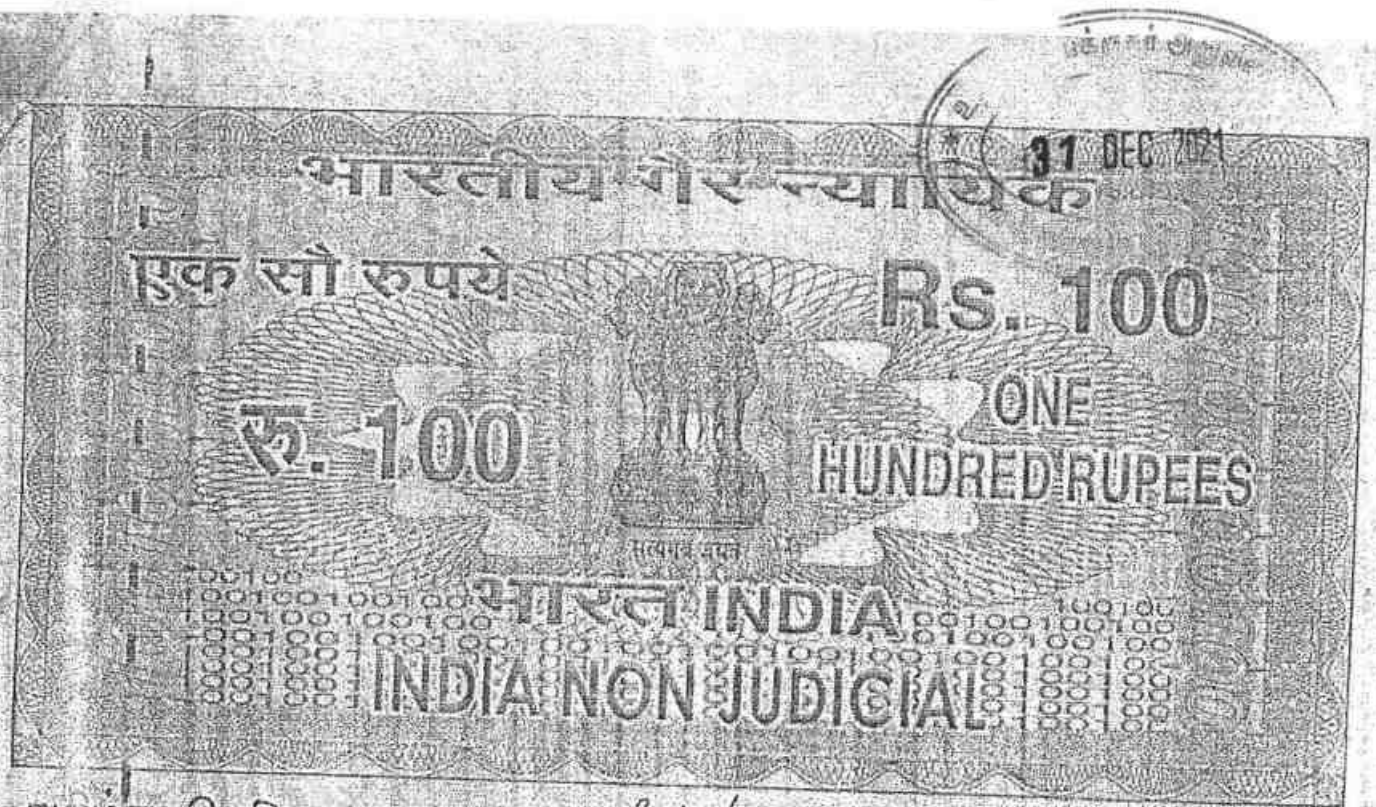
PARTNERSHIP DEED

This Deed of Partnership is entered into this 22th day of April:2019. Between

1. Mr. S.GNANASEKARAN, S/O.SAMAPPA GOWDER, aged about 55 years
 Residing at No: 2/241, KANNARPALAYAM, KARAMADAI-641 104.
 (HEREINAFTER CALLED THE PARTY OF THE FIRST PART)
2. Mr. S.PALANISAMY, S/O, SAMAPPA GOWDER, aged about 55
 years Residing at No: 2/246, KANNARPALAYAM,
 KARAMADAI-641 104.
 (HEREINAFTER CALLED THE PARTY OF THE SECOND PART)

1. 
 2. 

S. N. Rajeswari
 H. K. Mahalingam



திருநாடு தமில்நாடு TAMILNADU ரூ.100/- A சத்யவதி BF 716797
2-4-2019 Sri Rajalakshmi Samappa A. சத்யவதி

Building Materials Company முத்திரைத்தாள் விற்பனையாளர்
S.F.No. 677/1, vellamadai 2-D, கோஆர்சோடிவ் காலனி
Coimbatore - 641 110 E.B. அரெஸ் வீதி
மேட்டுபாளையம்-641 301
உரியப் எண்: 7323/B1/2008/16

3. Mrs. M.RAJESWARI, D/O MATHAPPA GOUNDER, aged about 64 years Residing at No: 10/19, VACHINAMPALAYAM, SIRUMUGAI-641 302.

(HEREINAFTER CALLED THE PARTY OF THE THIRD PART)

4. Mrs.P.MAHESWARI, D/O, PALANISAMY, aged about 37 Years Residing at No: 6/224, MONGAMPALAYAM, THERAMPALAYAM- 641 697.

(HEREINAFTER CALLED THE PARTY OF THE FOURTH PART)

1.

2.

3. N. Rajalakshmi

4. K. Maheswari

भारतीय नैर न्यायिक 31 DEC 2021

एक सौ रुपये

Rs. 100

₹. 100

ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA INDIA NON JUDICIAL

திருச்சாலை தமில்நாடு TAMILNADU ரூ.100/- A சத்யவதி BF 716798
24-2-2019 Sri Rajalakshmi Samappa A. சத்யவதி

Building Materials Company முத்திரைத்தாள் விற்பனைபுரம்
S.F.No. 677/1, Vellamadai 2-D, கோ ஆப்பிரைவ் காலனி
Coimbatore - 641110 E.B. அபிஸ் வதி
மேட்டுபாளையம்-641301
உரிமம் எண்: 7323/B1/2008/18

WHERE AS the above parties have agreed to form a partnership from 22nd day of April - 2019 and under the name and style

"SRI RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY"

AND WHERE AS the parties mutually agreed to enter into partnership on the terms and Condition

TERMS AND CONDITIONS:

1. NAME OF THE FIRM:

The Name of the firm shall be "SRI RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY"

2. REGISTERED OFFICE OF THE FIRM:

The registered office of the firm shall be kept at S.F.No: 677/1, VELLAMADAI, COIMBATORE, TAMILNADU- 641 110.

The Partners may by mutual consent change the registered office of the firm according to their convenience.

1. [Signature]

2. [Signature]

3. N. Rajalakshmi

4. K. Mahalingam

31 DEC 2021

3. OBJECT OF THE FIRM:

The object of the firm is to carry on the business in Trading in all kinds of Building Materials, Production and Sales. They may commence any other business mutually agreed between the partners from time to time.

4. DURATION OF THE FIRM:

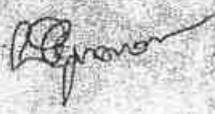
The duration of the firm shall be "AT WILL"

5. CAPITAL OF THE FIRM:

The capital of the firm shall be Rs.1,00,00,000/- (Rupees One Crore only) which shall be contributed by the partners under.

S.NO	NAME OF THE PARTNER	CAPITAL INVESTMENT
1.	S.GNANASEKARAN	Rs. 30, 00,000/-
2.	S.PALANISAMY	Rs. 30, 00,000/-
3.	M.RAJESHWARI	Rs. 30, 00,000/-
4.	P.MAHESWARI	Rs. 10, 00,000/-
	TOTAL	Rs. 1,00,00,000/-

If any further capital over and above these contributed capital be considered necessary by the partners, the same shall be the partners in the same ratio in which they contributed originally

1. 

2. 

3. N. Rajeswari

4. K. Maheswari

(4)

31 DEC 2021

9. MANAGING PARTNERS AND WORKING PARTNERS AND THEIR REMUNERATION:

The First Part of the Partner is Managing Partner and All partners have agreed to working partners actively devote their time and attention to the business of the partnership, it is hereby agreed that in consideration of the party of the all Part actively devoting their time and attention to the business of partnership they shall be entitled to draw monthly salary and remuneration as under. The monthly remuneration payable to each of partners for the each accounting year in the following the

(a)	(b)
In respect of the first Rs. 9, 00,000/- of the Profit or in the Case of loss	In respect of Balance Profit
Rs. 12,500/- Each	
Whichever is more	
%	%

1.	S.GNANASEKARAN	27	18
2.	S.PALANISAMY	27	18
3.	M.RAJESHWARI	27	18
4.	P.MAHESWARI	9	6
	TOTAL	90	60

(6)

1. *S. Gnanasekaran*

2. *S. Palanisamy*

3. *N. Rajeswari*

4. *P. Maheswari*

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ii) The partners shall be entitled to increase the above remuneration and may agree to pay remuneration to other partner or partners. The parties I etc may also agree to revise the calculating the above remuneration and decide to pay salary and grant the benefit of the house rent allowance, rent free quarters, motor car or conveyance allowance, medical expenses accident and / or life insurance policy premium, Provident Fund, Gratuity, Bonus, Commission on sale / gross receipts and / or other benefits to the above and / or the other partners either on monthly or yearly basis as they may agree upon.

10. SHARE OF PROFIT / LOSS:

The Net Profit of the partnership business as per the accounts maintained by the partnership including rent / Salaries and other establishment expenses as well as interest and remuneration payable to the partners in accordance with this deed of partnership or any supplementary deed as may be executed by the partners shall be divided and distributed among the partners following ratio.

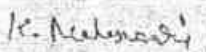
1.	S.GNANASEKARAN	30%
2.	S.PALANISAMY	30%
3.	M.RAJESHWARI	30%
4.	P.MAHESWARI	10%
	TOTAL	100 %

(7)

1. 

2. 

3. 

4. 

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16. PARTNERS INDIVIDUAL LIABILITY:

The firm shall in no way be liable to the individual debts, if any existing or future of the partners. Each of the partners shall punctually pay and satisfy all the present and future private debts and engagement and indemnify the other of them and his / her representative and the properties and assets of the partnership there of and from all actions, Proceedings, damages, costs, charges and expenses on account thereof.

17. DISPUTE OF THE FIRM:



In case any dispute arises between the partners the same shall be settling by referring the dispute to any third person agreeable to all the partners.

18. PARTNERSHIP ACT:

The provision of the Indian Partnership Act 1932, in so far as they are specifically mentioned here shall apply to the firm.

IN WITNESS to agrceeing the above terms and conditions of Partnership, we the partners Mentioned above do set our hands below in that presence of witnesses mentioned therein

WITNESSES

- | | |
|---|--|
| 1. S. Kumar (S. KOMARESAN) S/o. M. Subbiahyan
6/224 - Mongam Palayam, Tharamlabayan (P.O)
641617 | X. 
(S. GNANASEKARAN)
1st Part of the partner |
| B. Kalai (B. Kalanmai)
2. S/o. S. Bujingawadar 5/5B, Samivaram
Palayam, Karamadai - 641104 | X. 
(S. PALANISAMY)
2nd Part of the partner |
| 3. A. Ashok
S/o. E. Chinnadurai, 6/118A, Mongum Palayam,
Tharam Palayam (P.O), Pugalur (V.O) - 641605. | X. N. Rajeswari
(M. RAJESHWARI)
3rd Part of the Partner |
| 4. J. J. (J. J. RAVI)
S/o. N. Jaganathan, 30, A, Arcuninath Avenue,
Kannur Palayam, Karamadai - 641104. | X. K. Maheswari
(P. MAHESHWARI)
4th Part of the Partner |

SRI RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY

31 DEC 2021

1 1/2" Metal, 1/2" Jally, 3/4" Jally, Chips, M.Sand

SF.No 677/1A Vellamadai, Coimbatore - 641 110

Email : srsbc2019@gmail.com

Date : 3.7.2021

திருவாரூர் மீ ராஜலக்ஷ்மி சமப்பா கட்டிடப் பொருள் நிறுவனம்
கும்பளாபுரம் திருவாரூர் கட்டிடம் 3-7-2021 அன்று
கும்பளாபுரம் அலுவலகம் மறுபரிசீலனை செய்து திருவாரூர்
கிள்க்குள் சீர்திருத்தம் தீர்மானம் செய்துள்ளது.

திருவாரூர் மீ ராஜலக்ஷ்மி கட்டிடப் பொருள் நிறுவனம்
கும்பளாபுரம் அலுவலகம் சிறப்புக் குழுவிடம் திருவாரூர் கிள்க்குள்
கேள்வியும் விண்ணப்பங்கள் மற்றும் திருவாரூர் கிள்க்குள்
கும்பளாபுரம் இடம் அதிகாரப்படுத்தும் கும்பளாபுரம்
மறுபரிசீலனை செய்து, ச-சுதான சீர்திருத்தம் தீர்மானம்
செய்து அதிகாரம் வழங்கப்படுகிறது.



ATTESTED

S.M. Prabhakaran
12/07/21
S.M. PRABHAKARAN, B.A., B.L.,
ADVOCATE & NOTARY PUBLIC
(GOVT. OF INDIA) Exp. No. 1849/92
28, REVATHY BUILDING
GOPALAPURAM 2ND STREET,
COIMBATORE - 641 018.
Cell : 96961 31171

மறுபரிசீலனை.

- SWS 1. [Signature]
- SWS 2. [Signature]
- SWS 3. N. Rajeswari
- SWS 4. K. Maheswari.

சர்க்கார் இலுவல்

31 DEC 2021



இந்திய அரசாங்கம்
Government of India



குமாரசேகரன் என்
Gnanasekaran S

பிறந்த நாள் - DOB 04/02/1952
ஆண்கள் - Male



4171 8521 8213

சாதாரண மனிதனின் அதிகாரம்



பெரிய இந்திய அரசாங்கம்
Unique Identification Authority of India

முகவரி: சமீபப் பஞ்சாயத்து
சமீபப்பாளையம், சமீபப்பாளையம்
காமாடா, காமாடா மாவட்டம், கோயம்புத்தூர்
கோயம்புத்தூர் நகரம் 641104

Address: S/O
Samappagowder, 2/241,
KANNARPALAYAM,
KARAMADAI,
Chikkampalayam,
Karamadai Coimbatore,
Tamil Nadu, 641104

4171 8521 8213

1947
1200 300 1917

help@uidai.gov.in

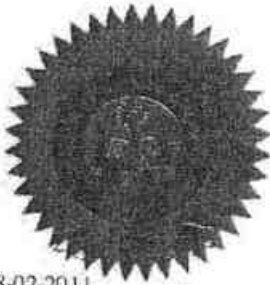
www.uidai.gov.in



அறிவியல் புலம்
FACULTY OF SCIENCE

பெரியார் பலகலைக்கழக ஆட்சிக்குழு 2010 ஆம் ஆண்டு ஏப்ரல் மாதம்
நடந்த பயன்பாட்டுப்புவிியமைப்பியல் தேர்வில்
அரசு கலைக் கல்லூரி, சேலம் - 636 007 (தன்னாட்சி) பயின்ற
P விஸ்வநாதன் என்பவர்
முதல் வகுப்பு A++ தரத்தில் தேர்ச்சி பெற்றார் என்று தக்க
தேர்வாளர்கள் சான்றளித்தபடி அறிவியல் நிறைஞர் என்னும்
பட்டத்தை அவருக்குப் பலகலைக்கழக இலச்சினையுடன் வழங்குகிறது.

*The Syndicate of the Periyar University hereby makes known
that VISWANATHAN P has been
admitted to the DEGREE OF MASTER OF SCIENCE in
APPLIED GEOLOGY
he/she having been certified by duly appointed Examiners to be qualified
to receive the same and was placed in the FIRST CLASS
WITH A++ GRADE at the Examination held in APR-2010 through
GOVERNMENT ARTS COLLEGE, SALEM - 636 007 (AUTONOMOUS).*



Given under the seal of this university

[Handwritten signature]

நாள்
Dated 28-02-2011
சேலம் 636011, தமிழ்நாடு, இந்தியா.
Salem 636011, Tamil Nadu, India.

பதிவாளர்
Registrar

துணைவேந்தர்
Vice-Chancellor

TIN. No. : 3312 2703755
C.S.T. No. : 880783 / 29.11.2005
Area Code : 142



ANNEXURE - 711

Ph. Mines : 0427 - 2403645

Fact : 0427 - 2400046

31 DEC 2021

SUDHARSHAAN MINING CORPORATION

Mfrs : Dead Burnt Magnesite, Lightly Calcined Magnesite, Dunite Chips & Powder.
S.F. No. 77, Kuduvampatti Road, Vinayagampatti, SALEM - 636 008.

Date : 28.12.2015.....

EXPERIENCE CERTIFICATE

This is to certify that **Shri.P.Viswanathan, S/o. P.Paramasivam, Geologist**, has worked in our Magnesite Mines from **13.09.2010 to 25.11.2015** as our company Geologist. During his service he used to maintain all records and returns submitted to Government Departments.

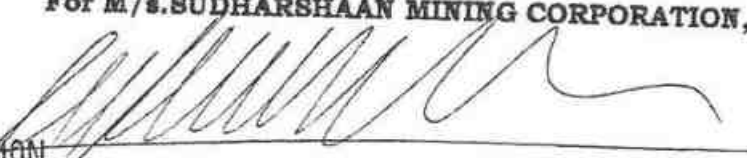
His nature of work in the mines was to show the plan of working and demarcate Magnesite reserve areas. He was looking after production of Magnesite and was maintaining quality of the Mineral as per the specifications given by the buyers.

During his tenor of his service he was very sincere and prompt in his duties.

I wish him the best of luck in all his future endeavours.

For M/s.SUDHARSHAAN MINING CORPORATION,

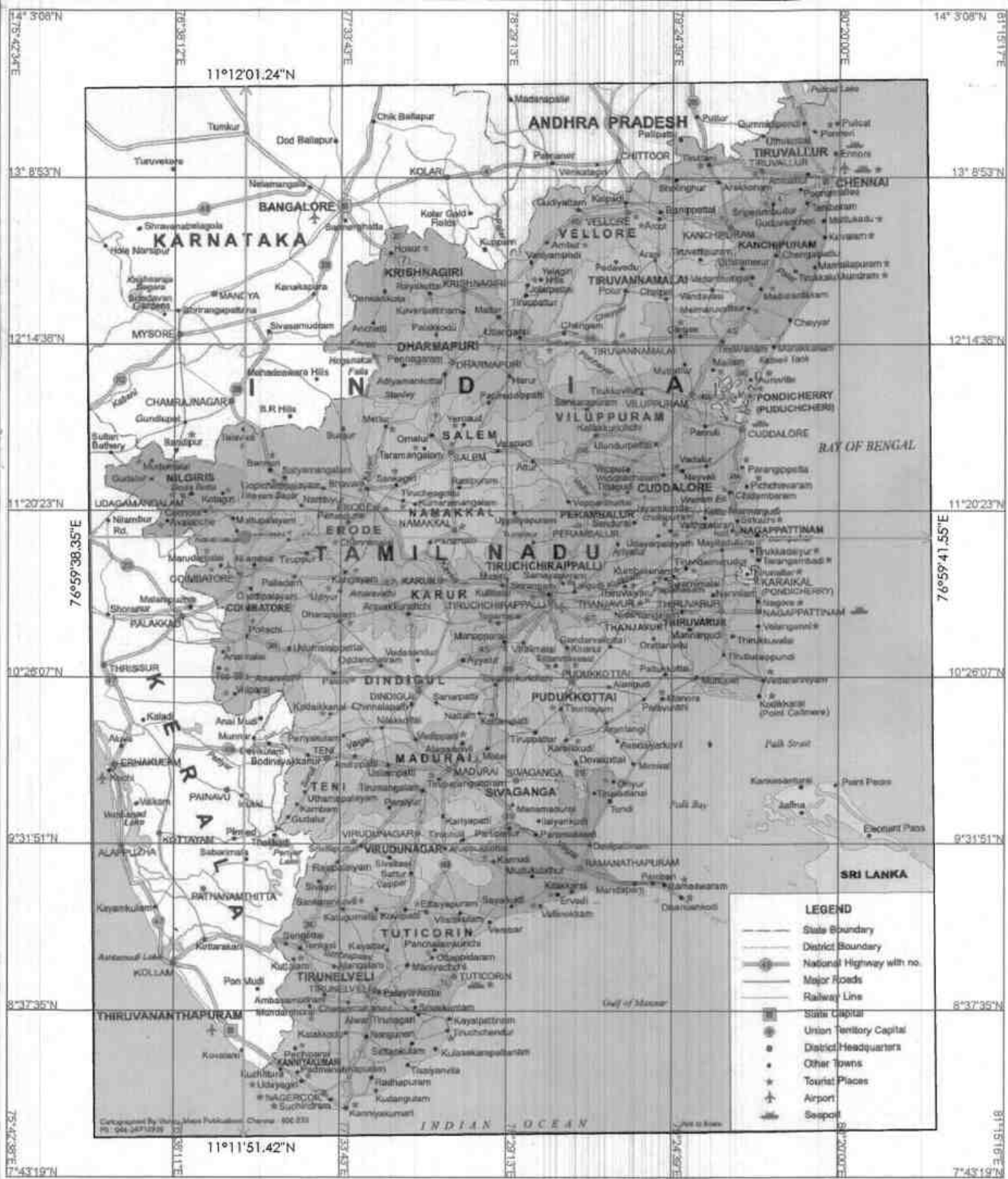
SUDHARSHAAN MINING CORPORATION
SF-77, KUDUVAMPATTI ROAD,
SALEM - 636 008. Tamilnadu.


G.PASUPATHY,

Proprietor

28 Dec 2015

Resi : "Garuda" 14/315, Kaliyapillai Garden IInd Cross, Fairlands, Salem - 636 004. Tamilnadu.



INDEX

Q.L.APPLIED AREA : ●

TOPO SHEET NO. : 58 - A/16

LATITUDE : 11°11'51.42"N to 11°12'01.24"N
 LONGITUDE : 76°59'38.35"E to 76°59'41.55"E

APPLICANT : *[Signature]*
 Tvl. Sri. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY,
 No. 677/ 1A, VELLAMADAI,
 COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:
 S.F.NO's : 1120/ 2 & 1121/ 2.
 EXTENT : 2.60.5 Ha.
 VILLAGE : BILICHI,
 TALUK : COIMBATORE NORTH,
 DISTRICT : COIMBATORE,
 STATE : TAMILNADU.

PLATE NO - I

DATE OF SURVEY : 08.12.2021

LOCATION PLAN

SCALE: 1:24,00,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
 PLATE IS TRUE AND CORRECT TO THE BEST OF MY
 KNOWLEDGE BASED UPON THE LEASE MAP
 AUTHENTICATED BY STATE GOVERNMENT

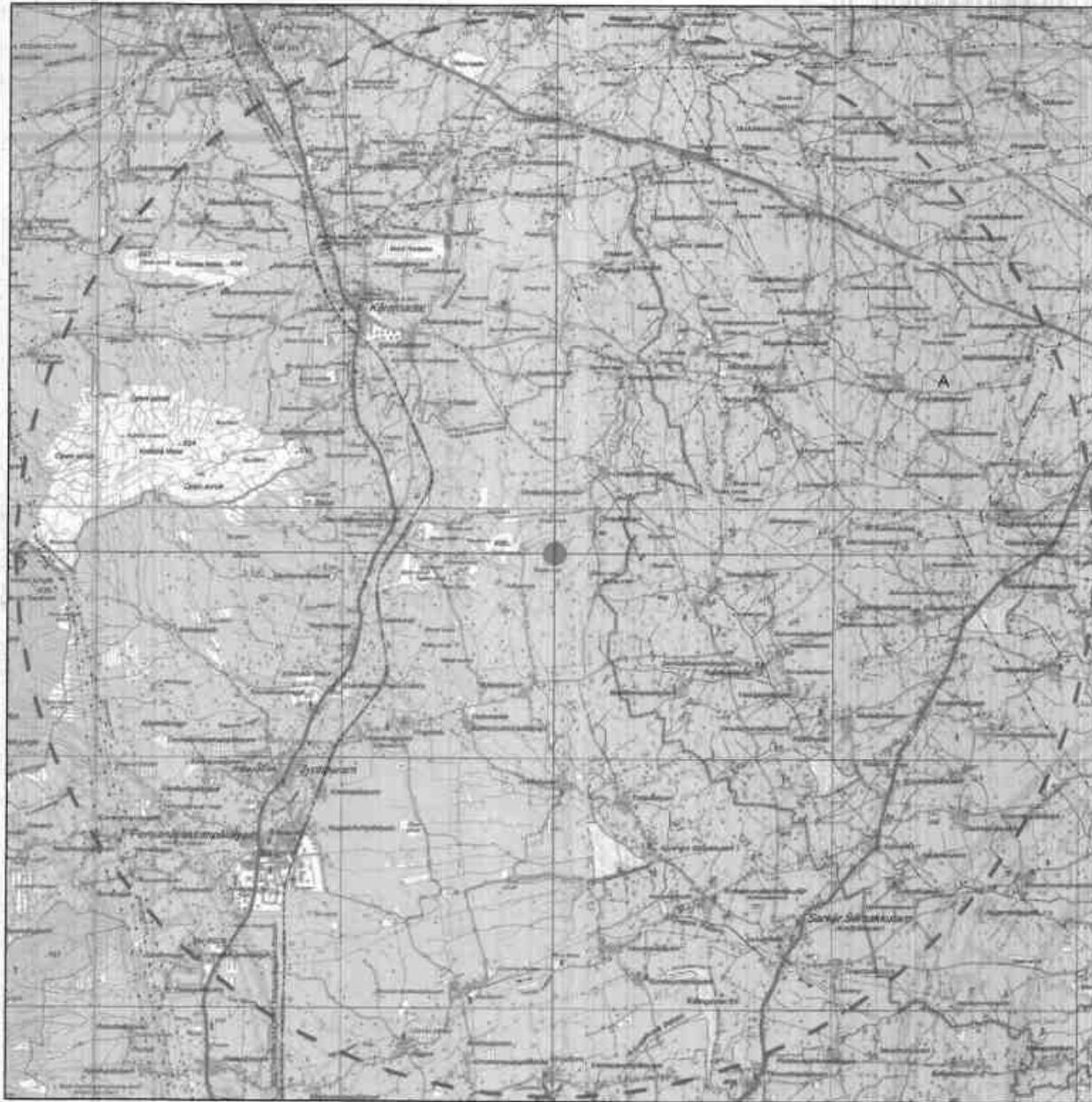
[Signature]
 P.VISWANATHAN M.Sc.,
 QUALIFIED PERSON

- LEGEND**
- State Boundary
 - District Boundary
 - National Highway with no.
 - Major Roads
 - Railway Line
 - State Capital
 - Union Territory Capital
 - District Headquarters
 - Other Towns
 - Tourist Places
 - Airport
 - Seaport

Copyrighted by Survey Maps Publications
 No. 966-2473228



11° 17' 26.62"N



76° 54' 08.81"E

77° 05' 11.11"E

11° 06' 26.04"N

- Express highway: with toll; with bridge, with distance stone.....
- Roads metalled: according to importance.....
- Roads, double carriageway, according to importance.....
- Unmetalled road. Cart-track. Pack-track with pass. Foot-path.....
- Streams: with track in bed; undefined. Canal.....
- Dams: masonry or rock-filled; earthwork. Weir.....
- River; dry with water channel; with island & rocks. Tidal river.....
- Submerged rocks. Shoal. Swamp. Reeds.....
- Wells: lined; unlined. Tubewell. Spring. Tanks: perennial; dry.....
- Embankments: road or rail; tank. Broken ground.....
- Railways, broad gauge: double: single with station; under constrm.....
- Railways, other gauges: double; single with distance stone; do.....
- Mineral line or tramway. Kin. Cutting with tunnel.....
- Contours with sub-features. Rocky slopes. Cliffs.....
- Sand features: (1)flat. (2)sand-hills(permanent). (3)dunes(shifting).....
- Towns or Villages: inhabited; deserted. Fort.....
- Huts: permanent; temporary. Tower. Antiquities.....
- Temple. Chhatri. Church. Mosque. Idgah. Tomb. Graves.....
- Lighthouse. Lightship. Buoys: lighted; unlighted. Anchorage.....
- Mine. Vine on trellis. Grass. Scrub.....
- Palms: palmyra; other. Plantain. Conifer. Bamboo. Other trees.....
- Areas: cultivated; Wooded. Surveyed trees.....
- Boundary, international.....
- Boundary, state: demarcated; undemarcated.....
- Boundary, district, subdivision; tahsil or taluk; forest.....
- Boundary pillars: surveyed; unlocated.....
- Heights, triangulated: station: point; approximate.....
- Bench-mark: geodetic; tertiary; cana.....
- Post office. Telegraph office. Overhead tank.....
- Rest house or inspection bungalow. Circuit house. Police station....
- Camping Ground. Forest: reserved; protected.....
- Spaces names: administrative; locality or tribal.....
- Hospital. Dispensary. Veterinary: Hospital/Dispensary.....
- Aerodrome. Helipad. Tourist site.....
- Powerline: with pylons surveyed; with poles unsurveyed.....

31 DEC 2021



APPLICANT :

Tvl. Sri. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY,
No. 677/ 1A, VELLAMADAI,
COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:

S.F.NO's : 1120/ 2 & 1121/ 2.
EXTENT : 2.60.5 Ha.
VILLAGE : BILICHI,
TALUK : COIMBATORE NORTH,
DISTRICT : COIMBATORE,
STATE : TAMILNADU.

PLATE NO - I-A

DATE OF SURVEY : 08.12.2021

TOPO SKETCH OF QUARRY LEASE APPLIED AREA FOR 10Km RADIUS

SCALE. 1:1,00,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

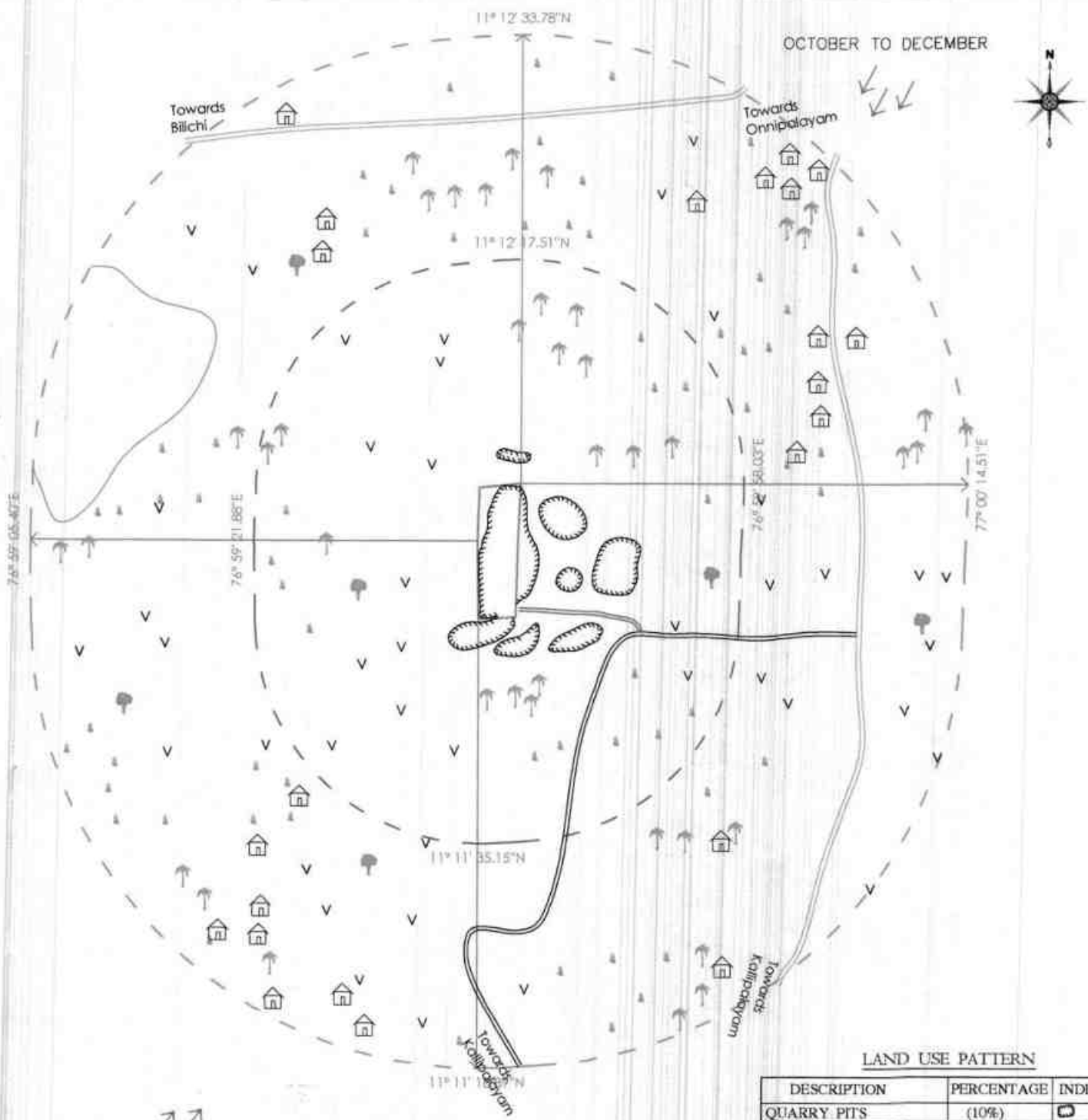
P.VISWANATHAN, M.Sc.,
QUALIFIED PERSON

TOPO SHEET NO. : 58 - A/16

LATITUDE : 11°11'51.42"N to 11°12'01.24"N
LONGITUDE : 76°59'38.35"E to 76°59'41.55"E

10km RADIUS :

Q.L. APPLIED AREA :



INDEX

	Q.L. APPLIED AREA
	1 Km RADIUS
	500m RADIUS
	SEASONAL AGRICULTURE LAND
	TREES & COCONUT FARM
	HABITATION
	QUARRY PIT
	WIND DIRECTION
	PANCHAYAT ROAD
	APPROACH ROAD
	CART TRACK
	BARREN LAND
	ELEVATED AREA

APPLICANT :

M. Sri. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY,
No. 677/ 1A, VELLAMADAI,
COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:

S.F.NO's : 1120/ 2 & 1121/ 2.
EXTENT : 2.60.5 Ha.
VILLAGE : BILICHI,
TALUK : COIMBATORE NORTH,
DISTRICT : COIMBATORE,
STATE : TAMILNADU.

PLATE NO - I-B

DATE OF SURVEY : 08.12.2021

ENVIRONMENTAL & LAND USE PLAN

SCALE: 1:10,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

P. VISWANATHAN, M.Sc.,
QUALIFIED PERSON

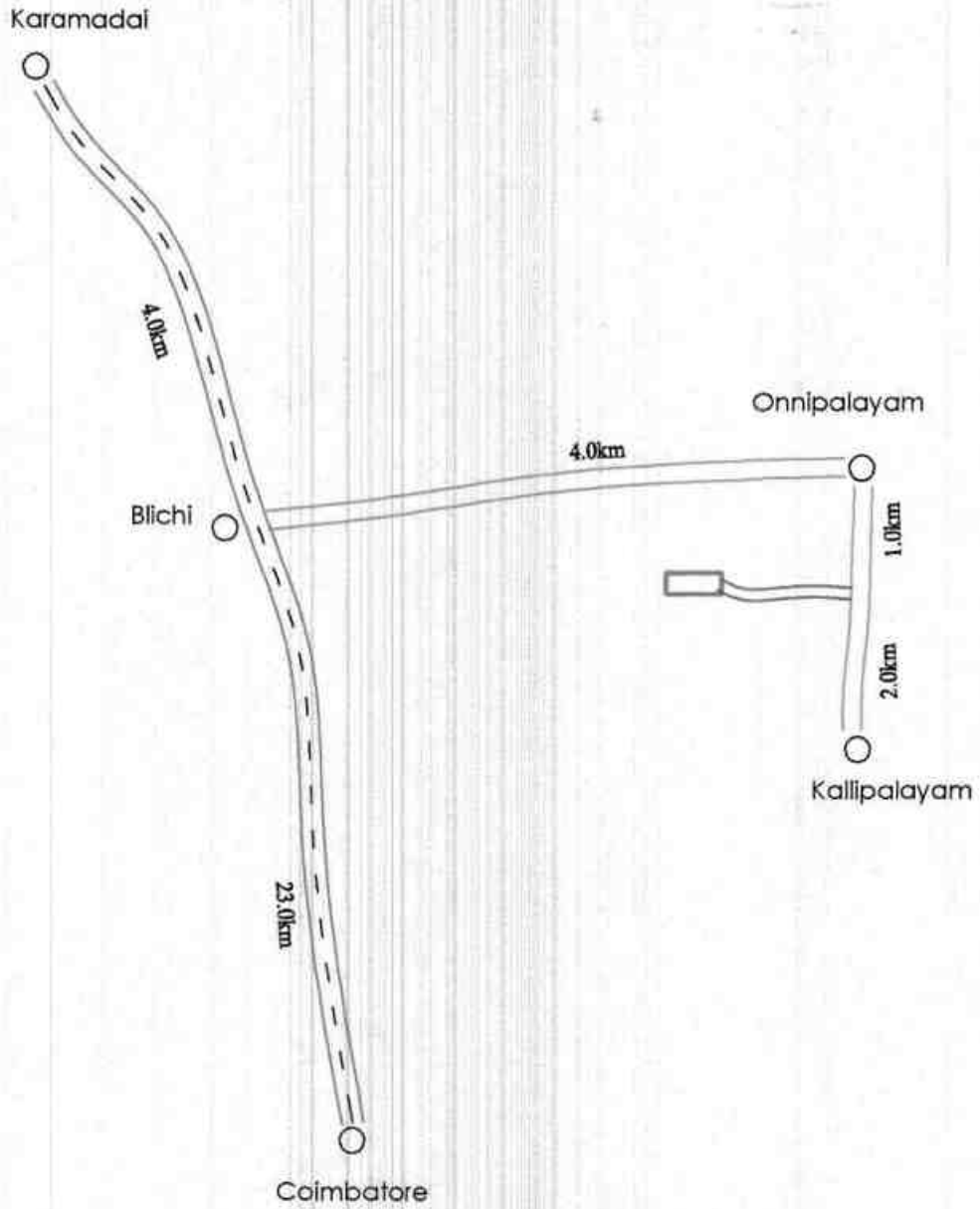
LAND USE PATTERN






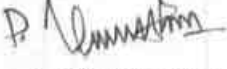
DESCRIPTION	PERCENTAGE	INDEX
QUARRY PITS	(10%)	
TREES/COCO. FARM	(08%)	
SEASONAL AGRI LAND	(32%)	
ROADS	(04%)	
HABITATION	(05%)	
ELEVATED AREA	(06%)	
BARREN LAND	(35%)	
TOTAL	100%	

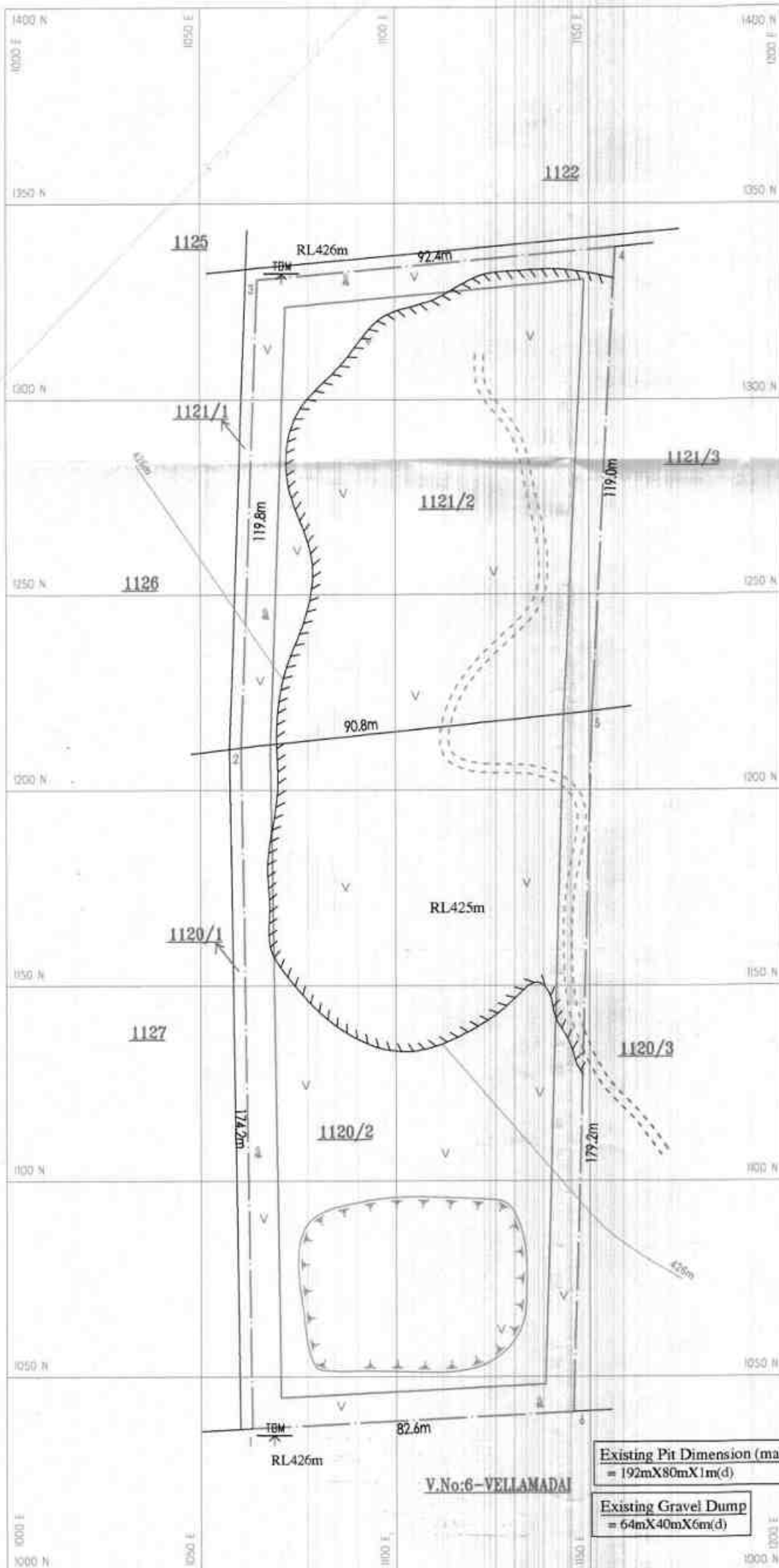
TOPO SHEET NO. : 58 - A/16

LATITUDE : 11°11'51.42"N to 11°12'01.24"N
LONGITUDE : 76°59'38.35"E to 76°59'41.55"E

PLATE NO : I-C
ROUTE MAP



<p><u>INDEX</u></p> <p>LEASE APPLIED AREA </p> <p>NATIONAL HIGHWAY </p> <p>VILLAGE ROAD </p> <p>APPROACH ROAD </p>	<p><u>APPLICANT :</u> </p> <p>Tvl. Sri. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY, No. 677/ 1A, VELLAMADAI, COIMBATORE DISTRICT - 110.</p>	<p><u>SCALE :</u></p> <p>NOT TO SCALE</p>
	<p><u>LOCATION OF Q.L. A. AREA:</u></p> <p>S.F.NO's : 1120/ 2 & 1121/ 2. EXTENT : 2.60.5 Ha. VILLAGE : BILICHI, TALUK : COIMBATORE NORTH, DISTRICT : COIMBATORE, STATE : TAMILNADU.</p>	<p><u>PREPARED BY:</u></p> <p></p> <p>P.VISWANATHAN, M.Sc., QUALIFIED PERSON</p>



S.N.	LATITUDE	LONGITUDE
1	11° 11' 51.42" N	76° 59' 38.41" E
2	11° 11' 57.09" N	76° 59' 38.35" E
3	11° 12' 00.99" N	76° 59' 38.52" E
4	11° 12' 01.24" N	76° 59' 41.55" E
5	11° 11' 57.37" N	76° 59' 41.33" E
6	11° 11' 51.54" N	76° 59' 41.12" E

DATUM : UTM-WGS84, ZONE 43 NORTH

INDEX

- Q.L. APPLIED AREA BOUNDARY
- 7.5m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- GRAVEL
- ROUGHSTONE
- QUARRY PIT
- CONTOUR
- SHRUBS
- MINE HAUL ROAD
- APPROACH ROAD
- DUMP

APPLICANT :

Tvl. Sri. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY,
No. 677/ 1A, VELLAMADAI,
COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:

S.F.NO's : 1120/ 2 & 1121/ 2.
EXTENT : 2.60.5 Hq.
VILLAGE : BILICHI,
TALUK : COIMBATORE NORTH,
DISTRICT : COIMBATORE,
STATE : TAMILNADU.

PLATE NO - II

DATE OF SURVEY : 08.12.2021

QUARRY LEASE PLAN & SURFACE PLAN

SCALE: 1:1000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

P.A. Viswanathan

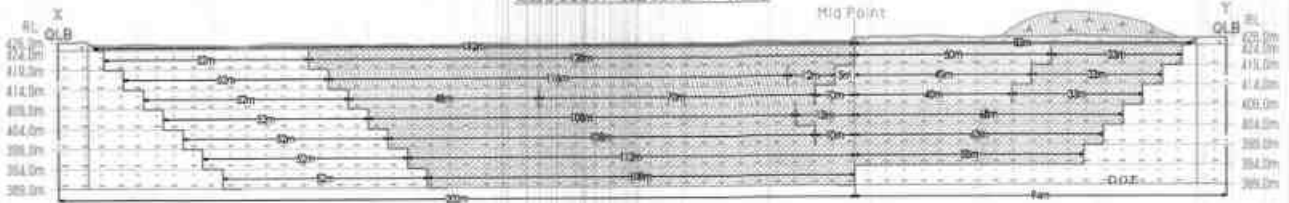
P.VISWANATHAN,M.Sc.,
QUALIFIED PERSON

Existing Pit Dimension (max)
= 192mX80mX1m(d)

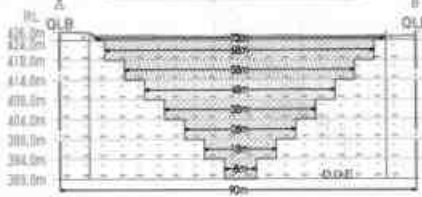
Existing Gravel Dump
= 64mX40mX6m(d)

V.No:6-VELLAMADAI

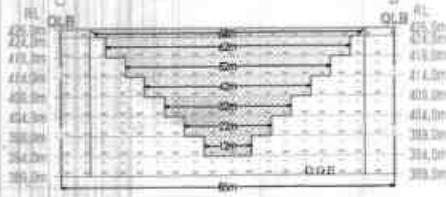
SECTION ALONG : X-Y



SECTION ALONG : A-B



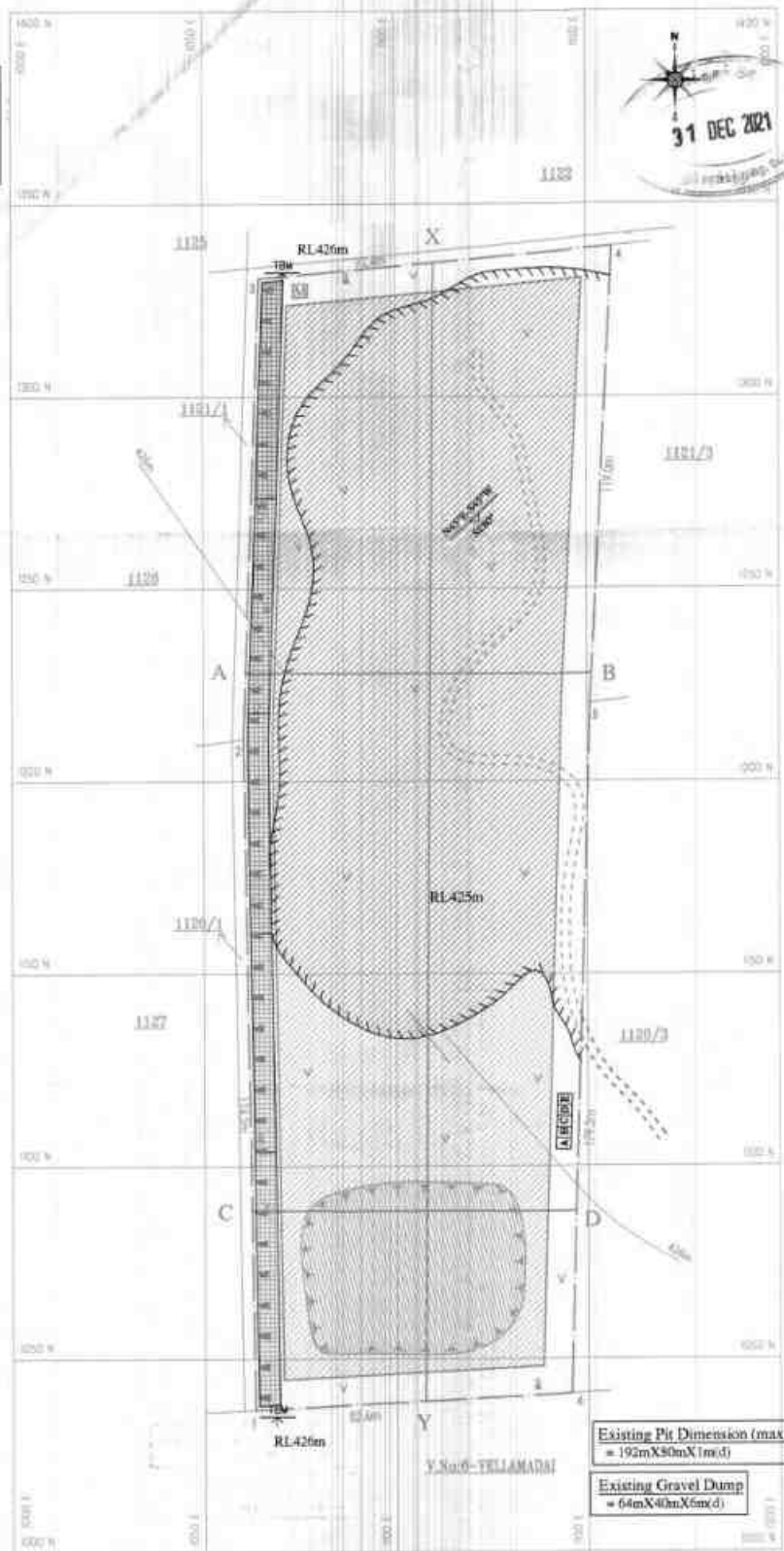
SECTION ALONG : C-D



- I - yr Proposed area to be Quarried
- II - yr Proposed area to be Quarried
- III - yr Proposed area to be Quarried
- IV - yr Proposed area to be Quarried
- V - yr Proposed area to be Quarried
- I - yr Proposed area to be Planted
- II - yr Proposed area to be Planted
- III - yr Proposed area to be Planted
- IV - yr Proposed area to be Planted
- V - yr Proposed area to be Planted

SITE SERVICES
(Proposed)

- A - OFFICE
- B - STORE ROOM
- C - FIRST AID ROOM
- D - FIRST AID ROOM
- E - YARD
- M - MAGAZINE



BOUNDARY COORDINATES

S.N.	LATITUDE	LONGITUDE
1	11° 17' 31.42"N	76° 59' 35.47"E
2	11° 17' 37.07"N	76° 59' 38.25"E
3	11° 17' 00.99"N	76° 59' 38.22"E
4	11° 17' 01.24"N	76° 59' 41.38"E
5	11° 17' 37.37"N	76° 59' 41.32"E
6	11° 17' 31.54"N	76° 59' 41.32"E

DATUM : UTM-WGS84, ZONE 43 NORTH

INDEX

- Q.L. APPLIED AREA, BOUNDARY
- 7.5m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- GRAVEL
- ROUGHSTONE
- STRIKE & DIP
- CONTOUR
- SHRUBS
- QUARRY ROAD
- APPROACH ROAD
- D.O.E DEPTH OF ESTIMATION
- DUMP

APPLICANT :

M. Rajalakshmi Samappa Building Materials Company,
No. 677/ 1A, VELLAMADAL
COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:

S.F.NOs : 1120/ 2 & 1121/ 2.
EXTENT : 2.60 S.Ha.
VILLAGE : BILICHI
TALUK : COIMBATORE NORTH,
DISTRICT : COIMBATORE,
STATE : TAMILNADU.

PLATE NO - III
DATE OF SURVEY : 08.12.2021

**TOPOGRAPHY, GEOLOGICAL PLAN,
FIRST FIVE YEARWISE
DEVELOPMENT & PRODUCTION
PLAN & SECTIONS**
SCALE: 1:1000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
PLATE IS TRUE AND CORRECT TO THE BEST OF MY
KNOWLEDGE BASED UPON THE LEASE MAP
AUTHENTICATED BY STATE GOVERNMENT

P. V. Venkatarao
P. V. VENKATARAO, S.C.,
QUALIFIED PERSON

Existing Pit Dimension (max)
= 192mX50mX1m(d)

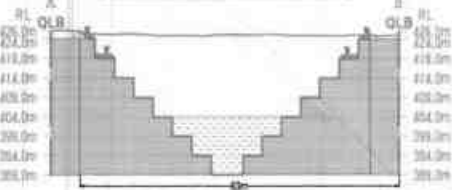
Existing Gravel Dump
= 64mX40mX6m(d)

Y.Sarab-TYLLAMADU

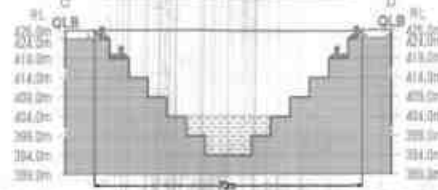
SECTION ALONG : X-Y



SECTION ALONG : A-B



SECTION ALONG : C-D



LAND USE PATTERN

DESCRIPTION	PRESENT AREA (IN Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
QUARRYING PIT	1.465	3.123
DUMP	0.256	Nil
INFRASTRUCTURE	Nil	0.010
ROADS	0.020	0.020
GREEN BELT	Nil	0.160
UNUTILIZED AREA	0.864	0.295
TOTAL	2.605	2.615

SITE SERVICES

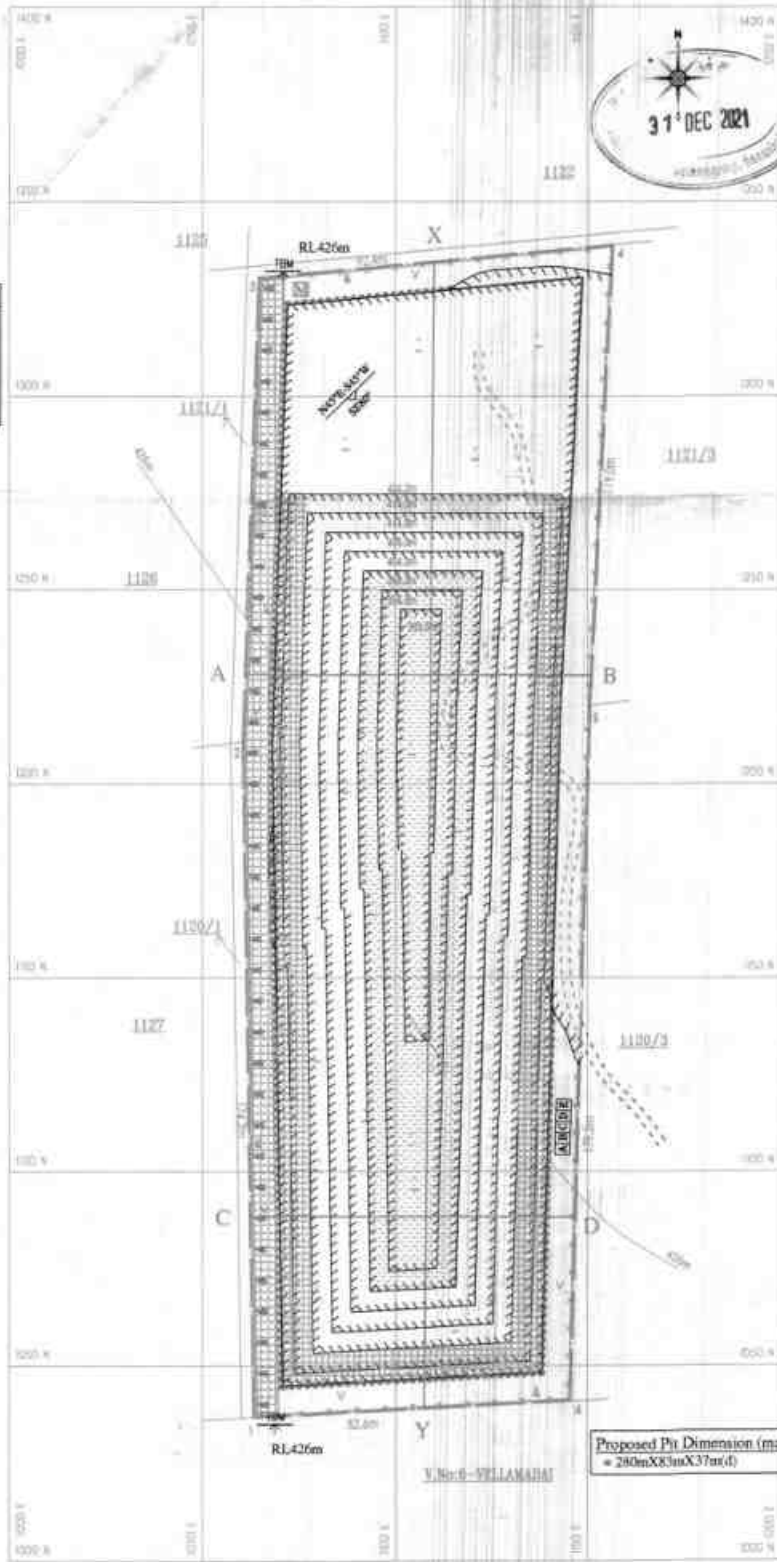
- A - OFFICE
- B - STORE ROOM
- C - TRUCK ASSEMBLY
- D - BUILT UP AREA
- E - TRUCK
- F - WAREHOUSE



BOUNDARY CO-ORDINATES

SL. NO.	COORDINATE	BEARING
1	1117.250m	10° 07' 36.47"
2	1117.250m	10° 07' 36.47"
3	1117.250m	10° 07' 36.47"
4	1117.250m	10° 07' 36.47"
5	1117.250m	10° 07' 36.47"
6	1117.250m	10° 07' 36.47"

DATA : COM-HOBA 306 4 NORTH



INDEX

- Q.L. APPLIED AREA BOUNDARY
- 7.5m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- V V GRAVEL
- ROUGHSTONE
- STRIKE & DIP
- QUARRY PIT
- CONTOUR
- SHRUBS
- QUARRY HAUL ROAD
- APPROACH ROAD
- LV YI PLANTATION
- BARBED WIRE FENCING
- EXISTING LAND FORM
- SOIL LAYER
- REHABILITATED LAND FORM
- PROPOSED GARLAND DRAIN
- OLD SURFACE LEVEL
- FINISHED SURFACE LEVEL
- RAIN WATER STORAGE

APPLICANT :

M. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY, No. 677/1A, VELLAMADAI, COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:

S.F.NO:Y : 1120/2 & 1121/2.
 EXTENT : 2.605 Ha.
 VILLAGE : BELCHI,
 TALUK : COIMBATORE NORTH,
 DISTRICT : COIMBATORE,
 STATE : TAMILNADU.

PLATE NO - IV

DATE OF SURVEY : 08.12.2021

PROGRESSIVE QUARRY CLOSURE PLAN & SECTIONS

SCALE : 1:1000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT.

P. Srinivasan
 P. SRINIVASAN, S.,
 QUALIFIED PERSON

SECTION ALONG : X-Y



SECTION ALONG : A-B

SECTION ALONG : C-D



SITE SERVICES

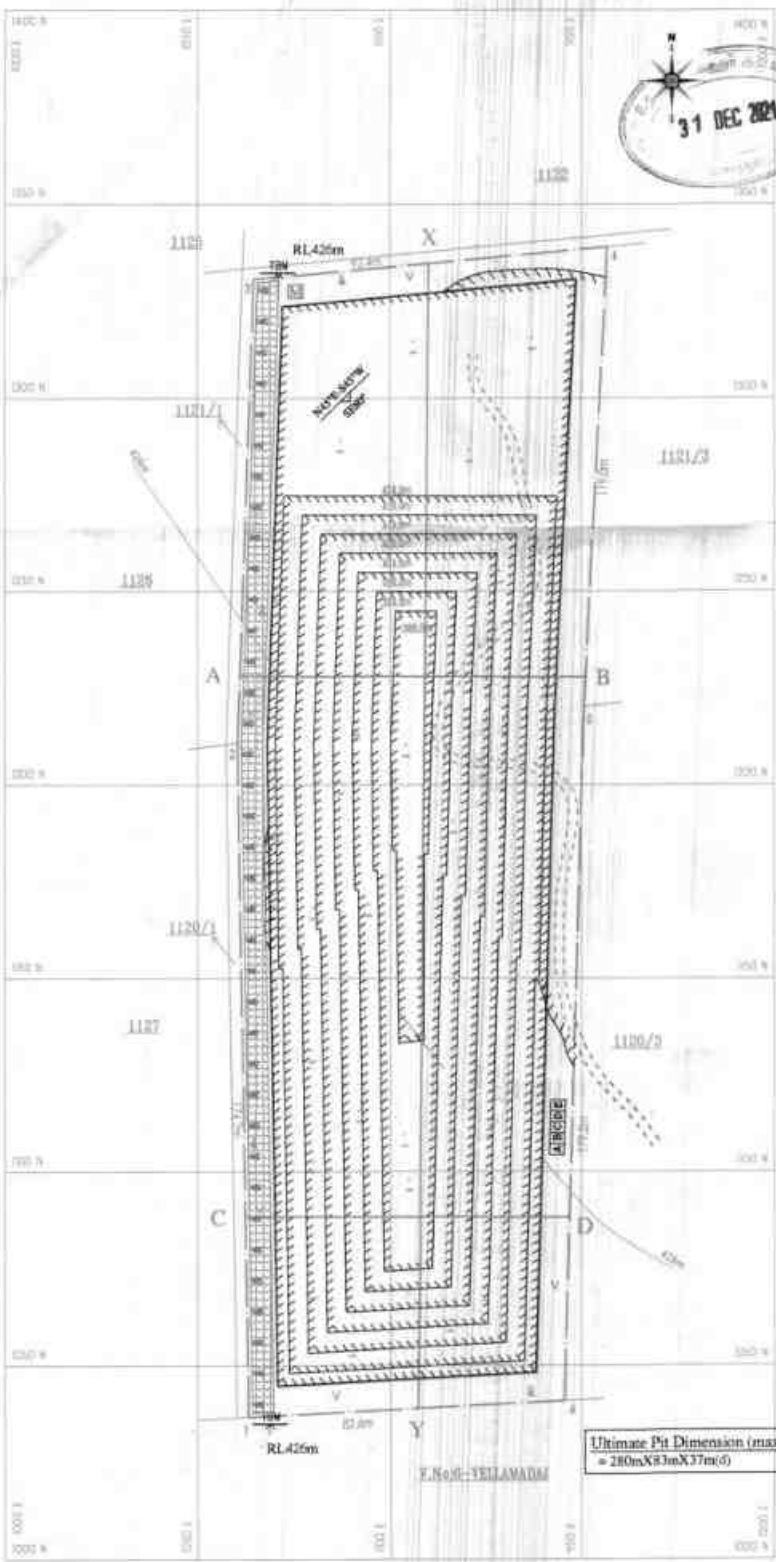
- A - OFFICE
- B - STORE ROOM
- C - FIRST AID ROOM
- D - WASTE BASKET
- E - TOILET
- M - MALLARD



BOUNDARY CO-ORDINATES

S.N.	LATITUDE	LONGITUDE
1	11°17'31.42"N	76°39'36.41"E
2	11°17'37.08"N	76°39'36.32"E
3	11°17'35.89"N	76°39'36.52"E
4	11°17'31.24"N	76°39'41.82"E
5	11°17'37.27"N	76°39'41.32"E
6	11°17'31.24"N	76°39'41.12"E

DATUM: UTM WGS84, ZONE 49 NORTH



INDEX

- Q.L. APPLIED AREA BOUNDARY
- 7.5m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- V V GRAVEL
- ROUGHSTONE
- STRIKE & DIP
- QUARRY PIT
- CONTOUR
- SHRUBS
- QUARRY HAUL ROAD
- APPROACH ROAD
- IV YI PLANTATION

APPLICANT :
 M. RAJALAKSHMI SAMAPPA BUILDING MATERIALS COMPANY,
 No. 677/ 1A, VELLAMADAI,
 COIMBATORE DISTRICT - 110.

LOCATION OF Q.L. APPLIED AREA:
 S.F.NO's : 1120/ 2 & 1121/ 2
 EXTENT : 2.40.5 Ha.
 VILLAGE : BELCHI,
 TALUK : COIMBATORE NORTH,
 DISTRICT : COIMBATORE,
 STATE : TAMILNADU.

PLATE NO - V
 DATE OF SURVEY : 08.12.2021

CONCEPTUAL PLAN & SECTIONS
 SCALE: 1:1000

PREPARED BY :
 THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEADS MAP AUTHENTICATED BY STATE GOVERNMENT.
 P. VISWANATHAN S.
 QUALIFIED PERSON

Ultimate Pit Dimension (max)
 = 280mX83mX37m(6)

F.No: VELLAMADAI

இணை / உதவி இயக்குநர் சிறுவலகம்
29 MAR 2019
செயல்பாட்டுத் துறை, சேலம் மாவட்டம்.

MINING PLAN FOR BILICHI (E-W) ROUGHSTONE AND GRAVEL QUARRY

(PREPARED UNDER RULES 41 & 42 AS AMENDED IN TAMILNADU MINOR MINERAL CONCESSION RULES, 1959)

(Lease Period = Five Years)

IN

LOCATION OF THE QUARRY LEASE APPLIED AREA

EXTENT : 4.62.50ha
S.F.NOS : 1119, 1120/4B & 1121/4B
VILLAGE : BILICHI (E-W)
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMILNADU

FOR

APPLICANT

Thiru.P.Siddharthamouli,
S/o.Palanisamy,
No.2/246, Kannarpalayam,
Karamadai,
Coimbatore District.

PREPARED BY

Dr.P.Thangaraju, M.Sc., Ph.D.,
Qualified Person

Regd.off.No:17, Advaita Ashram Road,
Alagapuram Post,
Salem - 636 004.
Cell: 94433 56539.

E-mail id: infogeoexploration@gmail.com

P.Siddharthamouli,
S/o.Palanisamy,
No.2/246, Kannarpalayam.
Karamadai,
Coimbatore District.



CONSENT LETTER FROM APPLICANT

The Mining Plan in Respect Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta Land in Bilichi (E-W) Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu State has been prepared by

Dr.P.Thangaraju, M.Sc., Ph.D.,

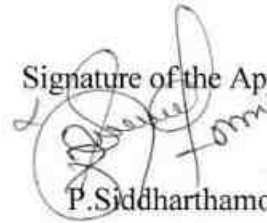
Qualified Person

I request to the District Collector, Coimbatore to make further correspondence regarding the modification of the Mining Plan with the said Qualified Person at his following address.

Dr.P.Thangaraju, M.Sc., Ph.D.,

Regd.off.No:17,
Advaitha Ashram Road,
Alagapuram Post,
Salem – 636 004.
Cell: 94433 56539, 94422 78601.

I hereby undertake that all the modifications, if any made in the Mining Plan by the Qualified Person may be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Signature of the Applicant

P.Siddharthamouli

Place : Coimbatore
Date : 07.03.2019

P.Siddharthamouli,

S/o.Palanisamy.

No.2/246, Kannarpalayam.

Karamadai,

Coimbatore District.



DECLARATION OF THE APPLICANT

The Mining Plan in Respect of Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta Land in Bilichi (E-W) Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu State has been prepared in full consultation with me.

I have understood its contents and agree to implement the same in accordance with Laws, Rules and Act applicable to Quarry.

Signature of the Applicant

P.Siddharthamouli

Place : Coimbatore

Date : 07.03.2019



CERTIFICATE

Certified that I, **Dr.P.THANGARAJU, M.Sc., Ph.D.,** having an office at Regd.off.No.17, Advaita Ashram Road, Alagapuram, Salem – 636 004, am a Post Graduate in Geology (M.Sc.Geology) from Madras University, Chennai and I worked in the field of Geology in a role of Geologist.

Rule 15(I)(a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) Concession Rules 2016 stipulates the eligibility for preparing Mining plans as “(I)(a) a post graduate degree in Geology granted by a university established” and (I)(b) “Professional experience of five years of working in a supervisory capacity in the field of mining after obtaining the degree”. Since my qualification and experience are satisfied the Rule (I)(a) and (I)(b) of 15 of the said Rules, I am eligible to prepare Mining Plans for both Major and Minor Minerals.

Accordingly, I prepare this Mining Plan in respect of Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta Land in Bilichi (E-W) Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu State for **Thiru.P.Siddharthamouli, S/o.Palanisamy, No.2/246, Kannarpalayam, Karamadai, Coimbatore District,** Since the Mining Plan is prepared as per the provisions contained in Rule 15(I)(a) and (I)(b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) Concession Rules, 2016.

Signature of the Qualified Person


Dr.P.Thangaraju, M.Sc., Ph.D.,

Place: Salem

Date: 09.03.2019

Dr.P.Thangaraju, M.Sc., Ph.D.,

Regd.off.No:17,

Advaita Ashram Road,

Alagapuram Post,

Salem – 636 004.

Cell: 94433 56539, 94422 78601.



CERTIFICATE FROM THE QUALIFIED PERSON

This is to certify that the Provisions of Prepared under Rules 41 & 42 as Amended in Tamilnadu Minor Mineral Concession Rules, 1959. The preparation of Mining Plan for Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta Land in Bilichi (E-W) Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu State has been prepared for

Thiru.P.Siddharthamouli,

S/o.Palanisamy,

No.2/246, Kannarpalayam,

Karamadai,

Coimbatore District.

Whenever specific permissions/ exemptions/ relaxations and approvals are required, the Applicant will approach the concerned authorities of the District Collectorate, Coimbatore, Tamilnadu 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.

Signature of the Qualified Person

Dr.P.Thangaraju, M.Sc., Ph.D.,

Place: Salem

Date: 09.03.2019

Dr.P.Thangaraju, M.Sc., Ph.D.,

Regd.off.No: 17,

Advaita Ashram Road,

Alagapuram Post,

Salem – 636 004.

Cell: 94433 56539, 94422 78601.



CERTIFICATE FROM THE QUALIFIED PERSON

Certified that the Provisions of Mines Act, Rules and Regulations or Orders made there under have been observed in the preparation of Mining Plan for Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta Land in Bilichi (E-W) Village, Coimbatore North Taluk, Coimbatore District, Tamilnadu State has been prepared for

Thiru.P.Siddharthamouli,

S/o.Palanisamy,

No.2/246, Kannarpalayam,

Karamadai,

Coimbatore District.

Whenever specific permissions/ exemptions/ relaxations and approvals are required, the Applicant will approach the concerned authorities of Director General of Mines Safety (DGMS), No.5, II Street, Block-AA, Anna Nagar, Chennai-40, Tamilnadu for such permissions/ exemptions/ relaxations and approvals.

It is also certified that information furnished in the mining plan are true and correct to the best of my knowledge.

Signature of the Qualified Person

Dr.P.Thangaraju, M.Sc., Ph.D.,

Place: Salem

Date: 09.03.2019



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**MINING PLAN FOR BILICHI (E-W) ROUGHSTONE AND GRAVEL QUARRY
OVER AN EXTENT OF 4.62.50ha IN BILICHI (E-W) VILLAGE,
COIMBATORE NORTH TALUK, COIMBATORE DISTRICT, TAMILNADU.**

(Prepared Under Rules 41 & 42 as Per the Amended Under Tamilnadu Minor Mineral Concession Rules, 1959)

1.0 INTRODUCTION AND EXECUTIVE SUMMARY

The Mining Plan and Environment Management Plan is prepared for Thiru.P.Siddharthamouli, S/o.Palanisamy, No.2/246, Kannarpalayam, Karamadai, Coimbatore District has applied for Roughstone and Gravel Quarry in S.F.Nos.1119, 1120/4B & 1121/4B over an extent of 4.62.50ha of Patta land in Bilichi (E-W) Village, Coimbatore North Taluk of Coimbatore District as per Prepared under Rules of 41 & 42 as Amended in Tamilnadu Minor Mineral Concession Rules, 1959.

The application was processed by the District Collector, Coimbatore and passed a letter vide **Re.No.617/Mines/2018 Dated 07.03.2019** to submit Mining Plan for the approval in Department of Geology and Mining, Coimbatore to obtain Environment Clearance from the Appropriate Authorities, Tamilnadu.

In order to ensure compliance of the order of the Honourable supreme court dated 27.02.2012 in I.A.No.12.13.2011 in Special Leave Petition SLP (C) No.19628-19629/2009, now it has been decided that all mining projects of minor minerals including their renewal irrespective of sizes of the lease would hence forth require prior environment clearance for mining project within the lease area up to less than 100ha including projects or minor mineral with lease area less than 5ha would be treated as category B as defined in the EIA notification 2006 and will be considered by the State notified by MoEF as prescribed procedure under EIA notification 2006.

In the above circumstances the applicant through his consultant is hereby preparing the mining plan for approval and subsequent submission of Form-I and Pre feasibility report to obtain environment clearance from the Appropriate Authorities, Tamilnadu to Roughstone and Gravel quarry. This mining plan is prepared by considering the TNMMCR 1959 and as per the EIA Notification 2006 and its further amendments and judgments up to till 24.01.2019.

**Short Notes of Mining plan**

- a. Village Panchayat - Bilichi (E-W)
- b. Panchayat Union - Periyanyakkanpalayam
- c. The Geological Resources are **6,42,164m³** of Roughstone and **92,244m³** of Gravel formation in the entire area.
- d. The Total Mineable Reserves are **3,65,156m³** of Roughstone and **70,592m³** of Gravel formation in the entire area.
- e. The proposed quantity of reserves/ (level of production) to be mined and is about **2,82,076m³** of Roughstone for a period of five years and **70,592m³** of Gravel formation for a period of three years in the entire area.
- f. Total extent of the lease applied area is about 4.62.50ha.
- g. Topography of the area = The area exhibits slightly elevated topography
- h. Proposed Depth of mining = 22m below ground level
- i. Lease period = Five years
- j. It is a fresh application.
- k. Method of mining/ level of mechanization.
Opencast mechanized method, the quarry operation involves shallow jack hammer drilling, slurry blasting.
- l. Type of machineries proposed in the quarrying operation.
Excavators attached with rock breaker (Rental Basis).
Jackhammer, Compressor (Diesel drive) (4 jack hammer capacity).
- m. No trees will be uprooted due to this quarrying operation.
- n. The approach road from the main road to quarry will be constructed and maintained in a good condition for the haulage of Blue metals and machineries.
- o. There is no export of this Roughstone and Gravel.
- p. Topo sketch covering 10km and 1km radius around the proposed area with markings of habitations, water bodies including streams, rivers, roads, major structure like bridges, wells, archeological importance, places of worships is marked and enclosed as Plate No.IA and IB.
- q. The lease applied area is about 4.62.50ha bounded by nine corners; the corners are designated as 1-9 Clockwise from the Southwestern corner the Co – ordinates for the all the corners are clearly marked in the Topography, Geological Plan and section enclosed as (Plate No-III).



Mining Plan

Bilichi (E-W) Roughstone and Gravel Quarry

- r. The plans of proposed quarrying area showing the dimensions of the pit, their proposed depth and maximum area of proposed quarrying are enclosed as Plate No.III.
- s. Eco Sensitive area is located at 9.2km from Western side of the lease applied area.
- t. General conditions will not be applicable for the proposed area. The area applied for lease is 10km away from the,
- i) *Interstate boundary.*
 - ii) *Protected area under wild life protection ACT 1972.*
 - iii) *Critically polluted areas as identified by CPCB,*
- u. There are no wastages anticipated during this quarry operation, hence waste dump is not proposed in the lease applied area.
- v. Around 30 employees are deploying in the quarrying operation.
- w. Total Cost of the project is about **Rs.1,13,17,563/-**.



Mining Plan

Bilichi (E-W) Roughstone and Gravel Quarry

2.0 GENERAL INFORMATION

2.1 a) Name of the Applicant : Thiru.P.Siddharthamouli,

b) Address of the Applicant (With Phone No and Aadhaar Number)

Address : S/o.Palanisamy,
No.2/246, Kannarpalayam,
Karamadai,
Coimbatore District.

Pin code : 641 104

Mobile No : 97867 96039 & 98422 04259

Aadhaar Number : 5445 8330 7612

c) Status of the Applicant (Individual/ Company/ Firm).

The applicant is an individual.

2.2 a) Mineral which the Applicant intends to mine.

The Applicant intends to quarry Roughstone and Gravel only.

b) Precise area communication letter details received from the competent authority of the Government.

The precise area communication letter was received from the District Collector, Coimbatore vide **R.c.No.617/Mines/2018 Dated 07.03.2019** to obtain approved mining plan and obtain Environment Clearance from the Appropriate Authorities, Tamilnadu.

c) Period of permission/ lease to be granted.

The applicant applied permission to quarry Roughstone and Gravel for the period of Five years/ The District Collector considered for the Grant of quarry lease for the period of Five years for Roughstone and Three years for Gravel.



Mining Plan

Bilichi (E-W) Roughstone and Gravel Quarry

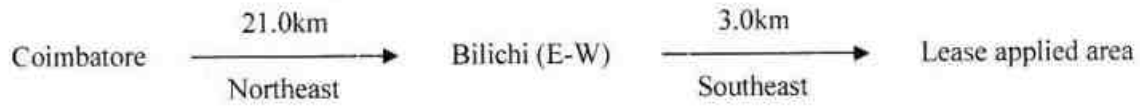
d) Name and address of the Qualified Person preparing the mining plan.

Name : **Dr.P.Thangaraju, M.Sc., Ph.D.,**
Address : Regd.off.No.17,
Advaitha Ashram Road,
Alagapuram, Salem – 636 004.
Mobile : 94433 56539
Tele Fax : 0427- 2431989
Email : infogeoexploration@gmail.com

3.0 LOCATION

a) Details of the area with location map

The lease applied area is about 21.0km Northeastern side of Coimbatore and 3.0km from Southeastern side of Bilichi (E-W) Village.





Location Map of the Lease applied area

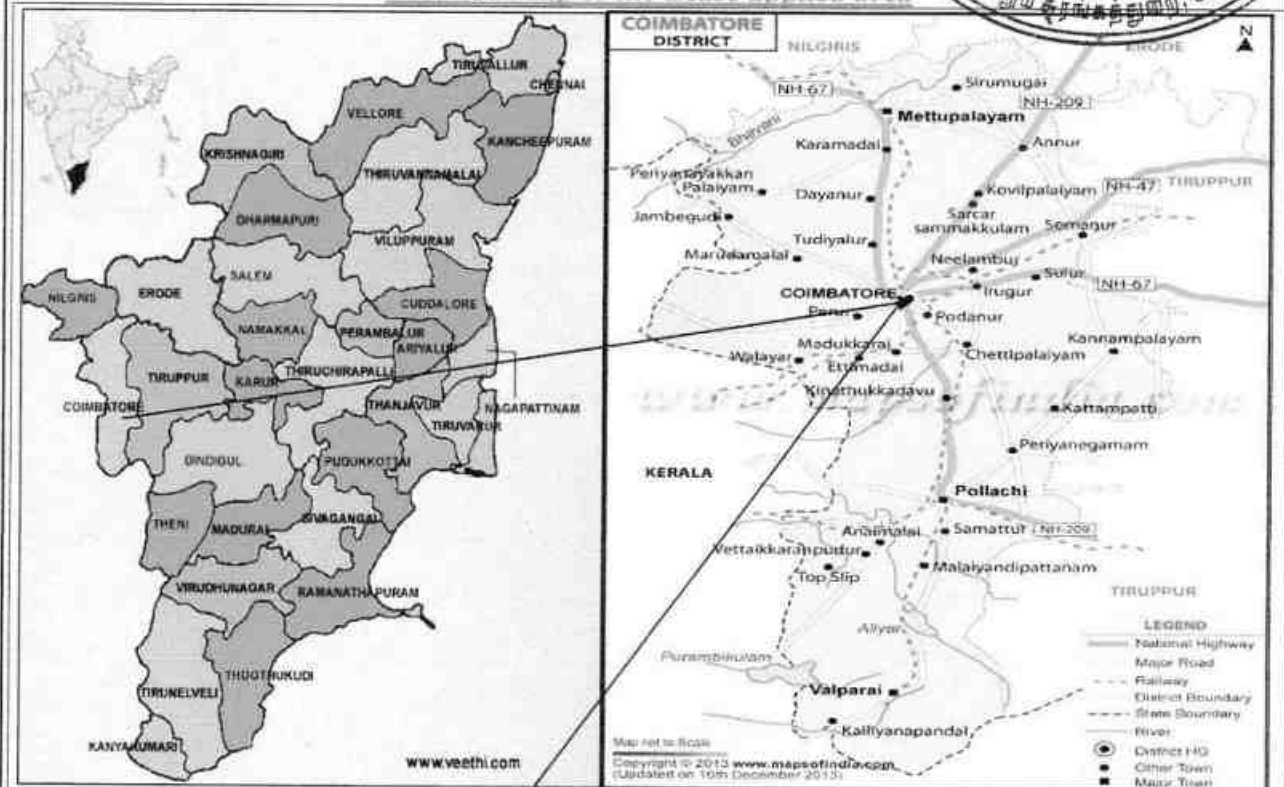


TABLE - 1

District	Taluk	Village	S.F.Nos	Lease applied area in ha
Coimbatore	Coimbatore North	Bilichi (E-W)	1119	3.36.50
			1120/4B	0.77.50
			1121/4B	0.48.50
Total Extent				4.62.50ha

b) **Classification of the area (Ryotwari/ Poreamboke/ others).**

It is a Patta Land (Barren land) which is not fit for vegetation/ Cultivation.

c) **Ownership/ Occupancy of the applied area (surface right).**

It is a Patta land, Jointly Registered the S.F.Nos.1120/4B & 1120/4B Name of Applicant (Thiru.P.Siddharthamouli) & Srikanth vide Patta Nos.3134 & 3133 another one jointly registered Name of Chandira and Jayalakshmi vide Patta No.3289. The applicant has been consent from Joint Pattadhars. (Refer the Patta copy as Annexure No.IV & Consent Document as Annexure No. VII).

d) **Toposheet No. with latitude and longitude.**

The lease area falls in the Toposheet No.58-A/16 Latitude between 11°11'51.83"N to 11°11'01.78"N and Longitude between 76°59'44.32"E to 76°59'54.24"E on WGS datum-1984. Refer the Plate No.I & II).

e) **Existence of public road/ Railway line, if any nearby and approximate distance.**

The metal road is situated on the Eastern side of the applied area which connects the village road at a distance 370m.

Multiple road access is available from the quarry to state highways and National Highway, no villages are enrooted hence the traffic density is not much more due to the transportation of Roughstone.

The same road will be maintained and utilized for haulage, besides trees will be planted on the either side of the road to prevent dust and noise propagation to the nearby areas.

The Nearest Railway line is Coimbatore - Ooty line which is about 2.8km on the Northwestern side of the area.

PART - A**4.0 GEOLOGY AND MINERAL RESERVES.****4.1 Brief description of the Topography and general Geology of the area (with plans).**

The lease applied area is exhibits slightly elevated topography. The area has gentle sloping towards Northeastern side. The altitude of the area is 420m (Max) above Mean sea level. The area is covered by the Gravel which is about 2.0m thickness. Massive Granitic Gneiss is found after 2.0m (Gravel) which is clearly inferred from the nearby existing quarry pits.

The Water level in the surrounding area is 55-50m below general ground profile which is observed from the nearby bore wells. Average annual rainfall is about 709mm during the monsoon.



Topographical View of lease applied area

Peninsular gneiss forms the oldest rock formations, in which the massive formation of Granitic Gneiss lies over with rich accumulation of recent quaternary formation. On regional scale the Granitic Gneiss body $N30^{\circ}E$ to $S30^{\circ}W$ with dipping $SE60^{\circ}$.

The general geological sequences of the rocks in this area are given below

↑ AGE	FORMATION
Recent	- Quaternary weathered Formation (Gravel)
-----Unconformity-----	
Archaean	- Granitic Gneiss Peninsular Gneiss complex

4.2 Details of exploration already carried out if any

State Geology and Mining Dept, Govt. of Tamilnadu, has carried out the Regional prospecting and exploration in these areas during 1992 to 1993.

Geological Survey of India has carried out detailed mapping in Coimbatore District. Besides, the Qualified Person and his team members made a detailed geological of the proposed area. The Roughstone formation is clearly inferred from the nearby existing quarry pits.

4.3 Estimation of Reserves

a) Geological reserves with geological sections on a scale of 1:1000/ 1:2000.

As far as Roughstone is concerned, the only practical method is the systematic geological mapping and delineation of Roughstone within the field and careful evaluation of body luster, physical properties, engineering properties, commercial aspects etc.,

Totally six sections have been drawn, two sections are drawn Length wise as (X-Y) (X1-Y1) and another four sections are drawn Width wise as (A-B), (E-F) to cover the maximum area considered for lease. The Topographical, Geological and sections delineated the commercial marketable Roughstone deposit has been prepared in 1:1000 scale (Refer the Geological plan and sections Plate No-III. The sale of Roughstone is in terms of cubic meters (Volume) and not in terms of tonnage.

Geological Resources (Plate No.III)

The Geological Resources of Roughstone and Gravel are calculated up to a maximum depth of 22m below ground level.

TABLE-2

GEOLOGICAL RESOURCES						
Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Geological Resources in Rough stone (m ³)	Gravel formation (m ³)
XY-AB	I	41	119	2	-	9758
	II	41	119	2	9758	-
	III	41	119	5	24395	-
	IV	41	119	5	24395	-
	V	41	119	5	24395	-
	Total					82943
X1Y1-CD	I	105	171	2	-	35910
	II	68	113	4	30736	-
	III	105	171	5	89775	-
	IV	105	171	5	89775	-
	V	105	171	5	89775	-
	Total					300061
X1Y1-EF	I	70	146	2	-	20440
	III	45	146	4	26280	-
	IV	70	146	5	51100	-
	V	70	146	5	51100	-
	Total					128480
X1Y1-GH	I	108	121	2	-	26136
	IV	108	121	5	65340	-
	V	108	121	5	65340	-
	Total					130680
Grand Total					642164	92244

The Geological Resources of Roughstone = 6,42,164m³

The Geological Resources of Gravel = 92,244m³



Mineable Reserves:

The Mineable reserves are calculated by deducting 7.5m safety distance maintained by adjacent Patta land, 10m safety distance maintained by Cart track & Odai and bench locked up Reserves.

TABLE-3

MINEABLE RESERVES						
Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Mineable Reserves in Rough stone (m ³)	Gravel formation (m ³)
XY-AB	I	24	108	2	-	5184
	II	18	104	2	3744	-
	III	8	99	5	3960	-
	Total				7704	5184
X1Y1-CD	I	97	154	2	-	29876
	II	56	103	4	23072	-
	III	89	138	5	61410	-
	IV	84	127	5	53340	-
	V	78	117	5	45630	-
	Total				183452	29876
X1Y1-EF	I	70	129	2	-	18060
	III	45	125	4	22500	-
	IV	70	118	5	41300	-
	V	70	107	5	37450	-
	Total				101250	18060
X1Y1-GH	I	84	104	2	-	17472
	IV	81	98	5	39690	-
	V	76	87	5	33060	-
	Total				72750	17472
Grand Total					365156	70592

The available mineable reserves have been computed as **3,65,156m³** of Roughstone and **70,592m³** of Gravel formation at the rate of 100% recovery upto a maximum depth of 22m below ground level for a mining period of Five years.

5.0 MINING

5.1 Method of mining (opencast/ underground).

Open cast Mechanized Mining is being carried out with 5.0 meter vertical bench and a bench width not less than the bench height.

However, as far as the quarrying of Roughstone is concerned, observance of the provisions of Regulation 106 (2) (b) as above is seldom possible due to various inherent petro genetic factors coupled with mining difficulties. Hence it is proposed to obtain relaxation to the provisions of the above regulation from the Director of Mines Safety for which necessary provision is available with the Regulation 106 (2) (b) of MMR-1961, under Mine Act - 1952.

5.2 Mode of working (mechanized, manual).

The Roughstone is proposed to quarry at 5m bench height & width with conventional opencast Mechanized Method. The quarry operation involves shallow jack hammer drilling slurry, Blasting, Excavation, Loading and Transportation of Roughstone to the needy customers.

The production of Roughstone in this quarry involves the following method which is typical for Roughstone quarrying in contrast to other major mineral mining.

Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Roughstone from pithead to the needy crushers.

Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting. The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators. It is a conventional opencast mechanized method of mining.

5.3 Proposed Bench Height and Width.

The Granitic Gneiss is hard and compact rock, the bench height is proposed 5.0 meter vertical bench the width of the bench is not less than the Height.

5.4 Indicate the overburden/mineral production expected pit wise as detailed below (composite plan and section showing pit layout, dumps, disposal of waste if any etc.)

The overburden in the form of Gravel formation, the Gravel will be directly loaded into tipper for the filling and levelling of low lying areas, this will be done only after obtaining permission and paying necessary seigniorage fees to the Government. The excavated Roughstone will be directly loaded into tipper to the needy customers. The Composite plan, Development plan and section indicating the Pit lay out, Green belt development are shown in Plate No-III.



Year wise development and Production

TABLE-4

YEARWISE PRODUCTION DETAILS							
Year	Section	Bench	Length in (m)	Width in (m)	Depth in (m)	Recoverable Reserves in Rough stone (m³)	Gravel formation (m³)
1st Year	X1Y1-GH	I	84	104	2	-	17472
		IV	77	98	5	37730	-
		V	38	87	5	16530	-
		Total					54260
2nd Year	X1Y1-EF	IV	4	98	5	1960	-
		I	70	129	2	-	18060
		III	41	125	4	20500	-
		IV	61	118	5	35990	-
		Total					58450
3rd Year	X1Y1-CD	III	4	125	4	2000	-
		I	97	154	2	-	29876
		II	56	103	4	23072	-
	XY-AB	III	40	138	5	27600	-
		I	24	108	2	-	5184
		II	18	104	2	3744	-
		III	8	99	5	3960	-
	Total					60376	35060
4th Year	X1Y1-CD	III	49	138	5	33810	-
		IV	33	127	5	20955	-
		Total					54765
5th Year	X1Y1-EF	IV	51	127	5	32385	-
	X1Y1-EF	IV	9	118	5	5310	-
	X1Y1-GH	V	38	87	5	16530	-
Total					54225	-	
Grand Total						282076	70592

The Recoverable reserves have been computed as **2,82,076m³** of Roughstone for a period of five years and **70,592m³** of Gravel formation for a period of three years at the rate of 100% recovery upto a maximum depth of 22m below ground level.

The applicant ensures the total quantity proposed in the benches will not exceed during the Quarrying operation. Besides the Roughstone locked up in benches will be exploited after obtaining necessary permission from the office of **Director General of Mine Safety**, Chennai region by submitting relevant documents, appropriate safety plans and its Mitigation measures.



Mining Plan

Bilichy (E-W) Roughstone and Gravel Quarry

One lorry load	=	600 (approx)
Total No of Working days	=	260 Days per year
Total quantity to be removed in this five years plan period	=	2.82.076m ³
Hence total lorry loads per day	=	2.82.076m ³ / 6m ³
	=	47013Lorry loads
	=	47013/5 years
	=	9403/260 Days
	=	36 Lorry loads per day.

Working hours = 8.00 am to 6.00 pm (with 1-2 pm lunch break)

5.5 Machineries to be used for Mining

The following machineries are utilized on rental basis for the development and production work at this quarry.

TABLE - 5

I. DRILLING MACHINE

S.No.	Type	Nos	Dia Hole mm	Size Capacity	Motive power
1	Jack hammer	8	30-35	1.2m to 2m	Compressed air
2	Compressor	2	-	400 psi	Diesel Drive

II. EXCAVATION AND LOADING EQUIPMENT

S.No.	Type	Nos	Capacity	Motive Power
1	Excavator with Bucket and Rock Breaker	2	300	Diesel Drive

III. HAULAGE WITHIN THE MINE & TRANSPORT EQUIPMENT

S.No.	Type	Nos	Capacity	Motive Power
1	Tippers	3	20 Tonnes	Diesel Drive

5.6 Disposal of Overburden/Waste

The overburden in the form of Gravel formation, the Gravel will be directly loaded into tippers for the filling and levelling of low lying areas. There is no disposal of Gravel. The excavated Roughstone will be directly loaded into tipper to the needy customers.

**5.7 Brief note on conceptual mining plan for the entire lease period Phase on the geological, mining and environment considerations.**

Conceptual mining plan is prepared with an object of long term systematic development of benches, layouts, selection of permanent structures, depth of quarrying and ultimate pit dimensions, selection of sites for construction of infrastructure, etc.,

The ultimate pit size is designed Phased on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc.,

As the applicant has applied quarry lease for Five years, the ultimate pit limit (dimension) at the end of this mining plan period is given below.

TABLE-6

<i>Description</i>	<i>Length (Max) (m)</i>	<i>Width (Max) (m)</i>	<i>Depth (Max) (m)</i>
Conceptual	251m	154m	22m from below ground level

Greenbelt has proposed on the 7.5m & 10m safety barrier and Panchayat roads by planting Neem/ Casuarina trees of native species. All the base line information studies like Air quality monitoring, Noise and vibration monitoring, Water analysis studies will be carried out every year as per the MoEF&CC Norms. Please refer Plate No. III & IV. It is propose to engage any local institution to monitor the EIA and EMP during the course of quarrying operation after the grant of quarry lease.

6.0 BLASTING**6.1 Blasting patterns**

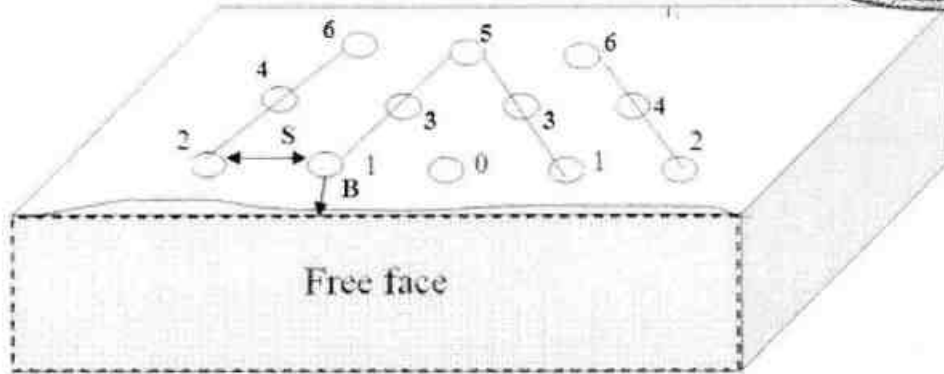
The quarrying operation is proposed to carried out by Opencast Mechanized Method in conjunction with conventional method of mining using Jack hammer drilling and blasting for shattering effect and loosen the Roughstone.

Drilling and blasting parameters are as follows:

Depth of Each hole	:	1.5m
Diameter of hole	:	30-32mm
Spacing between holes	:	1.2m
Burden for hole	:	1.0m
Pattern of hole	:	Zigzag – Multi-rows
Inclination of holes	:	80 ⁰ from horizontal
Use of delay detonators	:	25millisecond relays
Detonating fuse	:	“Detonating” Cord



BLASTING PATTERN DRAWING



Staggered "V" Pattern of Blasting Design

Spacing	=	1.2m
Burden	=	1.0m
Depth of the hole	=	1.5m
No of holes proposed per day	=	188Holes

6.2 Type of explosives to be used

Small Dia.25mm Slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Roughstone. No deep hole drilling and primary blasting are proposed.

6.3 Measures proposed to minimize ground vibration due to blasting

Shallow depth jackhammer drilling & blasting are proposed to be quarry with minimum use of explosives mainly to give shattering effect in Roughstone for easy excavation and control fly rock.

Delay detonators

Delay blasting (millisecond delays) permits to divide the shot in to smaller charges, which are detonated in a predetermined millisecond sequence at specific time intervals.

The major advantages of delay blasting are

- Reduction of ground vibration.
- Reduction in air blast.
- Reduction in over break.
- Improved fragmentation.
- Better control of fly-rocks.

Blasting program for the production per day:

No of Holes	= 188Holes
Yield	= 564Tons
Powder factor	= 6tons/Kg of explosives
Total explosive required	= 94Kg- Slurry explosives
Charge/ hole	= 0.5Kg
Blasted at day time only	= 5-6p.m (whenever required)

**6.4 Storage and safety measures to be taken while blasting**

The applicant has authorized explosive agency to carry out the small amount of blasting and it is being supervised by competent and statutory foreman. The explosives agencies should have the valid Blaster certificate. He will blast holes in the quarry site. After the completion of Blasting, the explosives Agencies will take it out back the remaining quantity of Explosives. The magazine is available at the quarry site to temporarily store the explosives.

7.0 MINE DRAINAGE**7.1 Depth of water table (Phased on nearby wells and water bodies).**

The water table in the area is about 55m BGL in summer season and 50m in Rainy season which is observed from the nearby wells and the data obtained from existing private boreholes. The lease area is fully covered by Massive Granitic Gneiss formation and it is revealed from the adjacent quarries. Hence the Ground Water problem will not arise. If water seepage may occur due to the fracture, the same will be used for Greenbelt.

TABLE -7

Type	Distance & Direction	Location
Open well	300m Western side	11°11'54.93"N 76°59'34.44"E

7.2 Arrangements and places where the mine water is finally proposed to be discharged.

The Quarry operations are confined above the water table during the entire lease period. If water is encountered due to rain water seepage, the same will be pumped out by 5HP water pumps to facilitate the Green belt development areas. Besides, the water will also be used for dust suppression on haul roads during Haulage of machineries.

**8.0 OTHER PERMANENT STRUCTURES (also shown in the map)****8.1 Habitations/ Villages Natham.**

There is no approved habitation within 300m radius from the periphery of the lease applied area.

8.2 Power Lines (HT/LT).

An abandoned LT Line is located on the Northeastern side. No electricity supply for this line then LT line will be shifted before the lease execution.

8.3 Water bodies (river, pond, lake, odai, canal, etc.,).

10m safety distance maintained by Odai from Eastern side of the lease applied area.

8.4 Archaeological/ historical monuments.

There is no Archaeological/ historical monuments within 500m radius from the lease applied area.

8.5 Road (NH, SH others).

The Nearest National Highway (NH-67) Coimbatore – Ooty which is about 3.0km from the Western side of the lease applied area.

The State Highway (SH-168) Karamadai – Annur which is about 4.0km from the Northeastern side of the lease applied area.

8.6 Places of worships.

There is no place of worships within the radius of 500m from the lease applied area.

8.7 Reserved forest/ forest/ social forest/ wild life sanctuary etc.

There is no Reserve forest/forest/social forest/ wildlife sanctuary within 500m radius of the lease applied area.



SALIENT FEATURES

S. No	Salient Futures Present around site	Prescribed safety distance	Actual Distance from the site																				
1.	Railways, Highways, Reservoirs or Canal	50m	<p>Railway line – 2.8km (Coimbatore – Ooty)Northwestern side.</p> <p>Highways - (NH-67) Coimbatore – Ooty which is about 3.0km from the Northwestern side of the lease applied area.</p> <p>River – River is passing about 3km from the Northwestern side and Gowsika River is passing 6.5km from Southeastern side of the lease applied area.</p> <p>Canal - No Canal within 1.0km radius.</p> <p>Reservoir - No Reservoir within 10.0km radius.</p>																				
2.	Village Road	10m	Village road is 370m from the Eastern side of the area.																				
3.	Habitation/ Village	300m	<p>There is no approved habitation within 300m radius from the periphery of the lease applied area. Actual distance is clearly marked in the Plate No.I-B.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S.No</th> <th>Name of the Village</th> <th>Approximate distance & Direction from lease applied area</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Onnipalayam</td> <td>1.0km - NE</td> </tr> <tr> <td>2.</td> <td>Sengalipalayam</td> <td>2.5km - SE</td> </tr> <tr> <td>3.</td> <td>Kalipalayam</td> <td>2.0km - SW</td> </tr> <tr> <td>4.</td> <td>Bilichi</td> <td>3.5km -NW</td> </tr> </tbody> </table>	S.No	Name of the Village	Approximate distance & Direction from lease applied area	1.	Onnipalayam	1.0km - NE	2.	Sengalipalayam	2.5km - SE	3.	Kalipalayam	2.0km - SW	4.	Bilichi	3.5km -NW					
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4.	Bilichi	3.5km -NW																					
4.	Adjacent Land	7.5m	<p>North - S.F.No.1121/1 & 1118/1</p> <p>East - S.F.No.1112 & 1111</p> <p>South - Village No.6 Vellamadai</p> <p>West - S.F.No.1120/4A & 1121/4A</p> <p>7.5m safety distance maintained by adjacent Patta lands.</p>																				
5.	Power House, EB line (HT & LT Line)	50m	<p>There is no approved habitation within of 300m the radius from the periphery of the lease applied area.</p> <p>H.T.Line – An abandoned LT Line is located on the Northeastern side. No electricity supply for this line. LT line will be shifted before the lease execution.</p>																				
6.	Boundaries of the permitted area	7.5m & 10m	<p>The boundaries of the permitted areas is as follows:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Direction</th> <th>S.F.Nos</th> <th>Classification</th> <th>Safety Distance</th> </tr> </thead> <tbody> <tr> <td>North</td> <td>1121/1 & 1118/1</td> <td>Patta Land</td> <td>7.5m</td> </tr> <tr> <td>East</td> <td>1112 & 1111</td> <td>Patta Land/Odai</td> <td>10m</td> </tr> <tr> <td>South</td> <td>Village No.6 Vellamadai</td> <td>Patta Land</td> <td>7.5m</td> </tr> <tr> <td>West</td> <td>1120/4A & 1121/4A</td> <td>Patta Land</td> <td>7.5m</td> </tr> </tbody> </table>	Direction	S.F.Nos	Classification	Safety Distance	North	1121/1 & 1118/1	Patta Land	7.5m	East	1112 & 1111	Patta Land/Odai	10m	South	Village No.6 Vellamadai	Patta Land	7.5m	West	1120/4A & 1121/4A	Patta Land	7.5m
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West	1120/4A & 1121/4A	Patta Land	7.5m																				



Mining Plan

Bilichi (E-W) Roughstone and Gravel Quarry

7.	Reserve forest	50m	There is no reserve forest within 50m radius of the lease applied area.
8.	Protected area / ECO sensitive area/Wild Life Sanctuary	10km	Eco Sensitive area is located at 9.2km from Western side of the lease applied area.

9.0 EMPLOYMENT POTENTIAL & WELFARE MEASURES

9.1 Employment potential (skilled, semi skilled, un skilled)

The following manpower's are proposed in the mining plan to carry out the day-to-day quarrying activities, the same employment is maintaining aimed at the proposed production target and also to comply with the statutory provisions of the Metalliferous mines regulations, 1961.

a. Skilled labour

Mine Foreman	:	1
Blaster/mate	:	1
Excavator – Operator & Driver	:	5
Jack hammer operator	:	16

b. Semi-skilled

Watchman	:	1
----------	---	---

c. Unskilled

Labour & Helper	:	3
Cleaner	:	3
Total	:	30

Allowing 10% absenteeism the man power would be around 27, the above manpower is adequate to meet out the production schedule and the machinery strength envisaged in the mining plan and to comply with the statutory provisions of the Mines Safety Regulations. It is been ensured that the labor will not be employed less than 18 years, **No child labour** will engaged or entertained for any kind of quarrying operations. All the labors engaged for quarrying operations will be insured during the quarry lease period.

9.2 Welfare Measures

a) **Drinking Water**

Packaged drinking water is available from the nearby approved water vendors in Onnipalayam which is about 1.0km from the Northeastern side of the area. Drinking water shall be readily available at conveniently accessible points during the whole of the working shift.

b) **Sanitary Facilities**

Hygienic modern sanitary facilities will be constructed with in the safety barriers of lease applied area as semi permanent structure and it will be maintained periodically.

c) First aid facility

First aid kits are kept in Mines office room, in case of such eventuality is the victim will be given first aid immediately at the site and injured person will be taken to the hospital. Hospital is available at distance of 5.5km Northwestern side in Karamadai by a vehicle earmarked for the purpose the competent and statutory foreman/permit manager/mate will be in charge of first aid.

d) Labour Health

Periodically medical check up related to occupational health safety will be conducted to all the workers in Applicant own cost.

e) Precautionary safety measures to the labourers



- Helmets,
- Mine Goggles,
- Ear plugs,
- Ear muffs,
- Dust mask,
- Reflector jackets
- Safety Shoes

As personal protective device as per the specification approved by Director of mines safety. Periodically medical check-up will be conducted for all workers for any mine health related problems. Proper training and vocational education will be given by qualified and experienced safety officer to all the employees about the safety and systematic Roughstone quarrying operations. The drillers and workers will be sent for vocational training periodically, to carry out the quarrying operations scientifically and to safe guard the men & machinery and to create awareness about conventional opencast quarrying operations.

**PART – B****10.0 ENVIRONMENT MANAGEMENT PLAN****10.1 Existing Land use pattern**

The quarry lease applied area exhibits slightly elevated topography. The area is a dry barren land devoid of Agriculture and Habitations. The land is not used for any specific vegetation.

LAND USE TABLE-8

Description	Present area in (ha)	Area at the end of this Quarrying period (ha)
Quarrying Pit	Nil	3.71.8
Infrastructure	Nil	0.03.0
Roads	Nil	0.05.0
Green Belt	Nil	0.42.4
Unutilized Area	4.62.5	0.40.3
Grand Total	4.62.5	4.62.5

10.2 Water Regime

It is a simple opencast quarry operation. The quality of water will not be affected due to this quarrying operation. However, mitigation measures will be carried out like Garland drains constructed on all sides of quarry pit to avoid rain water entering into the pit.

The waste water discharged to water bodies will be met the standard prescribed under the Environment (Protection) Act – 1986 by The Ministry of Environment, Forest and Climatic change.



10.3 Flora and Fauna:

TABLE-9

List of Flora

S.No	Name of the plant (Scientific)	Family Name	Common Name	Habit	Picture
1.	Calotropis gigantea	Asclepiadaceae	Crown Flower, Erukku	Shrub	
2.	Borassus flabellifera	Arecaceae	Palmyra Palm	Tree	
3.	Azadirachta indica	Meliaceae	Neem, Vembu	Tree	
4.	Acacia nilotica	Mimosaceae	Babul, Karuvelam	Tree	
5.	Aloe vera	Liliaceae	Kathalai	Herb	

List of Fauna

S.No.	Scientific Name	Common Name	Picture
1.	Acraea terpsicore	Tawny coster	
2.	Eumenus	Wasp	
3.	Carausius sp	Stick insect	
4.	Aranea sp	Spider	
5.	Hieroglyphus sp	Grasshopper	

**10.4 Climatic Conditions**

The area receives rainfall of about 709mm/annum and the rainy season is mainly from Oct-Dec during monsoon. The summer is hot with maximum temperature of 35°C and winter encounters a minimum temperature of 18°C.

10.5 Human settlement

There are few villages located in this area within 5km radius, the approximate distance and population are given below:

TABLE – 10

S.No	Name of the Village	Approximate distance & Direction from lease applied area	Approximate population
1.	Onnipalayam	1.0km - NE	900
2.	Sengalipalayam	2.5km - SE	700
3.	Kalipalayam	2.0km - SW	500
4.	Bilichi	3.5km - NW	400

Basic human welfare Amenities such as Health Centre, Schools, Communication Facilities, and Commercial Centres etc are available at Karamadai located at a distance of 5.5km on the Northwestern side of the area.

10.6 Plan for air, dust suppression

The air quality will be affected by the Suspended Particulate Matter (SPM) generated by the blasting, jack hammer drilling, Loading and unloading during the Roughstone quarry operation.

The following Mitigative measures will be carried out

- Mist Water spraying will be carried out by means of water sprinklers to suppress the dust emission in the Haul roads.
- Vegetations will be formed on the non quarrying area.
- The Roughstone will be fully covered by the Taurpaulin during transportation to avoid the spillage of materials.

Air quality will be monitored periodically as per Norms and Mitigative measures carried out to prevent dust and Air propagation in to air. The estimated budget for dust suppression would be around **Rs.52,000/year**.



10.7 Plan for Noise level control.

The noise level is increased due to the excavation, Drilling, Blasting and Transportation.

Engineering Noise control:

Noise will be created due to the usage of Machineries and Vehicles. The Noise will be controlled in the following manner.

- Selection of new low – noise equipment's is proposed to be deployed for the Roughstone quarry operation.
- Modifications of older equipment.
- Implementation of effective preventive maintenance which reduces noise level more than 50%.
- Developing Green belts which act as Acoustic barrier, pollution absorbent and noise controller.
- The drivers will be strictly instructed to move the vehicle in speed not exceeding 40km per hour during transportation.
- Sentries with flags & whistle will be posted in village road junction and populated area to control and regulate traffic.

Shallow holes of 32mm diameter and maximum depth of 1.5m will be drilled and conventional low power explosives such as Slurry Explosives, ordinary safety fuse will be used for Roughstone. Hence, ground vibration and noise pollution ie., minimal and restricted within the quarry working area.

Noise level monitoring and other Mitigation measures will be carried out to reduce Noise and Vibration. The estimated budget for Noise level monitoring would be around **Rs.2,000/Year**.

10.8 Environment impact assessment statement describing impact of mining on the next five years

In the mining plan proposed for a production of Roughstone and Gravel does not involve deep hole drilling and blasting. Such limited mining activity is not likely to cause any impact adversely on the environment. As far as pollution of air, water and noise concerned, the environment impact studies will be conducted as per EIA notification issued by MoEF & CC. It is B2 Category mine. The estimated budget would be around **Rs.3,80,000/-**.

10.9 Proposal for waste management

There is no waste anticipated in this Roughstone and Gravel quarrying operation. The entire quarried out materials will be utilized (100%).



10.10 Proposal for reclamation of land affected during mining activities and at the end of mining (refilling/ fencing etc.)

In the mining plan only to a maximum depth of 22m below ground level has been envisaged as workable depth for safe & economic mining during entire lease period. Hence, after quarry reaches the ultimate pit limit of 22m depth below the ground level, fencing will be constructed around the quarried pits to prevent inadvertent entry of the public and cattle. There is no proposal for reclamation and rehabilitation. The barbed wire fencing cost would be around **Rs.2,00,000/-**.

10.11 Programme of Greenbelt development (indicate extend, number, name of species to be afforested).

7.5m & 10m safety barrier and Nearest Panchayat Roads has been identified to be utilized for Greenbelt appropriate native species of Neem/ Casuarina trees will be planted in a phased manner as described below.

TABLE – 11

Year	No. of trees proposed to be planted	Survival %	Area to be covered sq.m	Name of the species	No. of trees expected to be grown
I	95	80%	848	Neem/ Casuarina	76
II	95	80%	848	Neem/ Casuarina	76
III	95	80%	848	Neem/ Casuarina	76
IV	95	80%	848	Neem/ Casuarina	76
V	95	80%	848	Neem/ Casuarina	76

Nearly 4,240sq.m area is proposed to be used under Greenbelt by planting 95Nos of Neem/ Casuarina trees every year with an anticipated survival rate of 80%. (Refer Plate No.III). The estimated budget for plantation and maintenance of Green belt development would be around **Rs.47,500/-** for the period of five years.

10.12 Proposed financial estimate/ budget for (EMP) environment management:

Budget Provision for the entire quarrying period

TABLE -12

S.No	Monitory and Analysis Description	Rate per location	No. of location	Total Charges/ six months	Total Charges/ year
1	Ambient air quality monitoring	6500	4	26000	52000
2	Noise level monitoring	250	4	1000	2000
3	Ground vibration monitoring	1000	2	2000	4000
4	Water sampling and analysis	9000	1	9000	18000
Total EMP Cost/ year					76,000

The EMP cost would be around **Rs.3,80,000/-** for the period of five years.



Mining Plan

Bilichi (E-W) Roughstone and Gravel Quarry

A. Project cost/ investment		
i) Land cost	The Land value as per the Government Guideline is cost is calculated as follows, 4.62.50ha X Rs.14,90,500/ha = Rs.68,93,563/- (source : https://tnreginet.gov.in/portal/)	=Rs.68,93,563/-
ii) Machinery to be used	The following machineries are proposed to meet out the productions. Excavator attached with rock breaker, Tipper, Tractor mounted compressor With jack Hammer and loose tools (Rental Basis)	=Rs.30,00,000/-
iii) Refilling/ Fencing	Fencing will be constructed around the quarry pit to prevent the inadvertent entry of public and cattles cost would be around	= Rs.2,00,000/-
iv) Labourers shed	Labour sheds will be constructed as semi permanent structure. The cost would be around	= Rs.85,000/-
v) Sanitary facility	Adequate latrine and urinal accommodation shall be provided at conveniently accessible places. The cost would be around	= Rs.50,000/-
vi) Others items	First aid room & accessories	= Rs.50,000/-
vii) Drinking water facility for the labourers	Packaged drinking water will be provided for all the labours. Drinking water will be readily available at conveniently accessible points during the whole of the working shift the cost would be around	= Rs.1,00,000/-
viii) Sanitary arrangement	The latrine and urinal will keep clean and sanitary condition. The maintenance cost would be around	= Rs.50,000/-
ix) Safety kit	All the safety kit such as Helmet, Earmuffs, Goggles, Reflector Jackets, Safety shoes etc., will be provided to the workers by the applicant own cost which would be around	= Rs.85,000/-
x) Water sprinkling	Water will be sprinkled in the haul roads by water sprinklers the cost would be around	= Rs.1,00,000/-
xi) Greenbelt etc.	Greenbelt program will be carried out in the boundary barriers and Panchayat roads the cost would be around	= Rs.47,500/-
Total Project Cost		= Rs.1,06,61,063/-



Mining Plan

Bilicht (E-W) Roughstone and Gravel Quarry

B. EMP Cost :- (Per year)	
Air Quality monitoring	= Rs. 57,000/-
Water Quality Sampling	= Rs. 18,000/-
Noise Monitoring	= Rs. 2,000/-
Ground vibration test	= Rs. 4,000/-
Total Cost	= Rs. 76,000/-
Total EMP Cost for the five years period is Rs.3,80,000/-	
A+B=	
A. Project cost	= Rs.1,06,61,063/-
B. EMP Cost	= Rs. 3,80,000/-
Total Project Cost (A+B)	= Rs.1,10,41,063/-
The applicant Indents to involve corporate social responsibilities (CSR) activity like providing note books to nearby school, providing drinking water facilities to the nearby villages etc., at 2.5% from the total project cost the cost would be around Rs.2,76,500/-	
Total Project cost	= Rs.1,10,41,063/-
CSR Cost (2.5%)	= Rs. 2,76,500/-
Total cost	= Rs.1,13,17,563/-
(The Total cost of the project including EMP Cost is Rupees one crore thirteen lakhs seventeen thousand five hundred and sixty three only).	

**11.0 MINE CLOSURE PLAN****11.1 Steps proposed for phased restoration, reclamation of already mined out areas:**

There is no proposal for back filling, reclamation and rehabilitation. The quarried pits after the end of the life of lease will be fenced to prevent inadvertent entry of public and cattles. After treating the water the same will be utilized for agriculture purpose of the agriculture lands.

11.2 Measures to be under taken on mine closure as per Act & Rules:

Measure will be taken as per Act & Rules. There is no proposal for back filling, reclamation and rehabilitation. The quarry pit will be fenced by barbed wire to prevent inadvertent entry of public and cattle.

The quarried out pit will be allowed to collect rain and seepage water which will act as a temporary reservoir for storage. This water storage will enhance the static level and ground water and to recharge the nearby wells and also it will be used for irrigating the nearby agriculture lands.

11.3 Mitigation measure to be undertaken for safety and restoration/ reclamation of the already mined out area:

Air quality: (Air quality will be degrade due to the drilling, blasting, mining operation and transportation)

Mitigation measures:

Drilling will be carried out by wet drilling mode to control the dust propagation into the air. Blasting will be carried out on limited scale. Mist Water spraying on haul road is proposed to prevent the dust propagation into the air. Air quality will be monitored periodically as per norms.

NOISE AND VIBRATION: (The noise will be formed due to the drilling, blasting, loading and movement of Machineries)

Mitigation measures:

The applicant proposed to carry out the plantation all along the boundary to prevent Noise besides wet drilling will be practiced to prevent dust. All the machineries will be maintained in good conditions as per RTO and TNPCB Norms to prevent Noise, Smoke and vibration.



WATER REGIME:

Mitigation Measures:

The quarry operation proposed up to a maximum depth of 22m below ground level for the five year period, the proposed depth is well above the water table (summer in 55m and rainy seasons in 50m) for the five years plan period. Hence the water table will not be affected in anyway

The seepage and rain water will be drained out from the pit by the 5H.P motor pump and discharged through filter media to the Greenbelt area in the boundary barrier. The excess water will be sprayed on haul roads to prevent dust propagation in to the atmosphere. The Roughstone quarry will not produce any harmful toxic effluents.

HUMAN HEALTH & SAFETY: Dust will be limited due to the mine operation

All the labours have been provided with safety equipments like helmet, Safety Goggles, Ear muff, Hand Gloves, safety jacket, safety belt, Mine boots etc., by the applicant own cost as per Director of mines safety. The foreman/Permit Mines Manager will provide first aid for small & minor injuries. In case of any eventualities, the victim will be taken to the nearby hospital by the applicant vehicle which is always available in the mines office. The hospital is about 5.5km in Karamadai (NW).

Mining Plan



12.0 ANY OTHER DETAILS INTEND TO FURNISH BY THE APPLICANT

This Mining plan for Roughstone and Gravel quarry is prepared and amended Rules 41 & 42 of Tamilnadu Minor Mineral Concession Rules, 1959. The provisions of the Mines Act, Rules and Regulations and orders shall be complied with in the quarrying operations so that the safety off the mine, machinery and person will be well protected. Permission, relaxation or exemption wherever required for the safe and scientific quarrying of the deposit will be obtained from the Department of Mines Safety. Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the concerned Department.

Prepared by

[Signature]
 Dr.P.Thangaraju, M.Sc., Ph.D.,
 Qualified Person

Place: Salem

Date: 09.03.2019

**This Mining Plan is Approved
 subject to the conditions / stipulation
 & indicated in the Mining Plan Approval
 Letter No: 617/mires/2018, dt: 29/3/19
 office of the A.D, Geology & Mining Coimbatore**

**This Mining Plan is Approved based on the
 incorporation of the particulars specified
 in the letter of the commissioner of Geology
 and Mining, Chennai ref No: 3963/LC/2012
 Dated 19.11.2012 and subjected to further
 fulfillment of the condition laid down under
 Tamilnadu Minor Mineral Concession Rules 1959.**

[Signature]
 29/3/2019
**JOINT DIRECTOR AND
 ASSISTANT DIRECTOR (i/c)
 DEPARTMENT OF GEOLOGY & MINING
 COIMBATORE.**

[Signature]
 29/3/19



ANNEXURE T

ந.க.எண். 617/கனிமம்/2018

மாவட்ட ஆட்சியர் (பொ) அலுவலகம்,
புலியியல் மற்றும் சுரங்கத்துறை,
கோயம்புத்தூர், கோயம்புத்தூர், கேரளா
நாள்: 07.03.2019.

குறிப்பாணை

பேரூள்: கனிமங்களும் தவரிகளும் - கோயம்புத்தூர் மாவட்டம் - கோயம்புத்தூர் வடக்கு வட்டம் - பிளிச்சி (கி-மே) கிராமம் - புல எண்கள். 1120/4B-ல் 0.77.50 ஹெக்டேர், 1121/4B-ல் 0.48.50 ஹெக்டேர் மற்றும் 1119-ல் 3.36.50 ஹெக்டேர் ஆக மொத்தம் 4.62.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரண கற்கள் மற்றும் கிராவல் குவாரி செய்ய திரு.P.சித்தார்த்தாமௌலி என்பவருக்கு - குவாரி குத்தகை அனுமதி வழங்குவது - தொடர்பாக.

- பார்வை: 1. திரு.P.சித்தார்த்தாமௌலி, த/பெ.S.பழனிச்சாமி, 2/246, கண்ணார்பாளையம், காரமடை, கோயம்புத்தூர் மாவட்டம் என்பவரது மனு நாள் 03.12.2018.
2. இவ்வலுவலக இதே ந.க.எண் மற்றும் நாள். 07.12.2018.
3. கோயம்புத்தூர் வடக்கு சர் ஆட்சியர் (பொ) அவர்களின் கடித ந.க.எண். 3681/2018/அ3 நாள் 29.01.2019
4. இணை இயக்குநர் மற்றும் உதவி இயக்குநர்(பொ), புலியியல் மற்றும் சுரங்கத்துறை, கோயம்புத்தூர் தணிக்கை அறிக்கை நாள் 05.03.2019.

பார்வை 1-ல் கோயம்புத்தூர் மாவட்டம், காரமடை, கண்ணார்பாளையம், 2/246 என்ற முகவரியில் வசிக்கும் திரு.S.பழனிச்சாமி என்பவரின் மகன் திரு.P.சித்தார்த்தாமௌலி என்பவர் கோயம்புத்தூர் வடக்கு வட்டம், பிளிச்சி(கி-மே) கிராமம், புல எண்கள். 1120/4B-ல் 0.77.50 ஹெக்டேர், 1121/4B-ல் 0.48.50 ஹெக்டேர் மற்றும் 1119-ல் 3.36.50 ஹெக்டேர் ஆக மொத்தம் 4.62.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரணகற்கள் மற்றும் கிராவல் குவாரி செய்ய, குத்தகை உரிமம் கோரி விண்ணப்பித்துள்ளார்.

மேற்படி மனு தொடர்பாக, கோயம்புத்தூர் வடக்கு சர் ஆட்சியர்(பொ) மற்றும் கோயம்புத்தூர், புலியியல் மற்றும் சுரங்கத்துறை இணை இயக்குநர் மற்றும் உதவி இயக்குநர்(பொ), ஆகியோர் புலத்தணிக்கை மேற்கொண்டு கோயம்புத்தூர் மாவட்டம், காரமடை, கண்ணார்பாளையம், 2/246 என்ற முகவரியில் வசிக்கும்

திரு. S. பழனிச்சாமி என்பவரின் மகன் திரு. P. சித்தார்த்தமௌலி என்பவருக்கு கோயம்புத்தூர் வடக்கு வட்டம், பிளீச்சி (கி-மே) கிராமம், புல எண்கள், 1120/4B-ல் 0.77.50 ஹெக்டேர், 1121/4B-ல் 0.48.50 ஹெக்டேர் மற்றும் 1119-ல் 3.36.50 ஹெக்டேர் ஆக மொத்தம் 4.62.50 ஹெக்டேர் பரப்பளவுள்ள பட்டா பூமியில் சாதாரணகற்கள் மற்றும் கிராவல் குவாரி செய்ய கீழ்க்கண்ட நிபந்தனைகளுடன் பரிந்துரை செய்துள்ளார்கள்.

நிபந்தனைகள்

1. அருகிலுள்ள பட்டா நிலங்களுக்கும் மற்றும் பொது மக்களுக்கும், எவ்வித இடைபுறம் இடம் தவிர்ப்பணி மேற்கொள்ள வேண்டும்.
2. அருகில் உள்ள பட்டா நிலத்திற்கு 7.5 மீட்டர் மற்றும் பட்டா வண்டிப்பாதைக்கும், சிறிய ஒடைக்கும் 10 மீட்டர் பாதுகாப்பு இடைவெளி விட்டு குவாரிப்பணி மேற்கொள்ள வேண்டும்.
3. புல எண் 1119-ன் வடகிழக்கே செல்லும் பயன்பாட்டில் இல்லாத மின் பாதையை குத்தகை உரிமம் பெறுவதற்கு முன்பு மனுதாரர் அப்புறப்படுத்திக் கொள்ள வேண்டும்.
4. மெதுகேற்றக்கூடிய கிராளைட் கற்கள் வெட்டியெடுக்க கூடாது.
5. குடிநீரை தொழிலாளர்களை வேலைக்கு அளித்தல் கூடாது.

அனுமதி கோரும், புல எண்கள், 1120/4B மற்றும் 1121/4B ஆனது பட்டா எண்கள் முறையே 3134 மற்றும் 3133-ன் படி திரு. பழனிச்சாமி என்பவரின் மகன் திரு. சித்தார்த்தமௌலி (மனுதாரர்) மற்றும் திரு. குானசேகரன் என்பவரின் மகன் திரு. சிதார்த்த என்பவர்கள் பெயரில் கூட்டுப்பட்டாவாக கிராம கணக்கில் தாக்கலாகியிருந்து, மற்றும் புல எண் 1119 ஆனது பட்டா எண் 3239-ன் படி திரு. குானசேகரன் என்பவரின் மனைவி திருமதி சந்திரா மற்றும் பழனிச்சாமி என்பவரின் மனைவி திருமதி ஜெயலட்சுமி ஆகியோர்கள் பெயரில் கூட்டுப்பட்டாவாக கிராம கணக்கில் தாக்கலாகியிருந்து, மேற்படி படித்தில் மூலம் ஆகிய மனுதாரர் குத்தகை அனுமதி அளிக்கப்படுகின்ற நாளிலிருந்து இந்த வருடத்திற்கு மேற்படி பூமியில் மனுதாரர் சாதாரணகற்கள் மற்றும் கிராவல் வெட்டியெடுக்க கூட்டு பட்டாதாரர்களான திருமதி சந்திரா மற்றும் திருமதி ஜெயலட்சுமி (புல எண் 1119) ஆகியோர்கள் மனுதாரருக்கு சம்பந்த கடிதம் அளித்துள்ளார்கள். எனவே மேற்படி பூமியில் மனுதாரர் குவாரி குத்தகை உரிமம் பெற தகுதியடைபவர் ஆவார்.

எனவே சார் ஆட்சியரிடமிருந்து கோயம்புத்தூர் வடக்கு வட்டம் கோயம்புத்தூர் பூமியில் மற்றும் சாங்கத்தலைஸ் இடையே இயக்குதல் மற்றும் உதவி இயக்குதல்கள் ஆகியோடு பலத்தணிக்கை துறைக்கையின் ஆய்வளையில் கோயம்புத்தூர் மாவட்டம், காரமடை, சண்ணார்பாளையம், 2246 என்ற முகவரியில் வசிக்கும்



திரு. S. பழனிச்சாமி என்பவரின் மகனும் திரு. P. சித்தார்த்தமௌலி என்பவருக்கு கோயம்புத்தூர் வடக்கு வட்டத்தில் (சு.பெ. கிராமம், புல எண்கள் 1120/4B-ல் 0.77.50 ஹெக்டேர், 1121/4B-ல் 0.48.50 ஹெக்டேர் மற்றும் 1119-ல் 3.36.50 ஹெக்டேர் ஆக மொத்தம் 4.62.50 ஹெக்டேர் பரப்பளவுள்ள மட்டா பூமியில் 5 (ஐந்து) ஆண்டுகளுக்கு சாதாரண கல் வெட்டியெடுக்கவும் மற்றும் 3 (மூன்று) ஆண்டுகளுக்கு கிராவல் வெட்டியெடுக்கவும் மேலே கண்ட நிபந்தனைகளுக்குட்பட்டு குவாசி தத்தகை வழங்குவதற்குரிய நிஸ்பரப்பாக (Precise Area Communication) கருதப்படுகிறது.

மேலும், தமிழ்நாடு சிறுகனிம சலுகை விதிகள்-1939 விதி எண். 41 மற்றும் 42-ன் படி குவாரிப்பணி மேற்கொள்வது தொடர்பாக வலிவு காங்க நீட்டத்தனை 90 தினங்களுக்குள் சமர்ப்பிக்குமாறும், கற்றுச்சூழல் அனுமதி பெற்று சமர்ப்பிக்கவும் மனுதாரரை கேட்டுக் கொள்ளப்படுகிறது.

ஸ்.XXX
மாவட்ட ஆட்சித் தலைவர்
கோயம்புத்தூர்.

பெறுதல்:
திரு. P. சித்தார்த்தமௌலி,
சு.பெ. S. பழனிச்சாமி,
2/246, கண்ணார்பாளையம்,
காரமடை,
கோயம்புத்தூர் மாவட்டம்

//உண்மை நகல் / உத்திரவுப்படி//

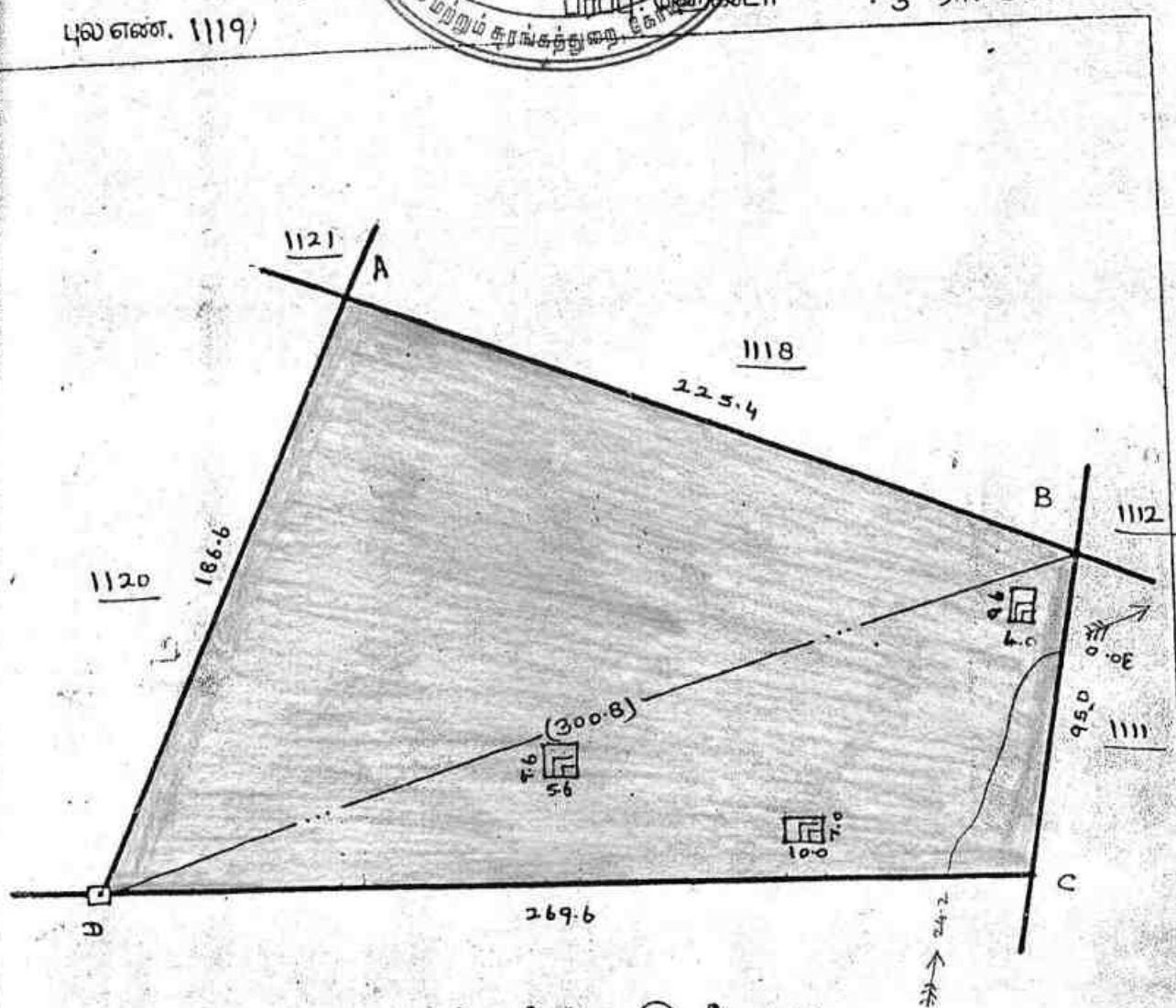
(Handwritten Signature)
7.3.2019
மாவட்ட ஆட்சித் தலைவருக்காக
கோயம்புத்தூர்.

(Handwritten Signature)
7/3/19

புல எண். 1119/



எண். 5
 ANNEXURE - II
 பெயர். 1118
 3 ஏ. 36.5



சீ.எண்: 6. வெள்ள மடை.

கிராம நிர்வாக அலுவலகம்
 3, பிளிச்சி (கிழக்கு)
 கோவை (வடக்கு)

LEASE APPLIED AREA

140.4	40.6	W
130.6	40.2	
70.2	9.4	W
60.4	10.0	W
(95.0)		
22.4	9.6	W
12.8	10.0	W
B		
(300.8)		
255.6	84.8	C

உரைஞர்
 வே. பி. சண்முகம்

அளவு. 1:2000 மி.நி.

15.4.57

மாவட்டம்.

தேசம் 49

வட்டம்.

தேசம் 49

புல எண். 1120

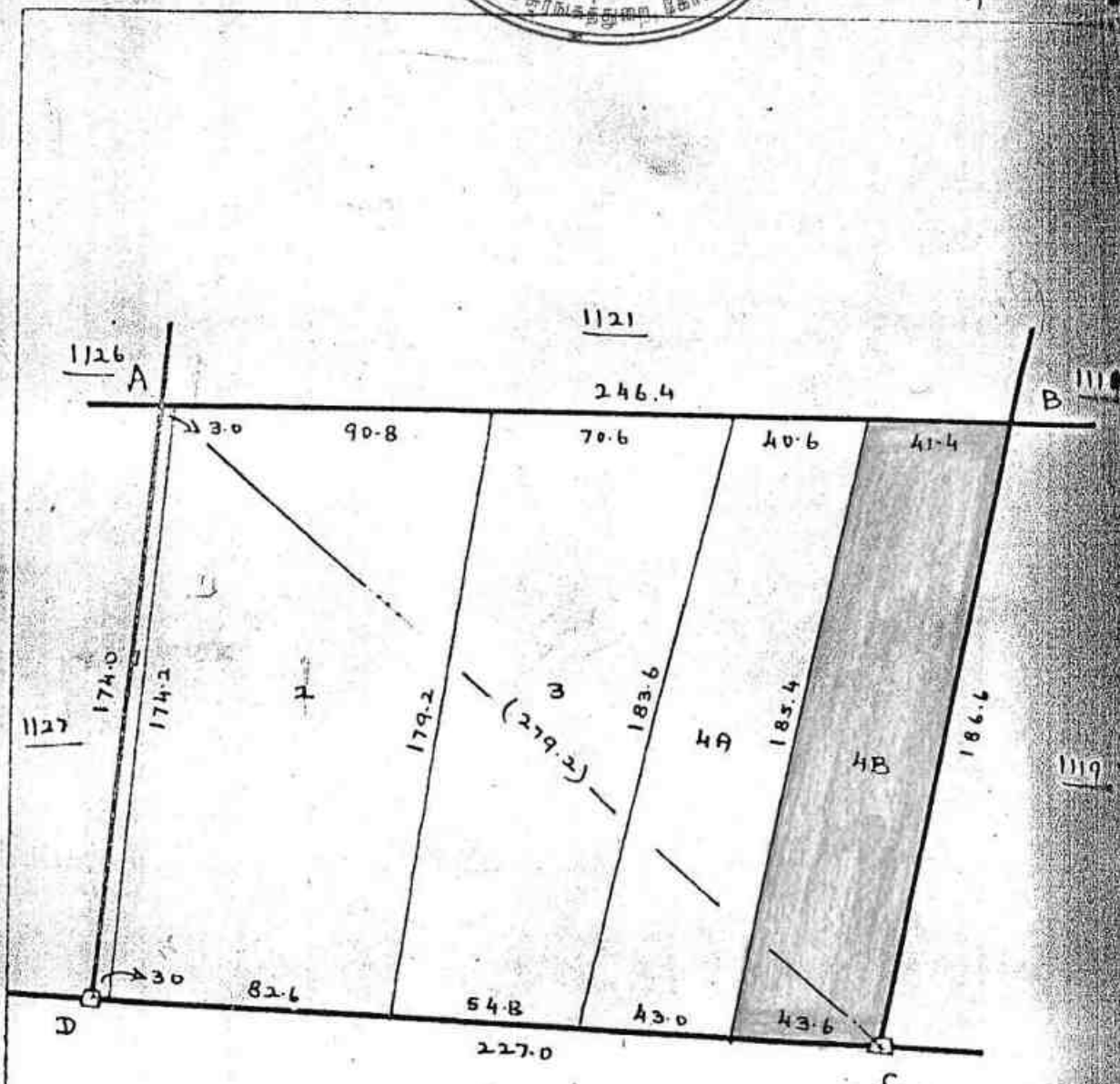


எண். 5

பிராமம்

பெயர். பி.சி.சி

4 மா 201



கி.எண்: 6 மாற்றல்கள்

2 கட்டிடங்கள்

சுயேச்சை
கிராம நிர்வாக அலுவலகம்
3, பிளாக்கி (கிழக்கு)
கோவை (வடக்கு)

LEASE APPLIED AREA

சுயேச்சை
செ. பி. சி. சி.
சுயேச்சை
6/4/37

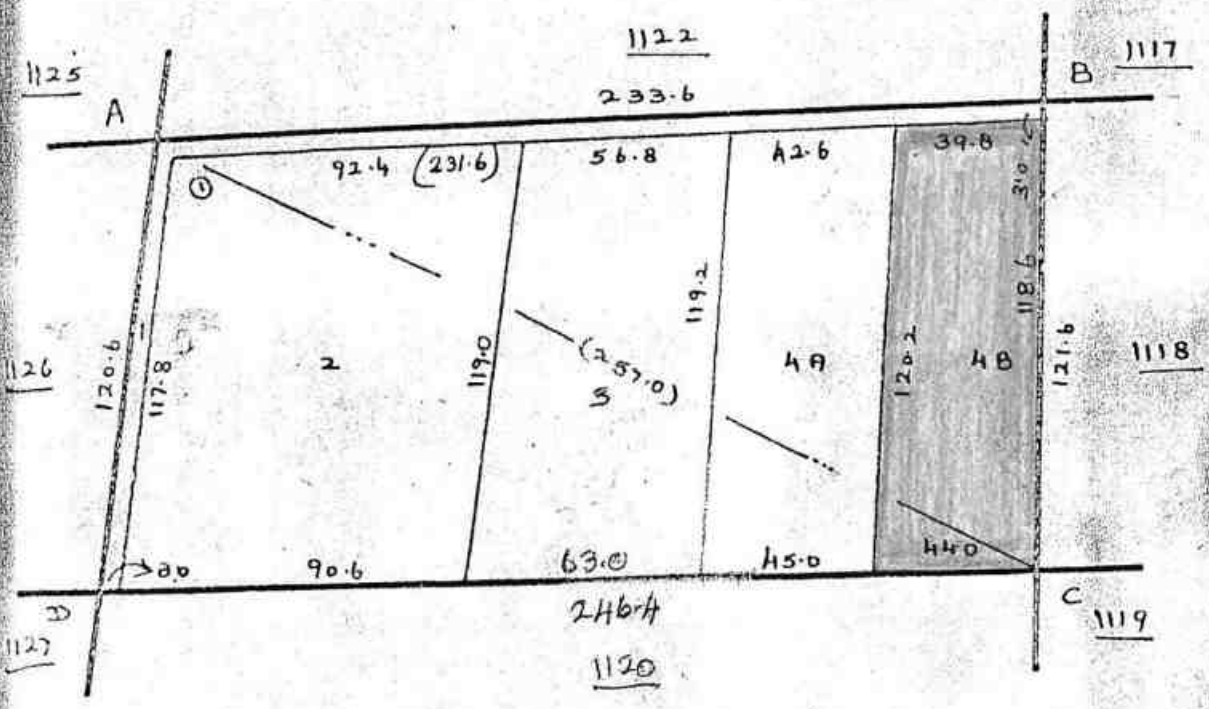
அளவு. 1:2000. கி.மீ.

சுயேச்சை
பி. சி. சி.
15.4.37



மூலம். கையம் புதிதா
 மூலம். கையம் புதிதா
 புல எண்: 1121)

எண். 5.
 பெயர். திருச்சி
 2 ஏர். 85.5



LEASE APPLIED AREA

(சுற்றுலா, மது, மின்துறை, மின்சாரத்துறை)
 உதவி இயக்குநர்

30/11/2000
 திருச்சி நிர்வாக அலுவலகம்
 திருச்சி (கிழக்கு)
 கோவை (வடக்கு)

			C	
			(257.0)	
1	1.0	4.8		
		A		

சுற்றுலா, மது, மின்துறை, மின்சாரத்துறை
 உதவி இயக்குநர்

திகதி: 15.04.2000

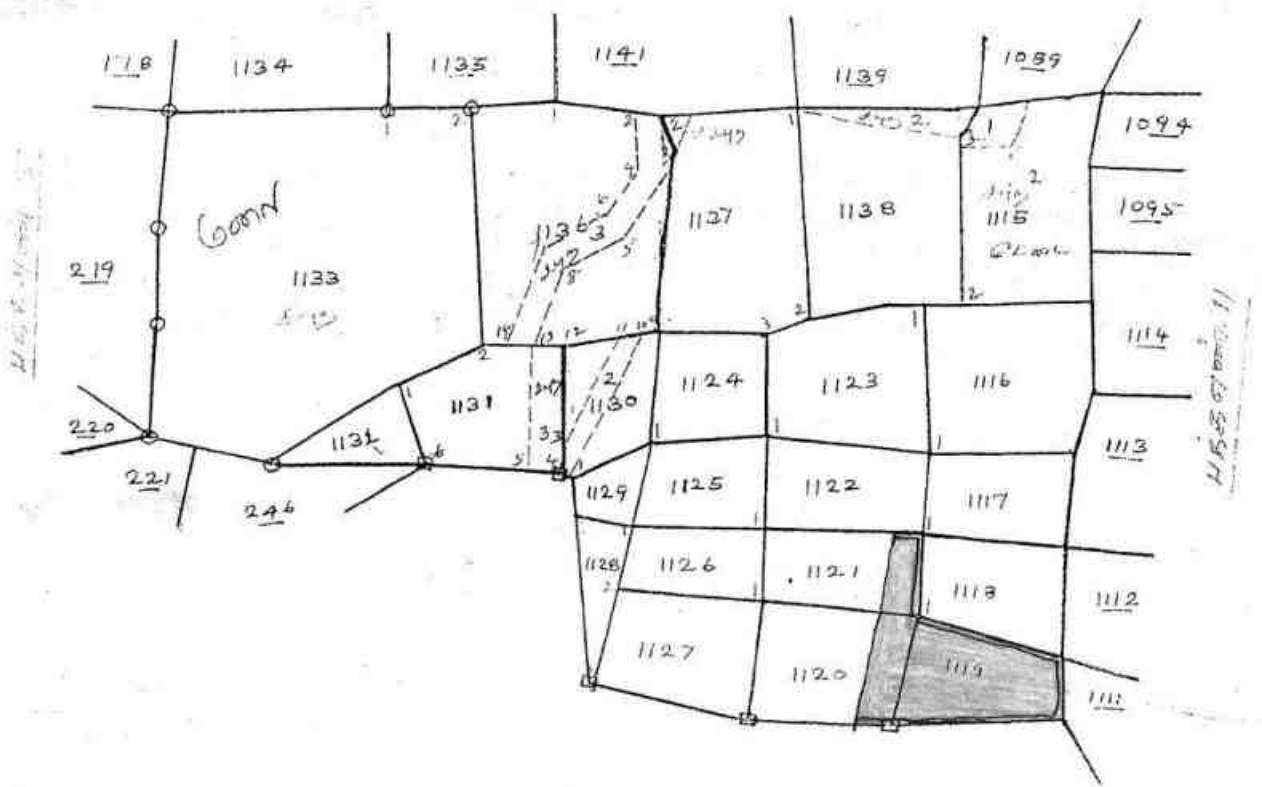
15/4/2000

Lo: 8045645210
 L Lo: 8045645210 (21.30)



1136 திட்டம் 12

1136 திட்டம்: 13



VELLAMADAI: NO.6

[Handwritten signature]
 கிராம பிளாட்டிங் அதிகாரி,
 கிராம பிளாட்டிங் அலுவலகம்,
 கிராம பிளாட்டிங் அலுவலகம்,
 கிராம பிளாட்டிங் அலுவலகம்

A. ஏக்கர் -
 B. ஏக்கர் - 30

LEASE APPLIED AREA

சான்றிதழ்
 17/4/2001



தமிழக அரசு
வருவாய்த் துறை



நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கோயம்புத்தூர்

வட்டம் : கோயம்புத்தூர் வடக்கு

வருவாய் கிராமம் : பிளிச்சி (கி-மே)

பட்டா எண் : 3289

உரிமையாளர்கள் பெயர்

1. ஞானசேகரன்
2. பழனிசாமி

மனைவி
மனைவி

சந்திரா
ஜெயலட்சுமி

		நன்செய்		புன்செய்		மற்றவை	
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை
புல எண்	உட்பிரிவு	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை
11:9	-	--	--	3 - 36.50	4.16	--	--
				3 - 36.50	4.16		

குறிப்பு 2 :



1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 12/02/005/03289/30512 என்ற குறிப்பு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 29-11-2018 அன்று 09:39:21 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்



தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கோயம்புத்தூர்

வட்டம் : கோயம்புத்தூர் வட்டக்கு

வருவாய் கிராமம் : பிளிச்சி (கி-மே)

பட்டா எண் : 3134

உரிமையாளர்கள் பெயர்

- | | | | |
|----|-----------|------|-------------------|
| 1. | பழனிசாமி | மகன் | சித்தார்த்தாமெளலி |
| 2. | ஞானசேகரன் | மகன் | ழீகாந்த் |

		நன்செய்		புன்செய்		மற்றவை	
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை
புல எண்	உட்பிரிவு	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை
1120	4B	--	--	0 - 77.50	0.96	--	--
				0 - 77.50	0.96		

குறிப்பு 2 :



- மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 12/02/005/03134/30561 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
- இத் தகவல்கள் 03-12-2018 அன்று 08:23:28 AM நேரத்தில் அச்சடிக்கப்பட்டது.
- கைப்பேசி கேமராவின் 2D barcode படிப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்.



தமிழக அரசு

வருவாய்த் துறை

நில உரிமை விபரங்கள் : இ. எண் 10(1) பிரிவு

மாவட்டம் : கோயம்புத்தூர்

வட்டம் : கோயம்புத்தூர் வடக்கு

வருவாய் கிராமம் : பிளிச்சி (கி-மே)

பட்டா எண் : 3133

உரிமையாளர்கள் பெயர்

1.	பழனிசாமி	மகன்	சித்தார்த்தாமெளலி
2.	ஞானசேகரன்	மகன்	ஸ்ரீகாந்த்

		நன்செய்		புன்செய்		மற்றவை	
		பரப்பு	தீர்வை	பரப்பு	தீர்வை	பரப்பு	தீர்வை
புல எண்	உட்பிரிவு	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை	ஹெக்ட - ஏர்	ரூ - பை
1121	4B	--	--	0 - 48.50	0.60	--	--
				0 - 48.50	0.60		

குறிப்பு 2 :



1. மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 12/02/005/03133/30550 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.
2. இத் தகவல்கள் 03-12-2018 அன்று 08:23:33 AM நேரத்தில் அச்சடிக்கப்பட்டது.
3. கைப்பேசி கேமராவின் 2D barcode படப்பான் மூலம் படித்து 3G/GPRS வழி இணையதளத்தில் சரிபார்க்கவும்

1	2	3	4	5	6	7	முதல் பாகம்					19	
							8	9	10	11	12		
1120	AB 1150 46 309						கொழும்பு	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.
1121	42 0440 60 309						கொழும்பு	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.	ம.ப.இ.ந.

ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந.

ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந. ம.ப.இ.ந.



அ-பதிவேடு விவரங்கள்

மாவட்டம் : கோயம்புத்தூர்
 வட்டம் : கோயம்புத்தூர் வடக்கு
 கிராமம் : பிளிச்சி (கி-மே)



1. புல எண்	1119	9. மண் வயனமும் ரகமும்	8.4
2. உட்பிரிவு எண்	-	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	1119	11. தீர்வை (ரூ - ஹெ)	1.24
4. பகுதி	-	12. புரப்பு (ஹெக்டேர் - ஏர்)	3 - 36.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	4.16
6. நிலத்தின் வகை	புஞ்சை	14. பட்டா எண்	3289
7. பாசன ஆதாரம்	-	15. குறிப்பு	கிணறுகள்
8. இரு போகமா	-	16. பெயர்	1.சந்திரா 2.ஜெயலட்சுமி

குறிப்பு 1:



1.

மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 10512 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள்



மாவட்டம் : கோயம்புத்தூர்
வட்டம் : கோயம்புத்தூர் வடக்கு
கிராமம் : பிளிச்சி (கி-மே)

1. புல எண்	1120	9. மண் வயளமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	4B	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	-4p	11. தீர்வை (ரூ - ஹெ)	1.24
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 77.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	0.96
6. நிலத்தின் வகை	புஞ்சை	14. புட்டா எண்	3134
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.சித்தார்த்தாமௌலி 2.ஸ்ரீகாந்த்

குறிப்பு 1:



1.

மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 10561 என்ற குறிப்பு எண்ணை உள்ளிடு செய்து உறுதி செய்துகொள்ளவும்.

அ-பதிவேடு விவரங்கள்



மாவட்டம் : கோயம்புத்தூர்

வட்டம் : கோயம்புத்தூர் வடக்கு

கிராமம் : பிளிச்சி (கி-மே)

1. புல எண்	1121	9. மண் வயனமும் ரகமும்	8 - 4
2. உட்பிரிவு எண்	4B	10. மண் தரம்	6
3. பழைய புல உட்பிரிவு எண்	-4p	11. தீர்வை (ரூ - ஹெ)	1.24
4. பகுதி	P	12. பரப்பு (ஹெக்டேர் - ஏர்)	0 - 48.50
5. அரசு / ரயத்துவாரி	ரயத்துவாரி	13. மொத்த தீர்வை (ரூ - பை)	0.60
6. நிலத்தின் வகை	பஞ்சை	14. பட்டா எண்	3133
7. பாசன ஆதாரம்	-	15. குறிப்பு	-
8. இரு போகமா	-	16. பெயர்	1.சித்தார்த்தாமெளலி 2.ஸ்ரீகாந்த்

குறிப்பு 1:



1.

மேற்கண்ட தகவல் / சான்றிதழ் நகல் விவரங்கள் மின் பதிவேட்டிலிருந்து பெறப்பட்டவை. இவற்றை தாங்கள் <http://eservices.tn.gov.in> என்ற இணைய தளத்தில் 10550 என்ற குறிப்பு எண்ணை உள்ளீடு செய்து உறுதி செய்துகொள்ளவும்.



தமிழ்நாடு தமிழ்நாடு TAMIL NADU

ஜி. சாந்தா 12AB 897178

சுண்ணாள்

2193

17-3-19

G. Chandra.

2/241, Kamarapalayam,
Karamedai, Cbe.

மு. தாள் விற்பனையாளர்
R.K.S. பில்டிங், பங்களாமேடு
மேட்டுப்பாளையம் - 641 301.
உரிமம். எண்: 7333/பி1/97/எ

சம்மதக்கடிதம்

1. கோயம்புத்தூர் மாவட்டம் 2/241, கண்ணார்பாளையம், சிக்காரம்பாளையம், கிராமம், காரமடை, என்ற விசாலத்தில் வசிக்கும் திரு. S ஞானசேகரன் மனைவி P. ஜெயலட்சுமி ஆகிய நபர்கள் எழுதிக்கொடுக்கும் சம்மதக் கடிதம் என்னவென்றால்,
2. கோயம்புத்தூர் மாவட்டம், 2/246, கண்ணார்பாளையம், சிக்காரம்பாளையம், கிராமம், காரமடை, என்ற விசாலத்தில் வசிக்கும் திரு. S பழனிசாமி மனைவி P. ஜெயலட்சுமி ஆகிய நபர்கள் எழுதிக்கொடுக்கும் சம்மதக் கடிதம் என்னவென்றால்,

கோயம்புத்தூர் மாவட்டம், கோவை வடக்கு, பிளிச்சி கிராமம் க.ச எண் 1119 ல் 3.36.5 ஹெக்டேர் பரப்பு காலையானது பட்டா எண் 3289 ன் படி எங்களுக்கு பாத்தியப்பட்டது. மேற்படி, கோயம்புத்தூர் மாவட்டம் 2/246 கண்ணார்பாளையம், சிக்காரம்பாளையம் கிராமம், காரமடை, கோயமுத்தூர் என்ற விலாசத்தில் வசிக்கும் திரு. பழனிசாமி மகன் சித்தார்த்தாமெளலி என்பவருக்கு கோயம்புத்தூர் மாவட்ட ஆட்சியர் அவர்களால் மேற்படி பூமியில் சாதாரணக்கற்கள் மற்றும் கிராவல் மண் எடுக்க அனுமதி வழங்க ஒப்புதல் அளிக்கப்பட்ட நாளிலிருந்து ஐந்து வருடத்திற்கு மேற்படி பூமியில் கிராவல் மண் வெட்டி எடுத்தல் செலவு சம்மதம் தெரிவிக்கிறோம்

இப்படிக்கு,



1. K.K. NATESAN, B.Com., B.L.
ADVOCATE & NOTARY
Coimbatore District
1, Jawans Bhavan, Ground Floor,
Coimbatore - 641 018.
Cell : 94437 10112

2. P. Jayal

भारतीय गैर न्यायिक

बीस रुपये

रु.20

7 MAR 2019
Rs.20

TWENTY
RUPEES

INDIA

INDIA NON JUDICIAL

தமிழ்நாடு தமிழ்நாடு TAMIL NADU

B.201- A.A. Thirupavai
52AB 901979

15490 மீதிகாந்த

2.11.18 கோவை-104

சம்மதக்கடிதம்

கோயம்புத்தூர் மாவட்டம் 2/241, கண்ணார்பாளையம், சிக்காரம்பாளையம் கிராமம், காரமடை, கோயமுத்தூர் மாவட்டம் என்ற விசாலத்தில் வசிக்கும் திரு. S ஞானசேகரன் மகன் திரு. G ஸ்ரீகாந்த ஆகிய நான் எழுதிக்கொடுக்கும் சம்மதக்கடிதம் என்னவென்றால்

கோயம்புத்தூர் மாவட்டம் கோவை வடக்கு பிளிச்சி கிராமம் க.ச எண் 1120 4பி ல் 0.77.5 ஹெக்டேர் பரப்பு காலையானது பட்டா எண் 3134 ன் படி மற்றும் க.ச எண் 1121 4பி ல் 0.48.85 ஹெக்டேர் பரப்பு காலையானது பட்டா எண் 3133 எனக்கு மற்றும் சித்தார்த்தாமெளலி என்பவருக்கும் கூட்டாக பாத்தியப்பட்டது. மேற்படி 2/246 கண்ணார்பாளையம், சிக்காரம்பாளையம் கிராமம், காரமடை, கோயமுத்தூர் என்ற விலாசத்தில் வசிக்கும் திரு. பழனிசாமி மகன் திரு. P சித்தார்த்தாமெளலி என்பவருக்கு கோயம்புத்தூர் மாவட்ட ஆட்சியர் அவர்களால் மேற்படி பூமியில் சாதாரணக்கற்கள் மற்றும் கிராவல் மண் எடுக்க அனுமதி வழங்க ஒப்புதல் அளிக்கப்பட்ட நாளிலிருந்து ஐந்து வருடத்திற்கு மேற்படி பூமியில் கிராவல் மண் வெட்டி எடுத்து செல்ல சம்மதம் தெரிவிக்கிறேன்.



A.A. Thirupavai
APPROPRIATE SECRETARY
Coimbatore District
Lawyer Block, Ground Floor,
Coimbatore - 641 018.
Cell: 94437 10112

இப்படிக்கு,

(Signature)



இந்திய அரசாங்கம்
Government of India

சிதார்த்தாமௌலி பழனிசாமி
Siddharthamouli Palanisamy
பிறந்த நாள் / DOB: 19/02/1992
ஆண்பால் / Male



5445 8330 7612

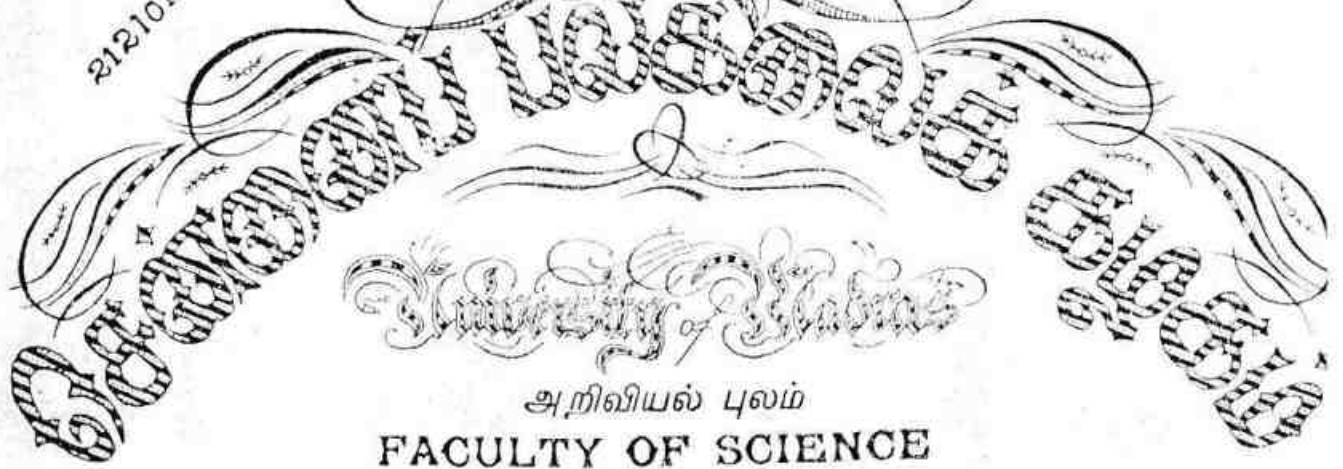
ஆதார் - சாதாரண மனிதனின் அதிகாரம்

முகவரி
90: பழனிசாமி, 2/246,
கண்ணார்பாளையம், காரமடை,
சிக்காரம்பாளையம், காரமடை,
கோயம்புத்தூர், தமிழ் நாடு.
641104

Address:
S/O: Palanisamy, 2/246,
KANNARPALAYAM,
KARAMADAI, Chikkarampalayam,
Karamadai, Coimbatore, Tamil
Nadu, 641104

5445 8330 7612

2121010



சென்னைப் பல்கலைக் கழகப் பேரவை..... 1994 ஆம்

ஆண்டு..... ஏப்ரல்..... மாதம் நடந்த..... கல்விமலியல்..... தேர்வில்

..... பெ. தங்கராசு..... என்பவர்..... டி.கே.ல்..... வகுப்பில்

தேர்ச்சி பெற்றார் என்று தக்க தேர்வுரைகள் காண்பனிடப்பட அறிவியல் நிறைஞர் எனலும் U.L.L. தலை அளவுக்குப் பல்கலைக் கழக இலாசீலாயுடன் வழங்குகிறது.

The Senate of the UNIVERSITY OF MADRAS hereby makes known that..... P. Thangaraju..... has been admitted to the Degree of Master of Science, he/she having been certified by duly appointed Examiners to be qualified to receive the same in..... Geology..... and was placed in the..... First..... Class, at the Examination held in April 1994.

Given under the seal of the University



செப்பாக்கம், Chennai

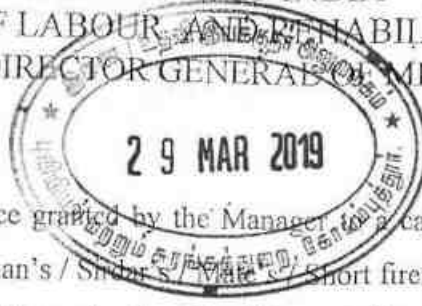
சென்னை, Madras
No. 1 25-01-1999

பதிவாளர்
Registrar

P. T. Jambur

ஆணை வேங்கு
Vice-Chancellor

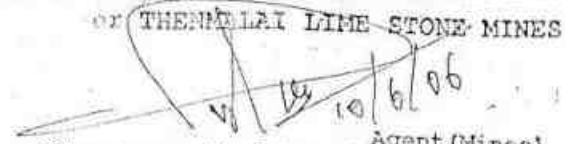
GOVERNMENT OF INDIA
MINISTRY OF LABOUR AND REHABILITATION
OFFICE OF THE DIRECTOR GENERAL OF MINES SAFETY



Certificate of Practical experience granted by the Manager, candidate for a Manager's / Surveyor's / Foremen's / Over man's / Shotfirer's / Short firer's/ Blaster's Certificate of competency (Restricted) examination under the Metalliferous Mines Regulations 1961.

I T.VENKATARAJAGOPALAN being the Mines Agent of M/S.LIMENAPH CHEMICALS, RAJAPALAYAM OF LIMESTONE PRODUCTS (Thenmali Limestone Mine) do hereby certify that Thiru. P.THANGARAJU, son of S.PERIASAMY (whose signature is appended) worked as a Geologist in the above mine from 02.05.1994 to 30.12.1999. During his term of work aforesaid, he has obtained practical experience as detailed overleaf. The duties connected with his work have involved continuous attendance at the mine and have been efficiently performed by him.

I believe him to be of good character and a fit and proper candidate to be examined for Certificate of Competency.

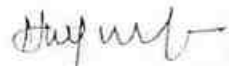
OR THENMALAI LIME STONE MINES

Agent (Mines)
(Signature with date and official Seal)
[T.VENKATARAJAGOPALAN]

Mines Agent:

P.O. : ARUKANGULAM

District : TIRUNELVELI

State : TAMIL NADU


(Signature of Candidate)

(State name of Mineral) : LIMESTONE


S.No	Particulars of practical Experience (a)	Place of Experience (b)	Period of practical experience(c)		Total Experience (e)		
			From	To	Yr.	Month	Day
01.	As a Trainee in Drilling Operation.	Semi Mechanised Opencast working	02.05.1994	15.07.1995	01	02	14
02.	As a Trainee in Blasting Operation.		16.07.1995	10.12.1996	01	04	25
03.	Exploration		11.12.1996	31.01.1998	01	01	20
04.	Surveying		01.02.1998	25.06.1998	00	04	25
05.	Sampling Quality control and		26.06.1998	20.07.1999	01	00	24
06.	Supervision in HEMM Operation.		21.07.1999	30.12.1999	00	05	10
GRAND TOTAL					05	07	28
(Five Years Seven Months Twenty Eight Days Only)							

AVERAGE MONTHLY OUTPUT (D) / AVERAGE DAILY EMPLOYMENT (e) DURING THE ABOVE PERIOD IS GIVEN BELOW :

In below ground working	In open – cast working	In all
Nil	35	35
Nil		

or THEENMALAI LIME STONE MINES


Signature of Candidate


Signature of Manager with District Seal
[T.VENKATARAJAGOPALAN]

Name of the Mine

Instructions :-

01. State clearly the nature of duties
02. State whether on surface, in open cast workings or below ground.
03. State specifically the period spent by the applicant in different mining operations, or surveying operations, as the case may be. If the employment has not been such as to involve continuous attendance of the applicant at the mine, it must be stated how many days a week he was employed at the mine, whether underground or above ground and in what capacity.
04. Delete if the mine is a Metalliferous mine.
05. Delete if the mine is a Coal mine.

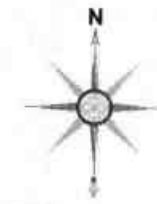
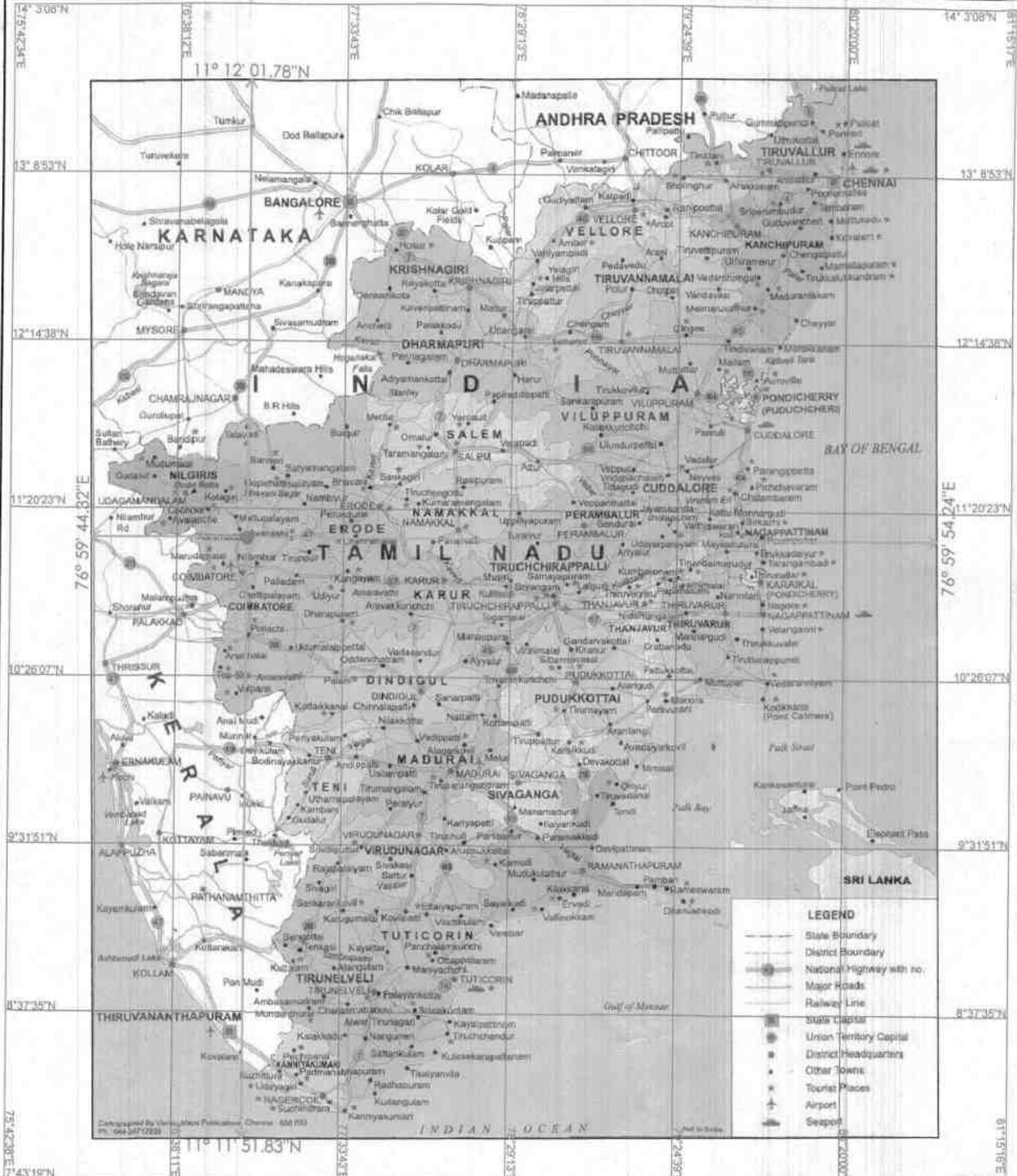


PLATE NO: I

DATE OF SURVEY : 08.03.2019

APPLICANT :

THIRU. P. SIDDHARTHAMOULI,
S/O. PALANISAMY,
NO.2/246, KANNARPALAYAM,
KARAMADAI,
COIMBATORE-641 104

LOCATION OF Q.L. APPLIED AREA:

S.F.Nos : 1119, 1120/4B & 1121/4B
EXTENT : 4.62.5 Ha
VILLAGE : BILICHI (EAST- WEST)
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMIL NADU

INDEX

Q. L.A. AREA : ●

TOPO SHEET NO. : 58 A/16

LATITUDE : 11° 11' 51.83"N to 11° 12' 01.78"N

LONGITUDE : 76° 59' 44.32"E to 76° 59' 54.24"E

LOCATION PLAN

SCALE 1:24,00,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
PLATE IS TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE BASED UPON THE LEASEMAP
AUTHENTICATED
BY STATE GOVERNMENT

P. Thangaraju
P. THANGARAJU, M.Sc., Ph.D.,
QUALIFIED PERSON

PLATE NO:I-A

DATE OF SURVEY : 08.03.2019

APPLICANT :

THIRU. P. SIDDHARTHAMOULI
S/O. PALANISAMY,
NO.2/246, KANNARPALAYAM,
KARAMADAI,
COIMBATORE-641 104



LOCATION OF Q.L. APPLIED AREA:

S.F.Nos : 1119, 1120/4B & 1121/4B
EXTENT : 4.62.5 Ha
VILLAGE : BILICHI (EAST- WEST)
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMIL NADU

INDEX

CONVENTIONAL SYMBOLS

Express highway with 4L with bridge with distance scale	
Roads, marked according to importance	
Roads, double carriageway according to importance	
Unimproved road, Cam base, Pavement with pebbles, Foot path	
Streams, with bank in-dip, undimbed, Canal	
Dam, masonry or brick-faced, with lock, Weir	
Water fall with water stream, with dam & scale, Tide way	
Submerged tanks, Small, Swampy, Ponds	
Wells, hand, windmill, Tube well, Spring, Trench, percolator, etc.	
Embankments, road or air, etc., Broken ground	
Railways, broad gauge, metre gauge, with station, under construction	
Railways, other gauges, metre, single with distance scale, etc.	
Mineral line or railway, etc., Cutting with tunnel	
Cableway with two cables, Pony power, etc.	
Bus services (T.M.) (State Government), (S.B. Government)	
Towers or Masts, (Masts), (Masts), etc.	
Not permanent, temporary, Tower, Antennae	
Towers, Church, Church, Mosque, Light, Tower, etc.	
Lighthouses, Lightships, Buoy, Lighted, unlighted, Anchorage	
Wire, Wire, etc., etc., etc.	
Power stations, other, etc., etc., etc., etc., etc., etc.	
Iron, unworked, worked, Surveyed, etc.	
Boundary, International	
Walls, permanent, unworked, etc.	
Walls, unworked, etc., etc., etc.	
Country, etc., etc., etc., etc.	
Height, triangulation, station, etc., etc., etc.	
Spot, etc., etc., etc., etc., etc., etc.	
Post office, Telegraph office, Overhead tank, etc.	
Post House or Inspection, longline, Coal House, Poles, etc.	
Gravelly ground, Forest, reserved, etc.	
Special names, administrative, locality, etc.	
Hospital, Dispensary, Veterinary, Hospital, Dispensary, etc.	
Telephone, Helium, Tower, etc.	
Power line, with poles, unworked, with poles, unworked	

TOPO SKETCH OF QUARRY LEASE APPLIED AREA FOR 10Km RADIUS

SCALE- 1:100000

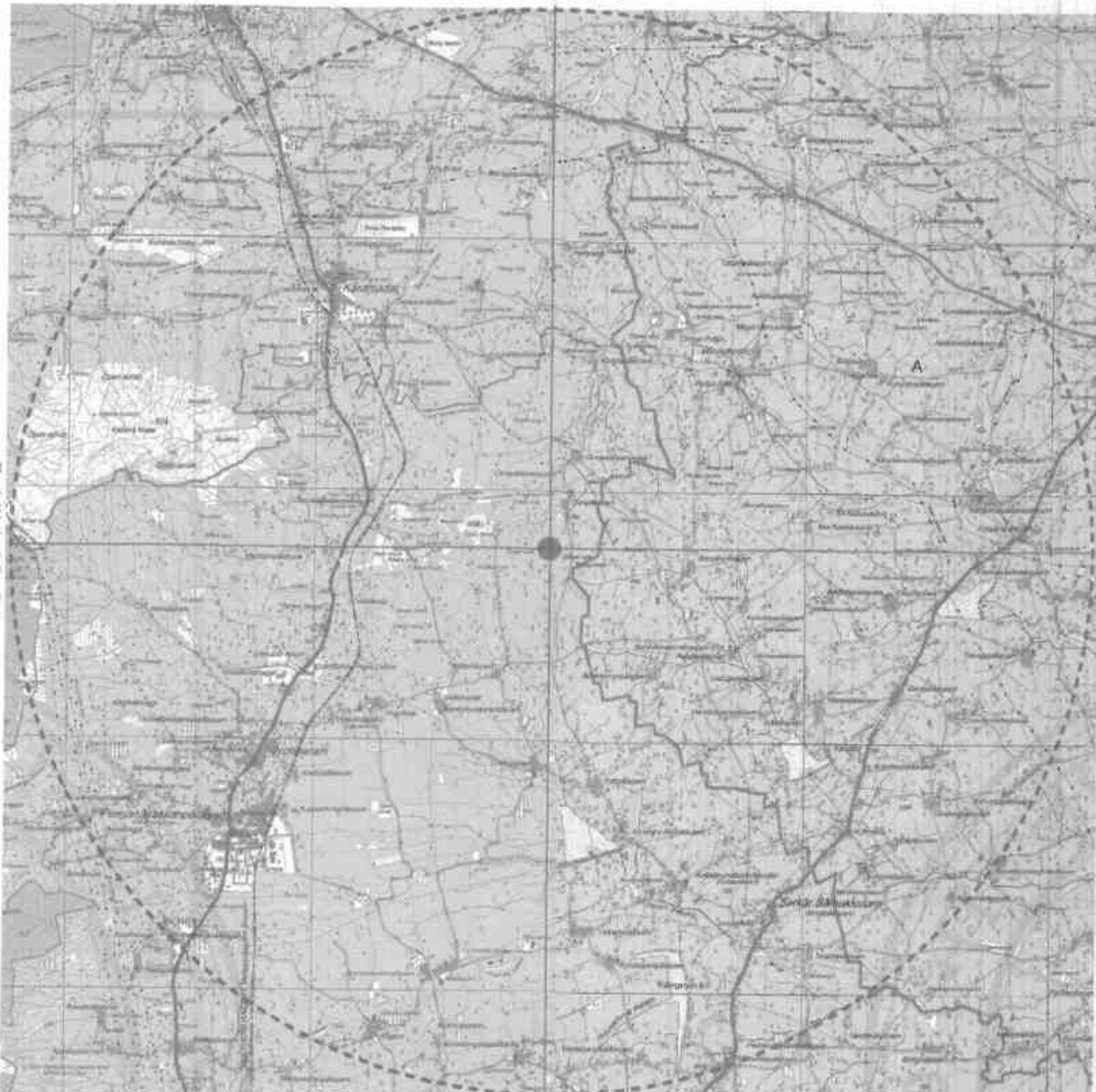
PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASEMAP AUTHENTICATED BY STATE GOVERNMENT

[Signature]
P. THANGARAJU, M. SC, Ph. D.,
QUALIFIED PERSON



11° 17' 27.14"N



76° 54' 14.77"E

77° 05' 23.80"E

11° 06' 26.43"N

TOPO SHEET NO. : 58 A/16

LATITUDE : 11° 11' 51.83"N to 11° 12' 01.78"N

LONGITUDE : 76° 59' 44.32"E to 76° 59' 54.24"E

10KM RADIUS :



Q.L. APPLIED AREA :



LANDUSE PATTERN	
DESCRIPTION	PERCENTAGE
ROADS	(10%)
HABITATION	(10%)
TREES	(20%)
AGRICULTURAL LAND	(45%)
PIT\ODAI	(15%)

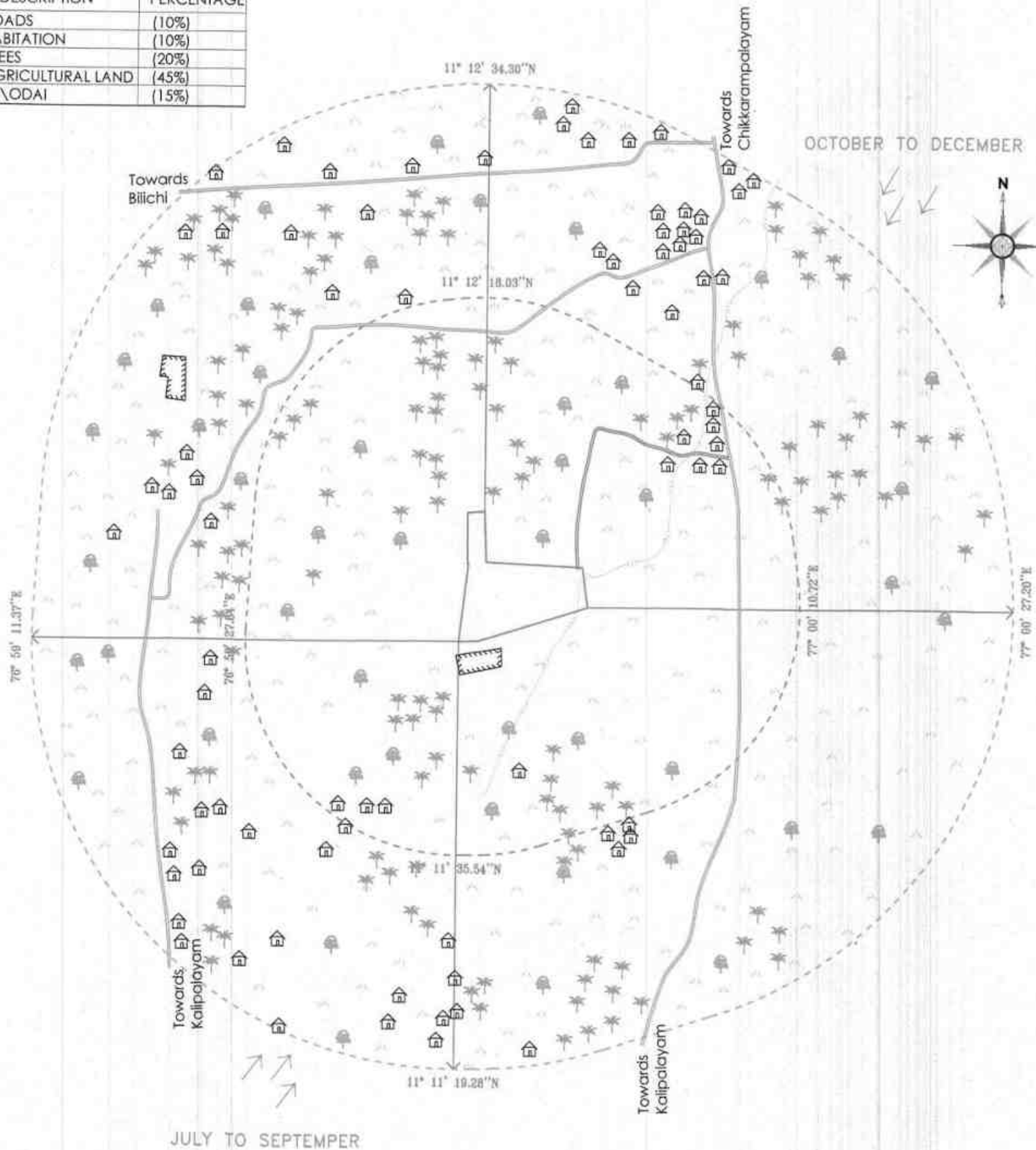


PLATE NO: I-B

DATE OF SURVEY - 08.03.2019

1Km Radius

500m Radius

29 MAR 2019

Q.L. Applied

TOPO SHEET NO. : 58 A/12

LATITUDE : 11° 11' 51.83"N to 11° 12' 01.78"N

LONGITUDE : 76° 59' 44.32"E to 76° 59' 54.24"E

APPLICANT :

THIRU. P. SIDDHARTHAMOULI,
S/O. PALANISAMY,
NO.2/246, KANNARPALAYAM,
KARAMADAI,
COIMBATORE-641 104

LOCATION OF Q.L. APPLIED AREA:

S.F.Nos : 1119, 1120/4B & 1121/4B
EXTENT : 4.62.5 Ha
VILLAGE : BILICHI (EAST- WEST)
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMIL NADU

INDEX

APPROACH ROAD	
VILLAGE ROAD	
HABITATION	
TREES	
AGRICULTURAL LAND	
PIT	
WIND DIRECTION	
ODAI	

**TOPO SKETCH OF QUARRY LEASE
APPLIED AREA FOR 1Km RADIUS**

SCALE - 1:10,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
PLATE IS TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE BASED UPON THE LEASEMAP
AUTHENTICATED
BY STATE GOVERNMENT

Dr. P. THANGARAJU, M.Sc., Ph.D.,
QUALIFIED PERSON

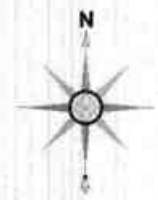


PLATE NO. LC
DATE OF SURVEY : 08.03.2019.

APPLICANT :
 THIRU. P. SIDDHARTHAMOULI,
 S/O. PALANISAMY,
 NO.2/246, KANNARPALAYAM,
 KARAMADAI,
 COIMBATORE-641 104

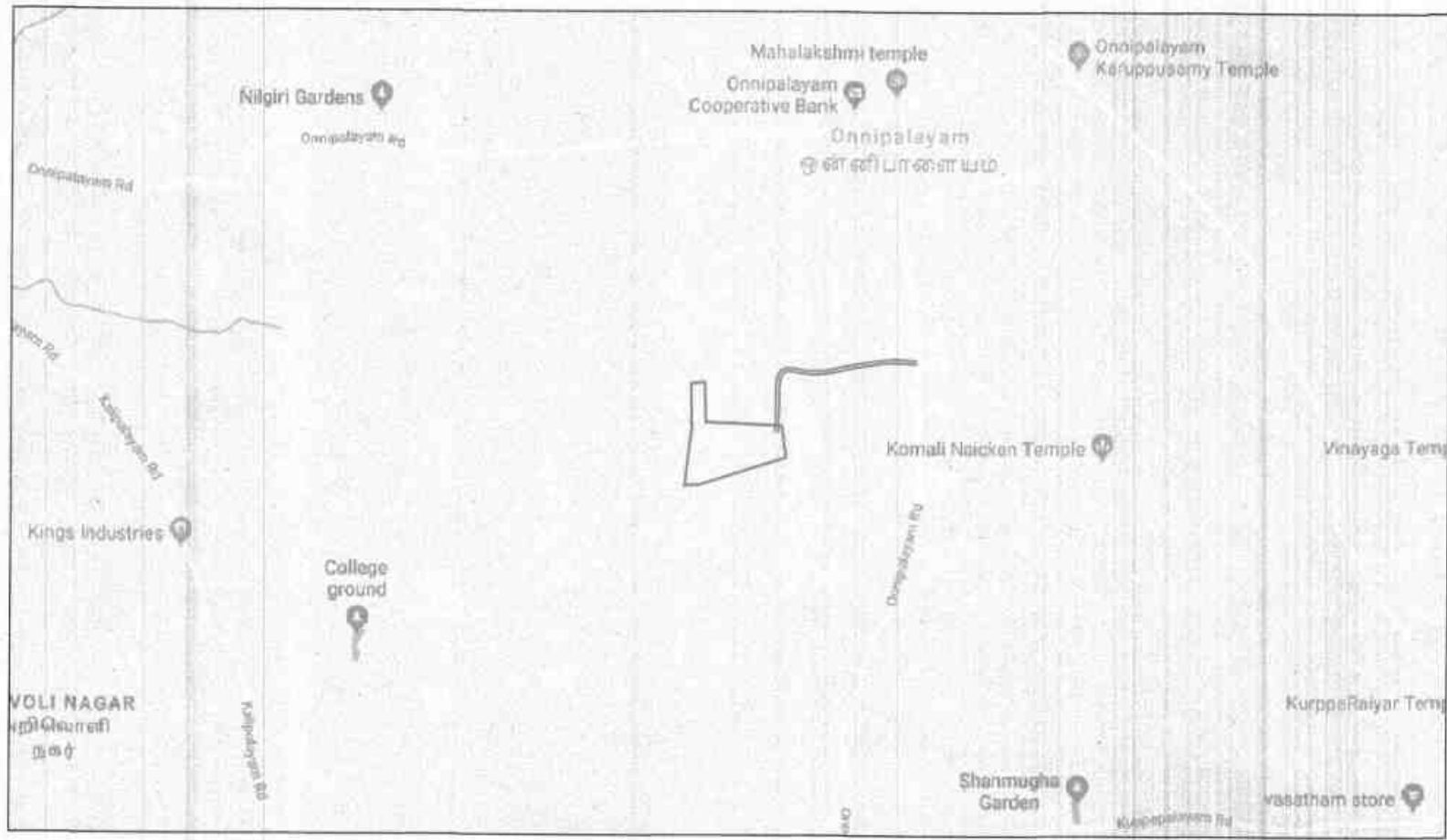
LOCATION OF Q.L. APPLIED AREA:
 S.F.Nos : 1119, 1120/4B & 1121/4B
 EXTENT : 4.62.5 Hg
 VILLAGE : BILICHI (EAST- WEST)
 TALUK : COIMBATORE NORTH
 DISTRICT : COIMBATORE
 STATE : TAMIL NADU

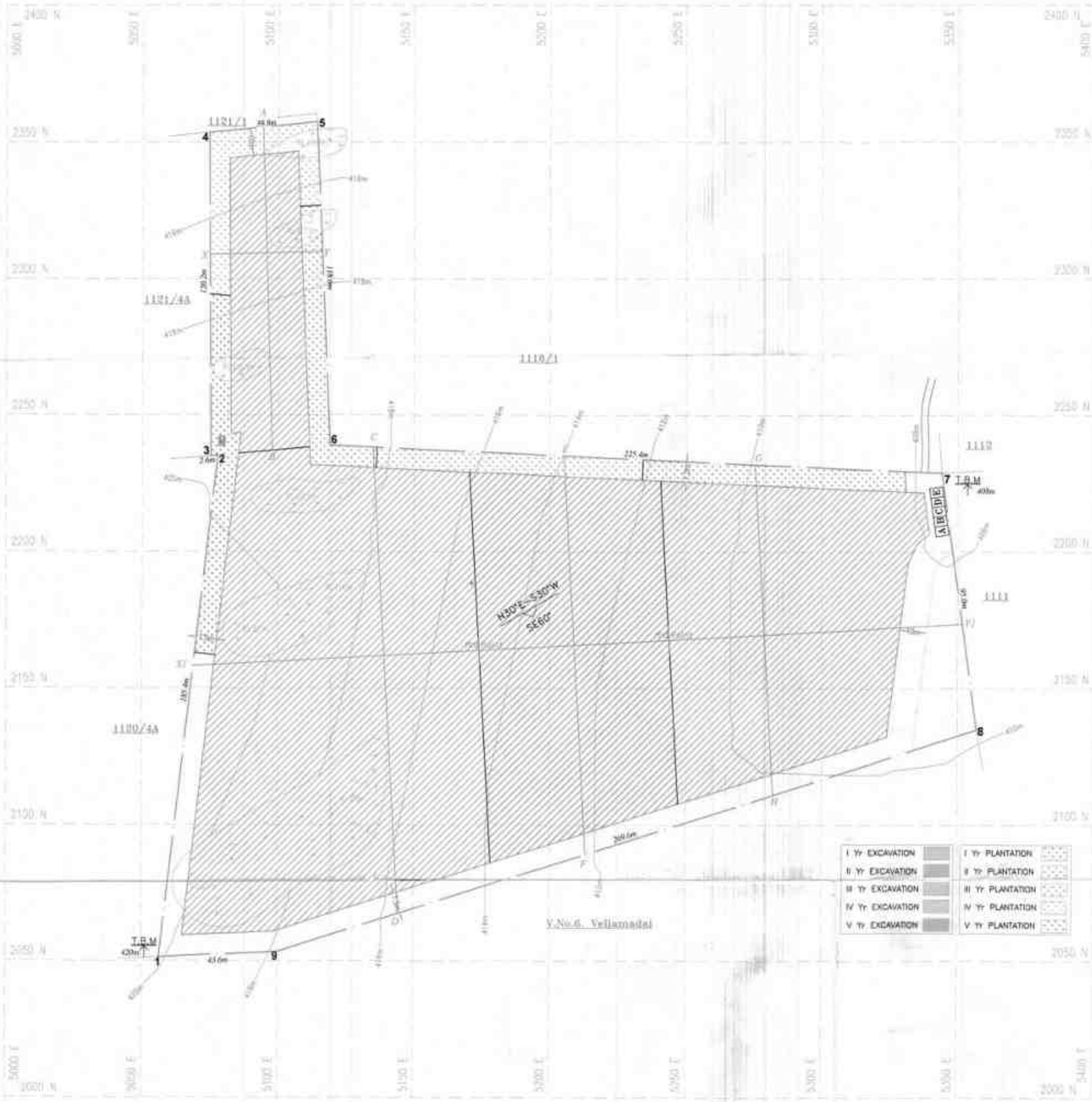
<u>INDEX</u>	
Q.L.APPLIED AREA	
MAJOR ROAD	
VILLAGE ROAD	
APPROACH ROAD	

KEY PLAN
 Not To Scale

PREPARED BY :
 THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
 PLATE IS TRUE AND CORRECT TO THE
 BEST OF MY KNOWLEDGE BASED UPON THE LEASEMAP
 AUTHENTICATED
 BY STATE GOVERNMENT

Dr. P. THANGARAJU, M.Sc, Ph.D.,
 QUALIFIED PERSON





SITE SERVICES PROPOSED
 A - OFFICE
 B - STORE ROOM
 C - FIRST AID ROOM
 D - REST SHED
 E - TOILET
 F - MAGAZINE

Corner	LATITUDE	LONGITUDE
1	11° 11' 51.83"N	76° 59' 44.32"E
2	11° 11' 57.81"N	76° 59' 45.07"E
3	11° 11' 57.80"N	76° 59' 44.98"E
4	11° 12' 01.66"N	76° 59' 44.98"E
5	11° 12' 01.78"N	76° 59' 46.29"E
6	11° 11' 57.92"N	76° 59' 46.42"E
7	11° 11' 57.54"N	76° 59' 53.84"E
8	11° 11' 54.48"N	76° 59' 54.24"E
9	11° 11' 51.89"N	76° 59' 45.75"E

I Yr EXCAVATION	I Yr PLANTATION
II Yr EXCAVATION	II Yr PLANTATION
III Yr EXCAVATION	III Yr PLANTATION
IV Yr EXCAVATION	IV Yr PLANTATION
V Yr EXCAVATION	V Yr PLANTATION

PLATE NO-III
 DATE OF SURVEY : 08.03.2019

APPLICANT:
 THRU. P. SIDDHARTH MOULI,
 S/O. PALANISAMY,
 NO.2/246, KANNARPAL,
 KARAMDAL,
 COIMBATORE-641 704.

LOCATION OF Q.L. APPLIED AREA:

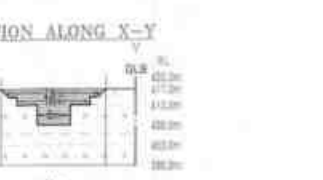
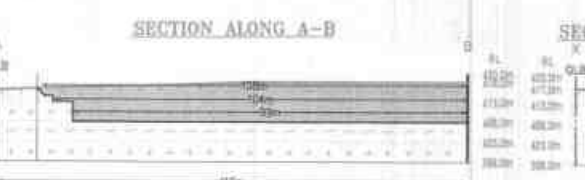
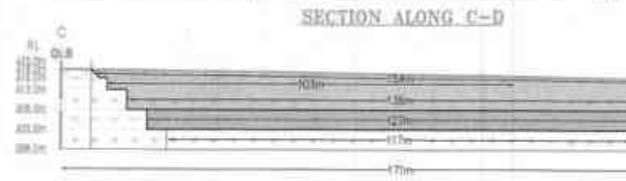
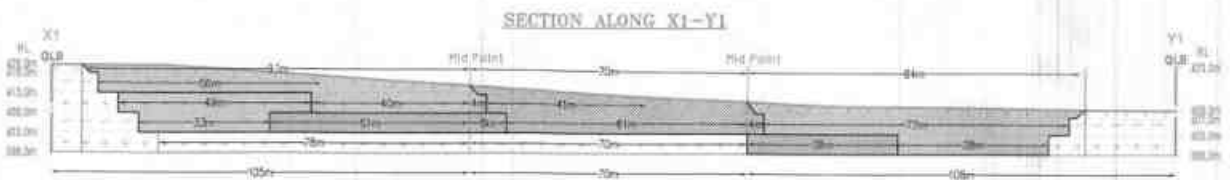
S.E.No. : 1119, 1120/4B & 1121/4B
 EXTENT : 4.62.5 Ha
 VILLAGE : BILUCHI (EAST- WEST)
 TALUK : COIMBATORE NORTH
 DISTRICT : COIMBATORE
 STATE : TAMIL NADU

INDEX

- Q.L. APPLIED AREA BOUNDARY
- 7.5m & 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- ODAI
- CONTOUR
- ROUGH STONE
- GRAVEL
- STRIKE AND DIP
- OUT CROPS

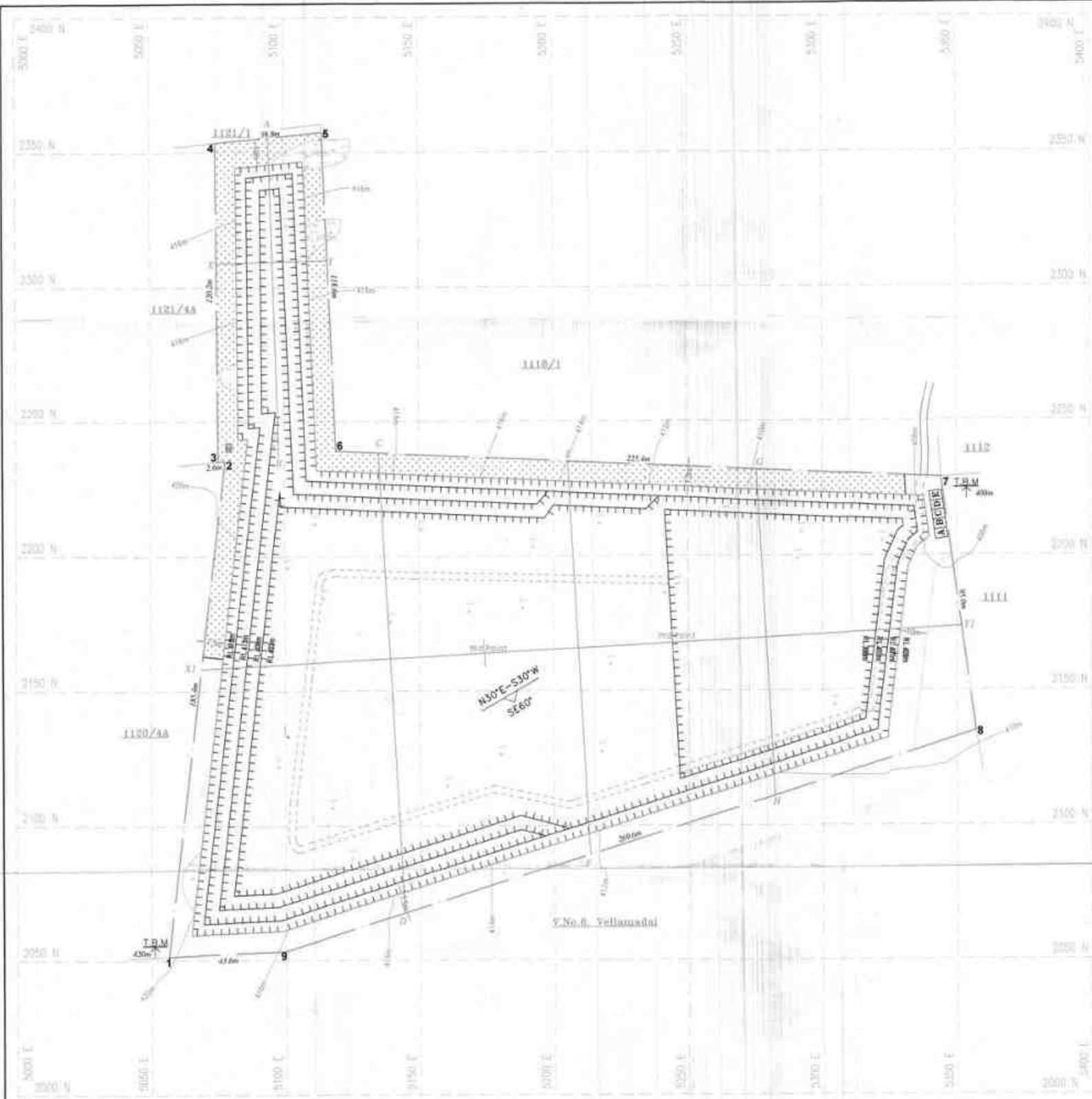
PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARTER PERIOD (Ha)
AREA UNDER CHAFFING	Nil	3.71.8
INFRASTRUCTURE	Nil	0.03.0
ROADS	Nil	0.05.0
GREEN BELT	Nil	0.42.4
UN-UTILIZED AREA	4.62.3	3.40.3
GRAND TOTAL	4.62.3	4.62.3



TOPOGRAPHY, GEOLOGICAL, YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTIONS
 SCALE 1:1000
 SECTION HOR 1:1000, VER 1:1000

PREPARED BY:
 THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLAN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE SURVEY AUTHENTICATED BY STATE GOVERNMENT
 [Signature]
 SURVEYOR



SITE SERVICES	
A	OFFICE
B	STORE ROOM
C	FIRST AID ROOM
D	REST SHED
E	TORAL
F	MAGAZINE

Corner	LATITUDE	LONGITUDE
1	11° 11' 51.83"N	76° 59' 44.32"E
2	11° 11' 57.81"N	76° 59' 45.07"E
3	11° 11' 57.80"N	76° 59' 44.98"E
4	11° 12' 01.66"N	76° 59' 44.98"E
5	11° 12' 01.78"N	76° 59' 46.29"E
6	11° 11' 57.92"N	76° 59' 46.42"E
7	11° 11' 57.54"N	76° 59' 53.84"E
8	11° 11' 54.48"N	76° 59' 54.24"E
9	11° 11' 51.89"N	76° 59' 45.75"E

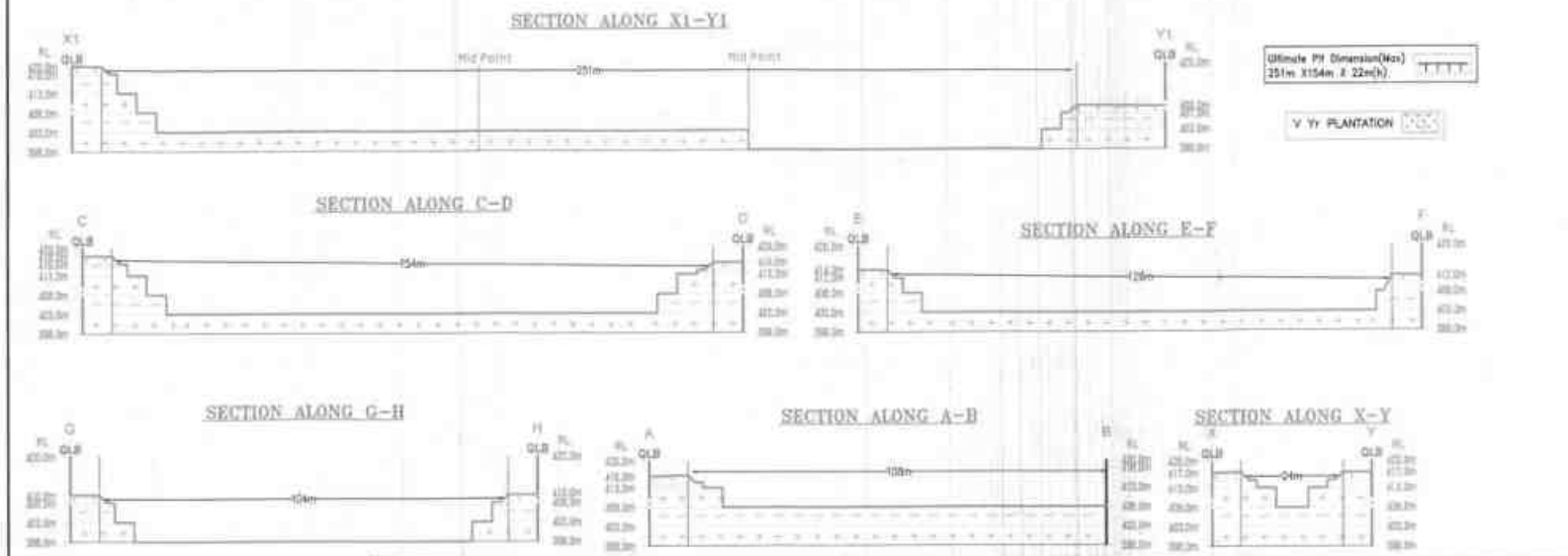
PLATE NO-IV
DATE OF SURVEY : 08.03.2019

APPLICANT :
THRU. P. SIDDHARTHAMOULI,
S/O. PALANSAMY,
NO.2/246, KANNARPALAYAM,
KARAMADI,
COIMBATORE-641 104

LOCATION OF Q.L. APPLIED AREA:
S.F.No.s : 1119, 1120/48 & 1121/48
EXTENT : 4.42.5 Ha
VILLAGE : BILCHI (EAST-WEST)
TALUK : COIMBATORE NORTH
DISTRICT : COIMBATORE
STATE : TAMILNADU

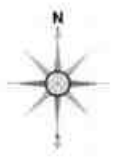
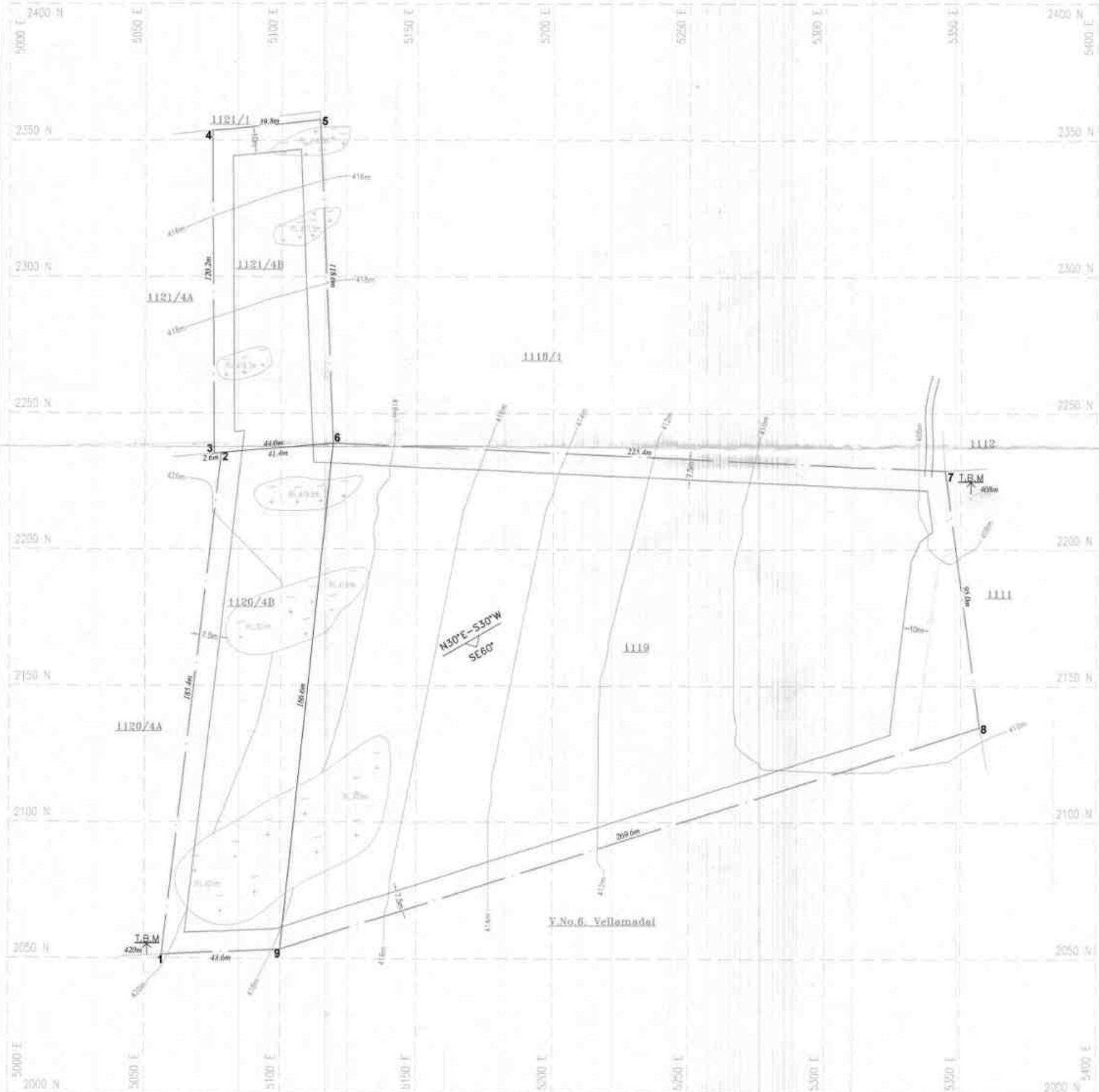


- Q.L. APPLIED AREA BOUNDARY
- 7.5m & 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK
- APPROACH ROAD
- ODAI
- CONTOUR
- QUARRY PIT
- QUARRY ROAD
- ROUGH STONE
- GRAVEL
- STRIKE AND DIP
- OUT CROPS



CONCEPTUAL PLAN & SECTIONS
SCALE 1 : 1000
SECTION HOR 1 : 1000, VER 1 : 1000

PREPARED BY:
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
PLAN IS TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE BASED UPON THE SURVEY
AUTHORISED BY STATE GOVERNMENT
[Signature]
SULATED PERIOD



Corner	LATITUDE	LONGITUDE
1	11° 11' 51.83"N	76° 59' 44.32"E
2	11° 11' 57.81"N	76° 59' 45.07"E
3	11° 11' 57.80"N	76° 59' 44.98"E
4	11° 12' 01.66"N	76° 59' 44.98"E
5	11° 12' 01.78"N	76° 59' 46.29"E
6	11° 11' 57.92"N	76° 59' 46.42"E
7	11° 11' 57.54"N	76° 59' 53.84"E
8	11° 11' 54.38"N	76° 59' 54.24"E
9	11° 11' 51.89"N	76° 59' 45.75"E

PLATE NO-II 29 MAR 2019
 DATE OF SURVEY : 08.03.2019

APPLICANT
 THIRU, P. SIDDHARTHAN MOHIL
 S/O. PALANISAMY,
 NO.2/246, KANNARPALAYAM,
 KARAMADAI,
 COIMBATORE-641 104

LOCATION OF Q.L. APPLIED AREA:
 S.F.Nos : 1119, 1120/4B & 1121/4B
 EXTENT : 4.62.5 Ha
 VILLAGE : BILICHI (EAST- WEST)
 TALUK : COIMBATORE NORTH
 DISTRICT : COIMBATORE
 STATE : TAMIL NADU

INDEX

Q.L. APPLIED AREA BOUNDARY	
7.5m & 10m SAFETY DISTANCE	
TEMPORARY BENCH MARK	
APPROACH ROAD	
ODAI	
CONTOUR	
OUT CROPS	
STRIKE AND DIP	

QUARRY LEASE & SURFACE PLAN
 SCALE 1 : 1000

PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS
 PLATE IS TRUE AND CORRECT TO THE
 BEST OF MY KNOWLEDGE BASED UPON THE LEASAMP
 NOTIFICATED
 BY STATE GOVERNMENT

 S. THANGARAJAN, S.E., P.A. D.
 QUALIFIED PERSON

TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/001
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 1 – CORE ZONE Project Area 11°12'0.51"N 76°59'39.01"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	45.5	22.3	6.5	24.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	44.2	22.1	6.1	24.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	45.3	23.6	6.0	22.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	46.1	24.1	6.5	23.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	47.2	23.4	5.2	24.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	45.2	24.1	5.2	24.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	44.0	22.0	5.2	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	43.2	24.1	5.0	25.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	44.1	21.0	6.8	25.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	45.0	22.1	6.5	22.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	44.3	22.3	8.8	22.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	45.8	24.2	7.0	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	46.2	23.1	6.2	24.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	47.0	25.3	8.2	24.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.2	23.1	6.3	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	47.3	26.1	7.2	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	45.1	22.2	8.3	24.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	44.3	22.3	6.6	25.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	45.3	21.1	7.3	25.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	44.6	22.3	8.5	25.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	45.8	22.4	8.3	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	45.3	23.5	6.3	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	43.2	22.1	7.0	24.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	42.0	22.3	7.2	24.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	44.6	22.4	6.4	24.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	45.2	22.1	6.3	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/001
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 1 – CORE ZONE Project Area 11°12'0.51"N 76°59'39.01"E		

Date	Period. hrs	SPM ($\mu\text{g}/\text{m}^3$)	As (ng/m^3)	C6H6 ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)
01.12.2022	7:00-7:00	67.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	68.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	68.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	68.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	66.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	68.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	65.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	68.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	66.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	65.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	64.7	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	68.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	69.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	65.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/002
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 2 – Onnipalayam - 11°12'26.87"N 77°0'7.67"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	47.5	25.2	6.5	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	46.3	24.4	6.2	23.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	45.3	25.8	7.8	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	48.2	26.0	6.5	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	49.0	25.3	7.5	22.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	45.2	26.2	6.8	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	46.3	23.2	6.4	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	47.1	24.3	6.1	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	48.2	24.6	6.5	22.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	49.3	25.3	7.3	21.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	45.2	26.1	6.0	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	45.1	27.0	7.5	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	44.5	24.3	6.8	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	45.6	25.0	6.2	23.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.0	26.1	7.3	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	47.3	27.3	6.4	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	49.2	25.3	6.6	22.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	48.3	26.5	7.2	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	48.0	27.0	6.8	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	47.2	25.3	7.5	23.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	46.2	26.4	6.2	21.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	45.0	27.1	7.3	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	46.3	25.6	6.4	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	47.2	26.1	7.3	22.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	48.4	27.3	7.5	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	49.0	26.6	6.8	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/002
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 2 – Onnipalayam - 11°12'26.87"N 77°0'7.67"E		

Date	Period. hrs	SPM (µg/m³)	As (ng/m³)	C6H6 (µg/m³)	BaP (ng/m³)	Pb (µg/m³)	Ni (ng/m³)
01.12.2022	7:00-7:00	60.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	63.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	61.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	63.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	61.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	62.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	64.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	63.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	63.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	63.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	62.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	63.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	63.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

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Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/003	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/003
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ3 – Kallipalayam - 11°10'44.19"N 76°59'22.55"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	44.2	23.5	6.2	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	46.1	23.8	5.5	19.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	45.2	24.2	6.3	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	43.1	23.0	7.0	20.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	47.2	25.4	5.8	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	48.0	23.8	6.2	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	46.2	24.2	7.2	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	45.3	25.6	6.3	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	43.1	23.1	5.5	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	44.5	25.4	6.2	19.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	46.3	23.2	7.2	20.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	47.1	25.2	6.0	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	48.3	24.6	5.8	20.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	44.5	23.4	5.3	19.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	45.1	25.5	6.4	21.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	46.3	23.6	6.8	20.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	44.0	24.1	7.0	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	46.2	25.3	7.8	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	45.3	24.1	6.3	20.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	44.3	25.3	5.2	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	48.0	23.2	6.3	19.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	46.2	24.1	7.4	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	47.2	25.3	6.8	19.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	45.3	22.3	8.2	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	44.1	24.1	7.9	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	45.3	25.6	8.0	21.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

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Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/003	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/003
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ3 - Kallipalayam - 11°10'44.19"N 76°59'22.55"E		

Date	Period. hrs	SPM ($\mu\text{g}/\text{m}^3$)	As (ng/m^3)	C6H6 ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)
01.12.2022	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	65.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	61.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	62.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	63.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	62.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	61.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	61.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	61.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	63.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****



Verified by

[Signature]

Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/004	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/004
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ4 – Muthalipalayam - 11°10'19.43"N 77°2'38.39"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	43.2	22.3	5.5	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	42.2	23.6	6.0	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	43.0	26.3	5.2	20.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	44.5	27.1	6.3	20.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	45.5	22.5	5.2	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	46.2	23.0	6.4	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	44.2	24.5	5.8	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	42.5	25.6	6.0	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	43.6	24.3	5.2	22.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	45.1	25.0	6.3	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	46.2	22.3	5.1	22.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	43.6	23.5	6.4	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	44.2	24.3	6.0	22.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	45.1	26.5	5.8	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.3	27.1	6.4	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	44.2	25.2	6.3	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	46.3	26.3	6.2	24.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	45.1	27.4	6.4	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	44.2	26.3	6.1	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	42.3	24.1	5.2	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	43.1	22.3	5.3	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	44.5	25.8	6.4	25.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	45.6	26.5	5.8	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	46.3	25.0	6.2	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	42.3	24.6	6.4	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	44.5	23.1	5.5	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/004	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/004
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ4 Muthalipalayam - 11°10'19.43"N 77°2'38.39"E		

Date	Period. hrs	SPM (µg/m ³)	As (ng/m ³)	C6H6 (µg/m ³)	BaP (ng/m ³)	Pb (µg/m ³)	Ni (ng/m ³)
01.12.2022	7:00-7:00	65.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	65.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	65.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	64.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	66.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	67.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	67.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	67.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	67.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	67.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****



Verified by

[Signature]

Authorised Signatory

[Signature]

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/005	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/005
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ5 – Bettadapuram -11°13'26.14"N 76°57'26.99"E		

Date	Period. hrs	PM10($\mu\text{g}/\text{m}^3$)	PM2.5($\mu\text{g}/\text{m}^3$)	SO2 ($\mu\text{g}/\text{m}^3$)	NO2 ($\mu\text{g}/\text{m}^3$)	O3 ($\mu\text{g}/\text{m}^3$)	NH3 ($\mu\text{g}/\text{m}^3$)	CO (mg/ m ³)
01.12.2022	7:00-7:00	45.5	24.3	7.2	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	46.3	23.1	6.0	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	44.2	22.1	7.8	21.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	42.3	21.0	6.2	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	46.3	23.1	7.2	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	44.5	22.5	6.0	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	43.2	24.6	7.1	20.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	46.5	25.0	7.5	18.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	47.1	21.2	8.2	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	45.3	22.5	6.2	20.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	46.2	23.5	7.3	18.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	43.2	24.3	8.1	19.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	44.6	25.2	6.3	20.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	45.3	22.3	8.1	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.3	23.5	7.5	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	47.2	24.1	8.3	18.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	43.5	25.5	7.1	21.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	44.5	24.6	7.3	22.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	46.3	23.1	7.2	18.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	47.2	22.5	6.3	19.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	44.3	23.5	6.2	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	45.2	24.2	8.1	21.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	43.1	25.3	6.3	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	44.6	24.2	7.4	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	45.8	23.6	8.0	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	46.1	22.1	7.5	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/005	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/005
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ5 – Bettadapuram -11°13'26.14"N 76°57'26.99"E		

Date	Period. hrs	SPM ($\mu\text{g}/\text{m}^3$)	As (ng/m^3)	C6H6 ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)
01.12.2022	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	66.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	63.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	62.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	63.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	62.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	63.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	66.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	62.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	63.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	66.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	63.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	62.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****



Verified by

[Signature]

Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/006	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/006
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 6 - Periya Puthur - 11°13'38.24"N 77°1'43.30"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	44.0	22.5	6.2	18.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	45.2	23.2	7.2	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	46.3	24.3	6.8	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	44.2	21.0	7.0	17.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	43.2	22.1	7.4	19.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	43.0	25.0	6.3	17.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	45.2	26.1	7.2	18.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	45.0	22.3	6.8	20.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	45.2	26.1	6.9	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	46.2	23.2	7.4	17.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	44.2	25.1	7.3	18.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	45.2	22.8	6.2	18.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	46.3	23.1	6.3	21.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	45.0	22.0	7.1	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.1	23.6	7.5	17.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	44.2	22.1	6.8	18.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	46.5	23.4	7.3	17.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	44.0	22.6	6.9	22.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	45.0	26.1	7.2	21.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	46.3	23.4	7.0	17.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	44.1	26.0	6.8	18.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	44.5	23.5	6.5	19.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	43.8	22.4	7.4	20.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	44.2	22.1	7.3	18.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	44.6	22.3	6.4	19.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	45.3	24.1	6.6	20.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/006	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/006
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ 6 - Periya Puthur - 11°13'38.24"N 77°1'43.30"E		

Date	Period. hrs	SPM (µg/m ³)	As (ng/m ³)	C6H6 (µg/m ³)	BaP (ng/m ³)	Pb (µg/m ³)	Ni (ng/m ³)
01.12.2022	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	61.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	60.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	63.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	62.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	65.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	60.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	63.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	62.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	65.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	62.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	62.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/007	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/007
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ7 – Mathampalayam -11°11'53.08"N 76°57'22.51"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	44.1	22.0	6.2	16.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	43.5	22.3	6.0	17.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	42.1	21.5	7.1	18.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	45.3	23.2	7.2	19.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	46.1	24.1	6.8	20.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	47.2	22.3	7.1	22.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	43.1	24.1	6.2	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	44.6	25.3	7.4	18.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	45.2	24.6	6.3	17.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	46.3	26.5	7.3	16.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	47.0	23.0	6.4	20.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	44.5	22.4	6.5	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	45.3	23.4	7.1	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	43.5	22.1	7.6	19.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	43.0	23.0	6.4	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	44.2	22.1	7.3	22.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	45.3	20.5	6.0	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	46.5	23.5	7.4	22.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	47.2	22.4	7.2	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	45.0	23.2	6.5	20.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	46.3	23.6	7.0	21.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	47.2	24.1	7.3	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	45.2	22.3	7.4	18.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	44.2	25.1	6.2	22.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	46.3	26.3	7.8	21.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	47.1	22.0	6.6	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/007	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/007
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ7 – Mathampalayam -11°11'53.08"N 76°57'22.51"E		

Date	Period. hrs	SPM (µg/m ³)	As (ng/m ³)	C6H6 (µg/m ³)	BaP (ng/m ³)	Pb (µg/m ³)	Ni (ng/m ³)
01.12.2022	7:00-7:00	64.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	63.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	62.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	66.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	62.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	63.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	67.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	66.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	65.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	63.8	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	62.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	66.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	67.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	63.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	62.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	63.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****



Verified by

[Signature]

Authorised Signatory

[Signature]
Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/008	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/008
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ8 – Sengalipalayam - 11°11'46.02"N 77°1'18.17"E		

Date	Period. hrs	PM10(µg/m ³)	PM2.5(µg/m ³)	SO2 (µg/m ³)	NO2 (µg/m ³)	O3 (µg/m ³)	NH3 (µg/m ³)	CO (mg/ m ³)
01.12.2022	7:00-7:00	44.3	22.3	5.2	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.12.2022	7:15-7:15	42.1	21.5	5.5	23.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
08.12.2022	7:00-7:00	43.5	22.6	5.3	23.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.12.2022	7:15-7:15	45.1	25.1	5.0	22.8	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
15.12.2022	7:00-7:00	46.1	26.3	6.2	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.12.2022	7:15-7:15	47.2	27.4	6.5	24.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
22.12.2022	7:00-7:00	44.0	28.0	6.1	23.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.12.2022	7:15-7:15	45.3	24.1	6.4	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
29.12.2022	7:00-7:00	46.3	25.3	6.3	21.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
30.12.2022	7:15-7:15	47.0	26.5	6.6	22.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
05.01.2023	7:00-7:00	44.1	27.4	7.2	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
06.01.2023	7:15-7:15	46.3	26.0	6.8	24.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
12.01.2023	7:00-7:00	47.2	28.3	7.0	22.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
13.01.2023	7:15-7:15	45.2	24.2	6.9	20.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
19.01.2023	7:00-7:00	46.3	26.3	6.5	22.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
20.01.2023	7:15-7:15	43.0	28.1	6.2	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
26.01.2023	7:00-7:00	42.1	27.1	6.3	21.3	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
27.01.2023	7:15-7:15	44.3	22.3	6.6	21.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
02.02.2023	7:00-7:00	45.1	24.1	6.4	22.4	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
03.02.2023	7:15-7:15	46.2	23.1	6.3	23.6	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
09.02.2023	7:00-7:00	47.2	22.2	6.8	24.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
10.02.2023	7:15-7:15	43.1	22.4	7.0	23.0	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
16.02.2023	7:00-7:00	44.2	22.1	6.4	24.2	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
17.02.2023	7:15-7:15	45.2	25.3	6.3	23.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
23.02.2023	7:00-7:00	44.0	22.0	7.5	23.5	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
24.02.2023	7:15-7:15	46.3	23.1	7.3	22.1	BDL(DL:5.0)	BDL(DL:1.0)	BDL(DL:1.14)
NAAQ* Standard		<100	<60	<80	<80	<100	<400	<4

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****

Page 1 of 1

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/008	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	IS 5182	Sample Drawn by	Laboratory
Sample Name	Air	Sample Code	EHS360/008
Sample Description	Ambient Air Quality Monitoring	Sample Condition	Good
Sampling Location	AAQ8 – Sengalipalayam - 11°11'46.02"N 77°1'18.17"E		

Date	Period. hrs	SPM (µg/m ³)	As (ng/m ³)	C6H6 (µg/m ³)	BaP (ng/m ³)	Pb (µg/m ³)	Ni (ng/m ³)
01.12.2022	7:00-7:00	65.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.12.2022	7:15-7:15	64.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
08.12.2022	7:00-7:00	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.12.2022	7:15-7:15	66.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
15.12.2022	7:00-7:00	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.12.2022	7:15-7:15	68.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
22.12.2022	7:00-7:00	66.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.12.2022	7:15-7:15	65.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
29.12.2022	7:00-7:00	64.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
30.12.2022	7:15-7:15	68.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
05.01.2023	7:00-7:00	65.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
06.01.2023	7:15-7:15	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
12.01.2023	7:00-7:00	64.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
13.01.2023	7:15-7:15	65.5	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
19.01.2023	7:00-7:00	66.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
20.01.2023	7:15-7:15	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
26.01.2023	7:00-7:00	68.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
27.01.2023	7:15-7:15	67.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
02.02.2023	7:00-7:00	66.1	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
03.02.2023	7:15-7:15	65.4	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
09.02.2023	7:00-7:00	64.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
10.02.2023	7:15-7:15	63.3	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
16.02.2023	7:00-7:00	65.0	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
17.02.2023	7:15-7:15	66.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
23.02.2023	7:00-7:00	67.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
24.02.2023	7:15-7:15	68.2	BDL (DL:0.1)	BDL (DL:1.0)	BDL (DL:1.0)	BDL (DL:0.1)	BDL (DL:0.1)
NAAQ* Standard		<200	6	5	1	1	20

Note: BDL: Below Detection Limit ;DL: Detection Limit

Remarks: The values observed for the pollutants given above are within the CPCB standards.

*****End of Report*****



Verified by

[Signature]

Authorised Signatory

[Signature]

Name: Santhosh Kumar A
Designation: Quality Manager

- Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/ 001	Report Date	02.03.2023
Site Location	<i>Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/ 001
Sample Description	Ambient Noise	Sample Collected Date	24.02.2023

Location	N1 – Core Zone - 11°11'54.54"N 76°59'40.76"E			N2 – Onnipalayam - 11°12'27.14"N 77° 0'7.93"E		
	Min	Max	Result	Min	Max	Result
Parameter						
Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
06:00-07:00	42.2	47.1	45.3	41.2	44.2	43.0
07:00-08:00	42.3	45.2	44.0	40.3	43.2	42.0
08:00-09:00	44.3	43.2	43.8	41.2	45.1	43.6
09:00-10:00	41.3	47.2	45.2	42.1	46.2	44.6
10:00-11:00	40.2	45.3	43.5	40.6	45.2	43.5
11:00-12:00	41.2	44.3	43.0	40.2	47.2	45.0
12:00-13:00	42.1	47.6	45.7	41.2	46.2	44.4
13:00-14:00	43.2	47.3	45.7	40.2	46.3	44.2
14:00-15:00	41.2	44.5	43.2	42.1	45.2	43.9
15:00-16:00	43.2	46.3	45.0	42.3	47.2	45.4
16:00-17:00	41.8	48.2	46.1	42.1	46.3	44.7
17:00-18:00	42.6	46.3	44.8	40.3	48.2	45.8
18:00-19:00	40.2	46.3	44.2	41.3	44.2	43.0
19:00-20:00	42.1	45.2	43.9	37.2	43.2	41.2
20:00-21:00	40.3	43.2	42.0	35.2	42.1	39.9
21:00-22:00	38.2	40.2	39.3	36.1	39.2	37.9
22:00-23:00	36.2	42.1	40.1	36.5	38.2	37.4
23:00-00:00	37.5	39.1	38.4	34.2	36.2	35.3
00:00-01:00	35.6	37.2	36.5	33.5	34.1	33.8
01:00-02:00	34.2	36.1	35.3	32.1	36.2	34.6
02:00-03:00	32.1	35.2	33.9	34.6	36.5	35.7
03:00-04:00	34.5	36.1	35.4	35.2	37.1	36.3
04:00-05:00	36.5	38.2	37.4	34.1	36.5	35.5
05:00-06:00	34.2	36.4	35.4	33.6	37.1	35.7
Result	Day Means		43.8	Day Means		42.9
	Night Means		36.0	Night Means		35.3

Note: CPCB Norms Industrial Area Day Time:75 dB(A); Night Time:70 dB(A)
The Noise level in the above location exists within the permissible limits of CPCB.

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/ 002	Report Date	02.03.2023
Site Location	<i>Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/ 002
Sample Description	Ambient Noise	Sample Collected Date	24.02.2023

Location	N3 – Kallipalayam - 11°10'43.86"N 76°59'24.02"E			N4 – Muthalipalayam - 11°10'20.38"N 77° 2'38.46"E		
Parameter	Min	Max	Result	Min	Max	Result
Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
06:00-07:00	38.2	40.2	39.3	38.2	40.2	39.3
07:00-08:00	39.2	42.1	40.9	37.1	40.1	38.9
08:00-09:00	40.2	42.3	41.4	36.2	39.8	38.4
09:00-10:00	42.1	44.2	43.3	35.2	39.4	37.8
10:00-11:00	39.5	41.2	40.4	40.1	42.1	41.2
11:00-12:00	38.2	44.2	42.2	34.2	38.2	36.6
12:00-13:00	37.2	40.2	39.0	33.1	36.1	34.9
13:00-14:00	44.2	46.3	45.4	32.2	35.1	33.9
14:00-15:00	42.1	44.2	43.3	42.1	44.3	43.3
15:00-16:00	41.2	45.3	43.7	40.1	42.1	41.2
16:00-17:00	40.3	42.3	41.4	38.2	40.3	39.4
17:00-18:00	37.2	40.2	39.0	39.2	42.1	40.9
18:00-19:00	36.6	42.1	40.2	42.1	44.3	43.3
19:00-20:00	35.2	40.2	38.4	44.3	46.1	45.3
20:00-21:00	34.2	36.1	35.3	36.5	38.6	37.7
21:00-22:00	33.2	34.2	33.7	38.1	40.2	39.3
22:00-23:00	32.1	35.2	33.9	36.5	38.2	37.4
23:00-00:00	33.2	36.1	34.9	35.2	37.6	36.6
00:00-01:00	32.1	35.2	33.9	34.2	37.2	36.0
01:00-02:00	31.4	34.1	33.0	33.2	36.1	34.9
02:00-03:00	33.6	35.2	34.5	32.1	37.6	35.7
03:00-04:00	34.2	36.3	35.4	33.4	35.6	34.6
04:00-05:00	35.2	37.2	36.3	31.2	33.5	32.5
05:00-06:00	36.4	38.2	37.4	34.6	36.4	35.6
Result	Day Means		40.0	Day Means		39.3
	Night Means		35.0	Night Means		35.1

Note: CPCB Norms Industrial Area Day Time:75 dB(A); Night Time:70 dB(A)
The Noise level in the above location exists within the permissible limits of CPCB.

Verified by



Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/ 003	Report Date	02.03.2023
Site Location	<i>Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/ 003
Sample Description	Ambient Noise	Sample Collected Date	24.02.2023

Location	N5 – Bettadapuram - 11°13'26.18"N 76°57'26.45"E			N6 – Periya Puthur - 11°13'37.40"N 77° 1'42.33"E		
Parameter	Min	Max	Result	Min	Max	Result
Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
06:00-07:00	36.3	38.6	37.6	36.5	38.2	37.4
07:00-08:00	34.2	36.8	35.7	35.5	38.9	37.5
08:00-09:00	36.2	38.2	37.3	34.2	36.5	35.5
09:00-10:00	31.2	38.2	36.0	33.2	38.2	36.4
10:00-11:00	32.6	33.4	33.0	31.2	36.4	34.5
11:00-12:00	33.4	35.2	34.4	33.6	36.2	35.1
12:00-13:00	35.6	38.6	37.4	34.2	38.2	36.6
13:00-14:00	38.2	39.1	38.7	33.6	39.2	37.2
14:00-15:00	38.6	39.9	39.3	34.1	40.2	38.1
15:00-16:00	36.8	38.2	37.6	36.5	42.3	40.3
16:00-17:00	37.2	39.2	38.3	38.2	43.1	41.3
17:00-18:00	38.1	39.2	38.7	40.2	44.2	42.6
18:00-19:00	35.2	39.7	38.0	42.1	46.3	44.7
19:00-20:00	33.5	42.3	39.8	44.3	46.2	45.4
20:00-21:00	32.2	44.2	41.5	40.2	44.2	42.6
21:00-22:00	33.6	45.3	42.6	38.1	40.2	39.3
22:00-23:00	34.2	36.2	35.3	32.2	42.3	39.7
23:00-00:00	32.1	37.2	35.4	36.2	41.2	39.4
00:00-01:00	31.8	33.6	32.8	34.2	38.6	36.9
01:00-02:00	31.1	33.4	32.4	36.1	40.3	38.7
02:00-03:00	31.6	39.2	36.9	34.2	38.6	36.9
03:00-04:00	35.2	39.5	37.9	33.6	36.5	35.3
04:00-05:00	34.2	41.2	39.0	35.1	38.9	37.4
05:00-06:00	33.1	40.1	37.9	34.2	39.2	37.4
Result	Day Means		37.7	Day Means		39.1
	Night Means		36.0	Night Means		37.4

Note: CPCB Norms Industrial Area Day Time:75 dB(A); Night Time:70 dB(A)
The Noise level in the above location exists within the permissible limits of CPCB.



Verified by
[Signature]

Authorised Signatory
[Signature]
Name: Santhosh Kumar A
Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/ 004	Report Date	02.03.2023
Site Location	<i>Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	IS 9989	Sample Drawn by	Laboratory
Sample Name	Noise Level Monitoring	Sample Code	EHS360/ 004
Sample Description	Ambient Noise	Sample Collected Date	24.02.2023

Location	N7 - Mathampalayam - 11°11'53.10"N 76°57'21.12"E			N8 – Sengalipalayam - 11°11'46.34"N 77° 1'18.16"E		
Parameter	Min	Max	Result	Min	Max	Result
Time	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
06:00-07:00	38.2	40.2	39.3	36.2	38.2	37.3
07:00-08:00	35.6	39.2	37.8	38.2	40.2	39.3
08:00-09:00	34.2	36.5	35.5	34.2	38.2	36.6
09:00-10:00	35.6	38.2	37.1	33.2	39.2	37.2
10:00-11:00	36.4	38.6	37.6	34.6	38.2	36.8
11:00-12:00	35.1	40.2	38.4	33.1	35.6	34.5
12:00-13:00	36.5	38.2	37.4	32.1	36.4	34.8
13:00-14:00	38.6	42.3	40.8	35.2	38.6	37.2
14:00-15:00	37.2	41.3	39.7	36.2	40.2	38.6
15:00-16:00	31.2	33.2	32.3	32.5	42.3	39.7
16:00-17:00	34.2	36.4	35.4	34.2	43.1	40.6
17:00-18:00	35.6	38.6	37.4	34.1	38.2	36.6
18:00-19:00	36.1	38.1	37.2	33.2	37.2	35.6
19:00-20:00	38.2	40.2	39.3	32.6	38.2	36.2
20:00-21:00	37.2	39.2	38.3	31.2	34.2	33.0
21:00-22:00	33.5	36.5	35.3	32.6	38.2	36.2
22:00-23:00	32.4	36.5	34.9	33.2	36.2	35.0
23:00-00:00	31.2	35.4	33.8	31.2	34.1	32.9
00:00-01:00	32.6	36.5	35.0	30.2	33.2	32.0
01:00-02:00	33.5	34.2	33.9	32.6	35.6	34.4
02:00-03:00	34.2	36.5	35.5	32.5	38.2	36.2
03:00-04:00	35.6	38.2	37.1	31.6	36.9	35.0
04:00-05:00	34.2	36.5	35.5	32.5	37.8	35.9
05:00-06:00	33.5	38.2	36.5	30.2	36.9	34.7
Result	Day Means		37.3	Day Means		36.8
	Night Means		35.3	Night Means		34.4

Note: CPCB Norms Industrial Area Day Time:75 dB(A); Night Time:70 dB(A)
The Noise level in the above location exists within the permissible limits of CPCB.



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[Signature]

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[Signature]
Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 001	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 001
Sample Description	Soil 1	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Core Zone		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	8.04
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	410 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	47.6 %
04	Bulk Density	By Cylindrical Method	1.2 g/cm ³
05	Porosity	By Gravimetric Method	42.8 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	125.5 mg/kg
07	Magnesium as Mg		67.8 mg/kg
08	Chloride as Cl		110 mg/kg
09	Soluble Sulphate as SO ₄		0.011 %
10	Total Phosphorus as P		2.1 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	300 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.93 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.12 %

*****End of Report*****

Page 1 of 1

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A-S-F

Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 001	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 001
Sample Description	Soil 1	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Core Zone		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	35.5 %
	Sand		31.9 %
	Silt		32.6 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	25 mg/kg
16	Zinc as Zn		1.62 mg/kg
17	Boron as B		3.3 mg/kg
18	Potassium as K		32 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.81 mg/kg
23	Iron as Fe		2.35 mg/kg
24	Cation Exchange Capacity		USEPA – 1986

*****End of Report*****

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Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 002
Sample Description	Soil 2	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Onnipalayam		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	8.10
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	523 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	48.7 %
04	Bulk Density	By Cylindrical Method	1.25 g/cm ³
05	Porosity	By Gravimetric Method	42.5 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	158 mg/kg
07	Magnesium as Mg		88.4 mg/kg
08	Chloride as Cl		120 mg/kg
09	Soluble Sulphate as SO ₄		0.0011 %
10	Total Phosphorus as P		1.3 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	270 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	0.90 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	0.52 %


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Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 002	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 002
Sample Description	Soil 2	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Onnipalayam		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	35.5 %
	Sand		36.9 %
	Silt		27.6 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	30.8 mg/kg
16	Zinc as Zn		2.6 mg/kg
17	Boron as B		1.9 mg/kg
18	Potassium as K		40.1 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.59 mg/kg
23	Iron as Fe		1.22 mg/kg
24	Cation Exchange Capacity	USEPA – 1986	38.8 meq/100g of soil

*****End of Report*****

Page 1 of 1

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A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 003	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 003
Sample Description	Soil 3	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Kallipalayam		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	8.75
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	520 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	47.9 %
04	Bulk Density	By Cylindrical Method	1.21 g/cm ³
05	Porosity	By Gravimetric Method	46.1 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	91.8 mg/kg
07	Magnesium as Mg		82 mg/kg
08	Chloride as Cl		130 mg/kg
09	Soluble Sulphate as SO ₄		0.009 %
10	Total Phosphorus as P		1.10 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	355 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	2.03 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.18 %

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Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 003	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 003
Sample Description	Soil 3	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Kallipalayam		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	37.2 %
	Sand		35.9 %
	Silt		26.9 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	25 mg/kg
16	Zinc as Zn		1.3 mg/kg
17	Boron as B		2.5 mg/kg
18	Potassium as K		34.5 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.7 mg/kg
23	Iron as Fe		1.10 mg/kg
24	Cation Exchange Capacity		USEPA – 1986

*****End of Report*****

Page 1 of 1

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Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 004	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 004
Sample Description	Soil 4	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Periya Puthur		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	8.60
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	409 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	47.2. %
04	Bulk Density	By Cylindrical Method	1.1 g/cm ³
05	Porosity	By Gravimetric Method	45.3 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	200 mg/kg
07	Magnesium as Mg		69.1 mg/kg
08	Chloride as Cl		86.5 mg/kg
09	Soluble Sulphate as SO ₄		0.005 %
10	Total Phosphorus as P		1.6 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	410 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.93 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.12 %

*****End of Report*****

Page 1 of 1

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Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 004	Report Date	02.03.2023
Site Location	<i>Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 004
Sample Description	Soil 4	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Periya Puthur		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	37.9 %
	Sand		35.5 %
	Silt		26.6 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	26.7 mg/kg
16	Zinc as Zn		1.3 mg/kg
17	Boron as B		1.5 mg/kg
18	Potassium as K		47.3 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.71 mg/kg
23	Iron as Fe		2.38 mg/kg
24	Cation Exchange Capacity		USEPA – 1986

*****End of Report*****

Page 1 of 1

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Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 005	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 005
Sample Description	Soil 5	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Mathampalayam		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	7.55
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	480 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	46.9 %
04	Bulk Density	By Cylindrical Method	0.95 g/cm ³
05	Porosity	By Gravimetric Method	42.4 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	120 mg/kg
07	Magnesium as Mg		77 mg/kg
08	Chloride as Cl		96.7 mg/kg
09	Soluble Sulphate as SO ₄		0.0031 %
10	Total Phosphorus as P		2.55 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	308 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.76 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.02 %

*****End of Report*****

Page 1 of 1

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Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 005	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 005
Sample Description	Soil 55	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Mathampalayam		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	34.4 %
	Sand		37.5 %
	Silt		28.1 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	23.5 mg/kg
16	Zinc as Zn		1.01 mg/kg
17	Boron as B		1.3 mg/kg
18	Potassium as K		30.8 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.6 mg/kg
23	Iron as Fe		2.22 mg/kg
24	Cation Exchange Capacity		USEPA – 1986

*****End of Report*****

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A-S7

Name : Santhosh Kumar A
Designation : Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/ 006	Report Date	02.03.2023
Site Location	Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 006
Sample Description	Soil 6	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Beerjepalli		

S. No	Test Parameters	Protocols	Results
01	pH @ 25°C	IS 2720 Part 26 - 1987 (Reaff:2016)	7.55
02	Conductivity @ 25°C	IS 14767 - 2000 (Reaff : 2016)	485 µmhos/cm
03	Water Holding Capacity	By Gravimetric Method	48.4 %
04	Bulk Density	By Cylindrical Method	0.94 g/cm ³
05	Porosity	By Gravimetric Method	43.1 %
06	Calcium as Ca	Food and Agriculture organization of the united Nation Rome 2007 : 2018	138 mg/kg
07	Magnesium as Mg		88 mg/kg
08	Chloride as Cl		100 mg/kg
09	Soluble Sulphate as SO ₄		0.0011 %
10	Total Phosphorus as P		3.7 mg/kg
11	Total Nitrogen as N	IS 14684 : 1999 (Reaff:2019)	390 mg/kg
12	Organic Matter	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.93 %
13	Organic Carbon	IS : 2720 Part 22: 1972 (Reaff: 2015)	1.12 %

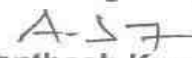
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Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/ 006	Report Date	02.03.2023
Site Location	<i>Tvi. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Soil	Sample Code	EHS360/ 006
Sample Description	Soil 6	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 KG	Sample Received On	25.02.2023
Sample Condition	Good	Test Commenced On	25.02.2023
Sampling Location	Beerjepalli		

S. No	Test Parameters	Protocols	Results
14	Texture :		
	Clay	Gravimetric Method	34.8 %
	Sand		37.9 %
	Silt		27.3 %
15	Manganese as Mn	USEPA 3050 B – 1996 & USEPA 6010 C - 2000	23.8 mg/kg
16	Zinc as Zn		1.10 mg/kg
17	Boron as B		1.06 mg/kg
18	Potassium as K		25.1 mg/kg
19	Cadmium as Cd		BDL (DL : 1.0 mg/kg)
20	Total Chromium as Cr		BDL (DL : 1.0 mg/kg)
21	Copper as Cu		BDL (DL : 1.0 mg/kg)
22	Lead as Pb		0.77 mg/kg
23	Iron as Fe		2.01 mg/kg
24	Cation Exchange Capacity	USEPA – 1986	39.08 meq/100g of soil

*****End of Report*****

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Authorised Signatory

Name: Santhosh Kumar A
Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	<i>Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Surface Water (SW-1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Belladhi Lake		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical		
1	Colour	IS 3025 Part 4:1983	10 Hazen
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983	7.10
4	Conductivity @ 25°C	IS 3025 Part 14:2013	1202 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984	4.5 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984	710 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009	197.76 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991	35.1 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994	26.8 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986	257.1 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988	200 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986	71.7 mg/l
13	Iron as Fe	IS 3025 Part 53:2003	0.14 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.25 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988	8.8 mg/l

*****End of Report*****

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Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	<i>Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Surface Water (SW-1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Belladhi Lake		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019)(Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	BOD @ 27°C for 3 days	IS 3025 Part 44:1993 (Reaff:2019)	6.8 mg/l
32	Chemical Oxygen Demand	IS 3025 Part 58:2006 (Reaff:2017)	40 mg/l
33	Dissolved Oxygen	IS 3025 Part 38:1989 (Reaff:2019)	5.5 mg/l
34	Barium as Ba	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL:0.05 mg/l)
35	Ammonia (as total ammonia-N)	IS 3025 Part 34-1988 (Reaff. 2019)	2.2 mg/l
36	Sulphide as H ₂ S	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:0.01 mg/l)
37	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
38	Total Arsenic as As	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
39	Total Suspended Solids	IS 3025 Part 17 -1984 (Reaff:2017)	20.2 mg/l
	Discipline: Biological	Group: Water	
40	Total Coliform	APHA 23 rd Edn. 2017:9221B	850 MPN/100ml
41	Escherichia coli	APHA 23 rd Edn. 2017:9221F	140 MPN/100ml

*****End of Report*****

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Authorised Signatory

 Name: Santhosh Kumar A
 Designation : Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	<i>Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha</i>		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Surface Water (SW-2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Agrahasamakulam Lake		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical		
1	Colour	IS 3025 Part 4:1983	5 Hazen
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983	7.29
4	Conductivity @ 25°C	IS 3025 Part 14:2013	933 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984	2.9 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984	550 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009	152.17 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991	27.7 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994	20.2 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986	184 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988	140 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986	65.6 mg/l
13	Iron as Fe	IS 3025 Part 53:2003	0.22 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.19 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988	7.7 mg/l

*****End of Report*****

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Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Surface Water (SW-2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Agrahasamakulam Lake		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019)(Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	BOD @ 27°C for 3 days	IS 3025 Part 44:1993 (Reaff:2019)	5.1 mg/l
32	Chemical Oxygen Demand	IS 3025 Part 58:2006 (Reaff:2017)	28 mg/l
33	Dissolved Oxygen	IS 3025 Part 38:1989 (Reaff:2019)	5.5 mg/l
34	Barium as Ba	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL:0.05 mg/l)
35	Ammonia (as total ammonia-N)	IS 3025 Part 34-1988 (Reaff. 2019)	2.6 mg/l
36	Sulphide as H ₂ S	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:0.01 mg/l)
37	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
38	Total Arsenic as As	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
39	Total Suspended Solids	IS 3025 Part 17 -1984 (Reaff:2017)	17.3 mg/l
	Discipline: Biological	Group: Water	
40	Total Coliform	APHA 23 rd Edn. 2017:9221B	800 MPN/100ml
41	Escherichia coli	APHA 23 rd Edn. 2017:9221F	90 MPN/100ml

*****End of Report*****

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TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Ground Water (WW-1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Near Project Area		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical	Group: Water	
1	Colour	IS 3025 Part 4:1983 (Reaff:2017)	5
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983 (Reaff:2017)	7.10
4	Conductivity @ 25°C	IS 3025 Part 14:2013 (Reaff:2019)	746 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984 (Reaff:2017)	1.5 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984 (Reaff:2017)	440 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009 (Reaff:2019)	136.18 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991 (Reaff:2019)	24.1 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994 (Reaff:2019)	18.5 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986 (Reaff:2019)	124 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988 (Reaff:2019)	97.5 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986 (Reaff:2019)	57.2 mg/l
13	Iron as Fe	IS 3025 Part 53:2003 (Reaff:2019)	0.29 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986 (Reaff:2019)	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.21 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988 (Reaff:2019)	8.1 mg/l

*****End of Report*****

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Authorised Signatory

Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Ground Water (WW-1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Near Project Area		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019) (Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	Barium as Ba	IS 3025 Part 44:1993 (Reaff:2019)	BDL(DL:0.05 mg/l)
32	Ammonia (as total ammonia-N)	IS 3025 Part 58:2006 (Reaff:2017)	BDL (DL:0.01 mg/l)
33	Sulphide as H ₂ S	IS 3025 Part 38:1989 (Reaff:2019)	BDL (DL:0.01 mg/l)
34	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
35	Total Arsenic as As	IS 3025 Part 34-1988 (Reaff. 2019)	BDL (DL:0.005 mg/l)
36	Total Suspended Solids	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:1.0 mg/l)
	Discipline: Biological	Group: Water	
37	Total Coliform	APHA 23 rd Edn. 2017:9221B	190 MPN/100ml
38	<i>Escherichia coli</i>	APHA 23 rd Edn. 2017:9221F	< 1.8 MPN/100ml

*****End of Report*****

Page 1 of 1

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Authorised Signatory

 Name: Santhosh Kumar A
 Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Ground Water (WW-2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Krishnapuram		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical	Group: Water	
1	Colour	IS 3025 Part 4:1983 (Reaff:2017)	5
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983 (Reaff:2017)	7.73
4	Conductivity @ 25°C	IS 3025 Part 14:2013 (Reaff:2019)	934 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984 (Reaff:2017)	2.2 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984 (Reaff:2017)	550 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009 (Reaff:2019)	203.05 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991 (Reaff:2019)	35.9 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994 (Reaff:2019)	27.6 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986 (Reaff:2019)	165 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988 (Reaff:2019)	130 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986 (Reaff:2019)	75 mg/l
13	Iron as Fe	IS 3025 Part 53:2003 (Reaff:2019)	0.23 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986 (Reaff:2019)	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.21 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988 (Reaff:2019)	5.8 mg/l

*****End of Report*****

Page 1 of 1

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Name: Santhosh Kumar A
Designation: Quality Manager

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TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tv. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Ground Water (WW-2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Krishnapuram		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019) (Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	Barium as Ba	IS 3025 Part 44:1993 (Reaff:2019)	BDL(DL:0.05 mg/l)
32	Ammonia (as total ammonia-N)	IS 3025 Part 58:2006 (Reaff:2017)	BDL (DL:0.01 mg/l)
33	Sulphide as H ₂ S	IS 3025 Part 38:1989 (Reaff:2019)	BDL (DL:0.01 mg/l)
34	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
35	Total Arsenic as As	IS 3025 Part 34-1988 (Reaff. 2019)	BDL (DL:0.005 mg/l)
36	Total Suspended Solids	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:1.0 mg/l)
	Discipline: Biological	Group: Water	
37	Total Coliform	APHA 23 rd Edn. 2017:9221B	140 MPN/100ml
38	<i>Escherichia coli</i>	APHA 23 rd Edn. 2017:9221F	< 1.8 MPN/100ml

*****End of Report*****

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Authorised Signatory

A-S7

Name: Santhosh Kumar A
Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Ground Water (BW -1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Near Project Area		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical	Group: Water	
1	Colour	IS 3025 Part 4:1983 (Reaff:2017)	5
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983 (Reaff:2017)	8.03
4	Conductivity @ 25°C	IS 3025 Part 14:2013 (Reaff:2019)	785 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984 (Reaff:2017)	1.1 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984 (Reaff:2017)	463 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009 (Reaff:2019)	156.82 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991 (Reaff:2019)	26.6 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994 (Reaff:2019)	22 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986 (Reaff:2019)	138 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988 (Reaff:2019)	114 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986 (Reaff:2019)	65.4 mg/l
13	Iron as Fe	IS 3025 Part 53:2003 (Reaff:2019)	0.22 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986 (Reaff:2019)	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.15 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988 (Reaff:2019)	3.2 mg/l

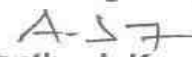
*****End of Report*****

Page 1 of 1

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Authorised Signatory



Name: Santhosh Kumar A
Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/001	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/001
Sample Description	Ground Water (BW - 1)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Near Project Area		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019) (Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	Barium as Ba	IS 3025 Part 44:1993 (Reaff:2019)	BDL(DL:0.05 mg/l)
32	Ammonia (as total ammonia-N)	IS 3025 Part 58:2006 (Reaff:2017)	BDL (DL:0.01 mg/l)
33	Sulphide as H ₂ S	IS 3025 Part 38:1989 (Reaff:2019)	BDL (DL:0.01 mg/l)
34	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
35	Total Arsenic as As	IS 3025 Part 34-1988 (Reaff. 2019)	BDL (DL:0.005 mg/l)
36	Total Suspended Solids	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:1.0 mg/l)
	Discipline: Biological	Group: Water	
37	Total Coliform	APHA 23 rd Edn. 2017:9221B	90 MPN/100ml
38	<i>Escherichia coli</i>	APHA 23 rd Edn. 2017:9221F	< 1.8 MPN/100ml

*****End of Report*****



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[Signature]

Authorised Signatory

[Signature]
Name: Santhosh Kumar A
Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Ground Water (BW -2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Periya Puthur		

S.No.	Parameters	Test Method	RESULTS
	Discipline: Chemical	Group: Water	
1	Colour	IS 3025 Part 4:1983 (Reaff:2017)	5
2	Odour	IS 3025 Part 5:2018	Agreeable
3	pH at 25°C	IS 3025 Part 11:1983 (Reaff:2017)	7.99
4	Conductivity @ 25°C	IS 3025 Part 14:2013 (Reaff:2019)	813 µmhos/cm
5	Turbidity	IS 3025 Part 10:1984 (Reaff:2017)	1.5 NTU
6	Total Dissolved Solids	IS 3025 Part 16:1984 (Reaff:2017)	480 mg/l
7	Total Hardness as CaCO ₃	IS 3025 Part 21:2009 (Reaff:2019)	168.18 mg/l
8	Calcium as Ca	IS 3025 Part 40:1991 (Reaff:2019)	30 mg/l
9	Magnesium as Mg	IS 3025 Part 46:1994 (Reaff:2019)	22.7 mg/l
10	Total Alkalinity as CaCO ₃	IS 3025 Part 23:1986 (Reaff:2019)	140 mg/l
11	Chloride as Cl	IS 3025 Part 32:1988 (Reaff:2019)	112 mg/l
12	Sulphate as SO ₄	IS 3025 Part 24:1986 (Reaff:2019)	55 mg/l
13	Iron as Fe	IS 3025 Part 53:2003 (Reaff:2019)	0.22 mg/l
14	Residual Free Chlorine	IS 3025 Part 26:1986 (Reaff:2019)	BDL (DL:0.1 mg/l)
15	Fluoride as F	APHA 23 rd Edn. 2017:4500 F,D	0.19 mg/l
16	Nitrate as NO ₃	IS 3025 Part 34:1988 (Reaff:2019)	4.9 mg/l

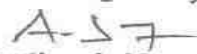
*****End of Report*****

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Authorised Signatory



Name: Santhosh Kumar A
Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

TEST REPORT

Report No	EHS360/TR/2022-23/002	Report Date	02.03.2023
Site Location	Tvl. SRI RAJALAKSHMI SAMAPPA ROUGH STONE & GRAVEL QUARRY S.F.Nos. 1120/2 & 1121/2, Bilichi Village, Coimbatore North Taluk, Coimbatore District. Cluster Extent: 7.23.0 ha		
Sampling Method	SOP Method	Sample Drawn by	Laboratory
Sample Name	Water	Sample Code	EHS360/002
Sample Description	Ground Water (BW -2)	Sample Collected Date	24.02.2023
Qty. of Sample Received	2 Litres	Sample Received On	25.02.2023
Sample Condition	Fit for Analysis	Test Commenced On	25.02.2023
Sampling Location	Periya Puthur		

S.No.	Parameters	Test Method	RESULTS
17	Copper as Cu	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.01 mg/l)
18	Manganese as Mn	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
19	Mercury as Hg	USEPA 200.8	BDL (DL:0.0005 mg/l)
20	Cadmium as Cd	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.001 mg/l)
21	Selenium as Se	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
22	Aluminium as Al	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
23	Lead as Pb	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.005 mg/l)
24	Zinc as Zn	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
25	Total Chromium as Cr	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.02 mg/l)
26	Boron as B	IS 3025 Part 65:2014 (Reaff:2019)	BDL(DL : 0.05 mg/l)
27	Mineral Oil	IS 3025 Part 39-1991 (Reaff. 2019)	BDL(DL : 0.01 mg/l)
28	Phenolic compounds as C ₆ H ₅ OH	IS 3025 Part 43-1992(Reaff: 2019)	BDL (DL:0.0005 mg/l)
29	Anionic Detergents (as MBAS)	IS 13428 – 2005 (Reaff:2019) (Annex K)	BDL (DL:0.01 mg/l)
30	Cyanide as CN	IS 3025 Part 27-1986 (Reaff. 2019)	BDL (DL:0.01 mg/l)
31	Barium as Ba	IS 3025 Part 44:1993 (Reaff:2019)	BDL(DL:0.05 mg/l)
32	Ammonia (as total ammonia-N)	IS 3025 Part 58:2006 (Reaff:2017)	BDL (DL:0.01 mg/l)
33	Sulphide as H ₂ S	IS 3025 Part 38:1989 (Reaff:2019)	BDL (DL:0.01 mg/l)
34	Molybdenum as Mo	IS 3025 Part 65:2014 (Reaff:2019)	BDL (DL:0.02 mg/l)
35	Total Arsenic as As	IS 3025 Part 34-1988 (Reaff. 2019)	BDL (DL:0.005 mg/l)
36	Total Suspended Solids	IS 3025 Part 29-1986 (Reaff: 2019)	BDL (DL:1.0 mg/l)
	Discipline: Biological	Group: Water	
37	Total Coliform	APHA 23 rd Edn. 2017:9221B	220 MPN/100ml
38	<i>Escherichia coli</i>	APHA 23 rd Edn. 2017:9221F	< 1.8 MPN/100ml

*****End of Report*****

Page 1 of 1

Verified by




Authorised Signatory

 Name: Santhosh Kumar A
 Designation: Quality Manager

Note: 1. The test results are only to the sample submitted for test. 2. Any correction of the test report in full or part shall invalidate the report. 3. Sample will be retained for 15 days from the date of reporting except in case of regulatory samples or specifically instructed by client. 4. Perishable samples will be discarded immediately after reporting. 5. Under no circumstance's lab accepts any liability or loss/damage caused by use or misuse of test report after invoicing or issued of test report.

National Accreditation Board for Education and Training

Certificate of Accreditation

Geo Exploration & Mining Solutions, Salem

95/1, Brindavan Road, 4th Cross East, Fairlands, Salem – 636 016 Tamil Nadu

The organization is accredited as **Category-A** under the QCI-NABET Scheme for Accreditation of EIA Consultant Organization, Version 3: for preparing EIA-EMP reports in the following Sectors –

S.No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals opencast only	1	1 (a) (i)	A
2	Industrial estates/ parks/ complexes/areas, export processing Zones (EPZs), Special Economic Zones (SEZs), Biotech Parks, Leather Complexes	31	7 (c)	B
3	Building and construction projects	38	8(a)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in RAAC minutes dated Jan 06, 2023 and posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no QCI/NABET/ENV/ACO/23/2684 dated Feb 20, 2023. The accreditation needs to be renewed before the expiry date by Geo Exploration & Mining Solutions, Salem following due process of assessment.



Sr. Director, NABET
Dated: Feb 20, 2023

Certificate No.
NABET/EIA/2225/RA 0276

Valid up to
August 06, 2025

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to the QCI-NABET website.