

# COMPLIANCE REPORT

TO  
THE CONDITIONS OF

**ENVIRONMENTAL CLEARANCE ORDER**

**No. – 60/2018**

**Issued on: 10-12-2018 and Validity (as per WPC 3799-3800/2019)**

For

**Granite Building Stone Quarry Project (Minor Mineral)**

**Of M/s. S.S.Granites Situated at**

Survey No.	441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2	Taluk	Muvattupuzha
Village	Palakkuzha	District	Ernakulam
State	Kerala	Pin Code	686662
Extent	4.3046 Ha.	Category	B2
Production Capacity Per Annum (as per EC)		2,03,750 metric tons	



SUBMITTED BY

M/s. S.S.Granites  
Palakkuzha Village, Muvattupuzha  
Taluk, Ernakulam District, Kerala

**15<sup>th</sup> COMPLIANCE**  
**OCT 2024 ↔ MAR 2025**

# S S GRANITES

322/XII, Kurangolithadathil Bldgs., Karimpana P.O., Koothattukulam  
Ernakulam Dist., Kerala - 686662

Date: 16.07. 2025

To,  
The Regional Director,  
MOEF Regional Office,  
Southern Zone, Kendriya Sadan,  
4th floor, E&F wing, 2nd Block,  
Koramangala, Bangalore-560034

**Sub: 15th Compliance Report to Environmental Clearance No.- 60/2018 & file No.DIA/KL/MIN/12528/2018 of M/s. S.S. Granites Building Stone Quarry Project situated over an extent of 4.3046 hectare (10.632 acres) in survey numbers 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk and Ernakulam District, Kerala State.**

Dear Sir,

Our Quarry project was accorded with Environmental Clearance vides No. 60/2018 dated 10.12.2018. The 15th compliance report to the specific and general conditions of the Environmental Clearance for the period OCT 2024 - MAR 2025 is enclosed.

Thanking You,

Yours Faithfully,

For M/s. S.S.Granites



**Sabu Varghese**  
**MANAGING PARTNER**



Copy to: 1) The Director,

Directorate of Environment and Climate Change (DoECC)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001

2) The Member secretary,

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001

# S S GRANITES

322/XII, Kurangolithadathil Bldgs., Karimpana P.O., Koothattukulam  
Ernakulam Dist., Kerala - 686662

Date: 16.07. 2025

To,  
The Director,  
Directorate of Environment and Climate Change (DoECC)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001

**Sub:** 15th Compliance Report to Environmental Clearance No.- 60/2018 & file No.DIA/KL/MIN/12528/2018 of M/s. S.S. Granites Building Stone Quarry Project situated over an extent of 4.3046 hectare (10.632 acres) in survey numbers 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk and Ernakulam District, Kerala State.

Dear Sir,

Our Quarry project was accorded with Environmental Clearance vides No. 60/2018 dated 10.12.2018. The 15th compliance report to the specific and general conditions of the Environmental Clearance for the period OCT 2024 - MAR 2025 is enclosed.

Thanking You,

Yours Faithfully,

For M/s. S.S.Granites



**Sabu Varghese**  
MANAGING PARTNER



**Copy to:** 1) The Regional Director,  
MOEF Regional Office,  
Southern Zone, Kendriya Sadan,  
4th floor, E&F wing, 2nd Block,  
Koramangala, Bangalore-560034.

2) The Member secretary,  
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001.

# S S GRANITES

322/XII, Kurangolithadathil Bldgs., Karimpana P.O., Koothattukulam  
Ernakulam Dist., Kerala - 686662

Date: 09.07.2025

To,  
The Member secretary,  
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001

**Sub: 15th Compliance Report to Environmental Clearance No.- 60/2018 & file No.DIA/KL/MIN/12528/2018 of M/s. S.S. Granites Building Stone Quarry Project situated over an extent of 4.3046 hectare (10.632 acres) in survey numbers 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk and Ernakulam District, Kerala State.**

Dear Sir,

Our Quarry project was accorded with Environmental Clearance vides No. 60/2018 dated 10.12.2018. The 15th compliance report to the specific and general conditions of the Environmental Clearance for the period OCT 2024 - MAR 2025 is enclosed.

Thanking You,

Yours Faithfully,

For M/s. S.S.Granites



**Sabu Varghese**  
**MANAGING PARTNER**



**Copy to:** 1) The Director,  
Directorate of Environment and Climate Change (DoECC)  
4th Floor, K.S.R.T.C Bus Terminal Complex, Thampanoor,  
Thiruvananthapuram, Kerala -695 001.

2) The Regional Director,  
MOEF Regional Office,  
Southern Zone, Kendriya Sadan,  
4th floor, E&F wing, 2nd Block,  
Koramangala, Bangalore-560034.

## TABLE OF CONTENTS

SI NO.	Descriptions	Page No
1.	INTRODUCTION	2
	A. Basic details about the Firm.	2
	B. General details about the project.	2
	C. Accessibility or Route to quarry project	2
	<b>PART -A</b>	
2.	GENERAL CONDITIONS COMPLIANCE REPORT GC-1 to GC-62.	3-11
	<b>PART -B</b>	
3.	SPECIFIC CONDITIONS COMPLIANCE REPORT SPC-1 to SPC-12.	12-13
4.	PLATES	14-24
5.	ANNEXURES	25-80
	Annexure-1 – Environment Clearance copy	25-37
	Annexure-2 – Quarry Lease order	38-43
	Annexure-3 – KSPCB Consent	44-47
	Annexure-4 – Explosive License	48-52
	Annexure-5 – Mining Plan and Scheme Approval Letter	53-54
	Annexure-6 – Panchayath License	55-57
	Annexure-7 – EC undertaking Certificate	58-59
	Annexure-8– Blast Man/ Second Class Mines Manager Certificate	60-63
	Annexure- 9– Public Notice Advertisement	64
	Annexure- 10– NABL certificate of laboratory	65
	Annexure- 11– Air, Nose and water Monitoring lab reports.	66-74
	Annexure- 12– Copy of CER Fund	75
	Annexure- 13– Environment Monitoring Cell	76
	Annexure- 14– Depth to Water table in nearest Dug Well	77-80



  
 SABU VARGHESE  
 MANAGING PARTNER  
 M/s. S.S.Granites

## INTRODUCTION

### A. Basic details about the Firm.

M/s. S.S.Granites is a Partnership Firm registered under Partnership Act, 1956 represented by the Managing Partner and Authorized signatory Sri Sabu Varghese who is well experienced in the field of granite building stone mining operations for the last seven years and has operated other quarry by obtaining valid Permit/Pass.

M/s.S.S.Granites has obtained Environmental Clearance bearing no. 60/2018 from District Environment Impact Assessment Authority, (DEIAA), Ernakulam and also Quarry Lease from the State Government (Department of Mining and geology) over an extent of 4.3046 hectare (10.632 acres) in survey numbers 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk and Ernakulam District, Kerala State.

M/s. S.S.Granites has also obtained Consent from Kerala Pollution control board, Explosive Licence from Explosive Department and Panchayat Licence which are statutory requirements for Quarry operations and also involved in producing sized ROM by Scientific Mining using Heavy Earth Moving Machineries (HEMM) by forming benches with Controlled Blasting techniques. The Sized Rom material is sold in the local market and used for various construction purposes.

### B. General details about the project.

❖ Production Capacity ( as per EC) : 2,03,750 Metric Tons per annum

<b>PERMISSIONS</b>	<b>VALIDITY</b>	<b>DOCUMENT No.</b>
EC validity	28-07-2025	60/2018 (based on the directions of the Hon'ble High Court of Kerala in WP (C) No-3799-3800/2019, Dated-22-05-2025.)
Quarry Lease Proceedings order	21-02-2031	786/2018-19/8253/M3/2017/DMG
Lease Deed	21-02-2031	374/019
KSPCB Consent	31-03-2025	KSPCB/ER2/ICO/10089245/2024
Explosive Licence	31-03-2029	E/SE/KL/22/270 (E126207)

### C. Accessibility or Route to quarry project (From Aluva).

➤ ALUVA → PERUMBAVOOR → MUVATTUPUZHA → MARADY → AROOR → MANATHOOR KAVALA → TO SITE: Total Distance 47.7 km shown as **PLATE-9A.**( Fastest Route- Route Map).

# PART A.

## GENERAL CONDITIONS COMPLIANCE REPORT

Item No.	EC Condition	Status of Compliance	Remarks
<b>GC1</b>	Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/ KPBR, unless otherwise specified.	Lower Mine Pits is used as Rain water storage Area and Rain Water harvesting as shown in <b>PLATE-3A.</b>	Complied
<b>GC2</b>	Environment Monitoring cell as agreed under affidavit filed by the proponent should be formed and made functional.	Environment Monitoring Cell formed under Managing Partner Mr. Sabu Varghese and meeting held on 10.02.2025. Shown as <b>Annexure-13.</b>	Complied
<b>GC3</b>	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.	Avenue trees are planted along either side of the tarred road and open parking areas inclusive of approach road and internal roads as shown in <b>PLATE-2A &amp;2B.</b>	Complied
<b>GC4</b>	Maximum possible solar energy generation and utilisation shall be ensured as an essential part of the project.	Quarry operations done only in day light therefore Solar energy is used for the purpose of lighting in haulage and Mine Office. 4 solar Lights of 60 watts each installed.	Complied
<b>GC5</b>	Sprinklers shall be installed and used in project site to contain dust emissions.	2 Water Tanker of 6KL Truck Mounted used for water sprinkling is used in mines to contain dust emissions as shown in <b>PLATE-8B.</b>	Complied
<b>GC6</b>	Eco-Restoration including the mine closure plan shall be done at the own cost of the project proponent	Part of worked out benches back filled with Topsoil and plantation done in SW side.	Complied
<b>GC7</b>	At least 10 % out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.	Since Production work is continuous it shall be ensured that the directions contained are scrupulously followed at the time of the closure of the mine as per Progressive Mine Closure Plan.	Will be Complied
<b>GC8</b>	Corporate Environmental Responsibility (CER) agreed upon by the proponent should be implemented	Expenditure incurred on account of CER for the period from Oct 2024 to Mar 2025 is Rs.2,00,000/-. Paid to Palakkuzha Panchayath Office for Welfare	Complied

		amenities and shown as <b>Annexure-12.</b>	
<b>GC9</b>	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.	Barbed Wire Fencing Provided all around the Mining Lease area and Boundary pillars with GPS readings erected to demarcate the boundary as shown in <b>PLATE-1A &amp; 1B.</b>	Complied
<b>GC10</b>	Warning alarms indicating the time of blasting has to be arranged as per stipulations of explosive department.	Warning alarms indicating the time of blasting has been arranged.	Complied
<b>GC11</b>	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Suitable measures are implemented and Noise and Vibration levels are under control The dust and sound levels were monitored through an NABL accredited laboratory during the quarry in operation and the monitored results are well within the standards applicable. The copy of the ambient air quality monitoring report, ambient sound monitoring report, quality of drinking water along with the comparative chart is provided as <b>Annexure -11.</b>	Complied
<b>GC12</b>	Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	Quarry is operated in Day Light only between 8am to 5pm. No night operations.	Complied
<b>GC13</b>	Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.	Blasting is carried out safely adhering to the conditions specified in the licence LE-3 as per Indian Explosive Rules 2008 shown as <b>Annexure-4.</b>	Complied
<b>GC14</b>	A licensed person should supervise /control the blasting operations.	Blasting Carried out under Statutory Mines Manager and Mining Mate and copy of his certificate Shown as <b>Annexure-8.</b>	Complied
<b>GC15</b>	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access road with Plantation alongside developed to the quarry site and tarred as shown in <b>PLATE-2A &amp; 2B.</b>	Complied
<b>GC16</b>	Overburden material should be managed within the site and used for reclamation of mine pit as per mine closure plan/specific conditions.	Overburden is stacked in pre-determined site outside the mining lease area specified for the purpose.	Complied

<b>GC17</b>	Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in the mine plan/specific condition.	Height and width of benches is will be maintained as 5 m x 5 m and work done as per Mining Plan as shown in <b>PLATE- 4B.</b>	Complied
<b>GC18</b>	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Since controlled Blasting technique using delay detonators is practised at site, which results in less PPV and fly rocks, therefore Mats are not required and will be used if required during blasting.	Complied
<b>GC19</b>	Maximum depth of mining from General ground level at site shall not exceed 10 m.	Scientific and safe working procedures is practised by forming benches and ensure that maximum depth of mining Shall not intersect the ground water table shown in <b>PLATE- 4B .</b>	Complied
<b>GC20</b>	No mining operations should be carried out at places having a slope greater than 45°	It is ensured that no mining is carried out at places having a Slope greater than 45°.	Complied
<b>GC21</b>	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	No crusher at site only quarrying operations done with Heavy Earth Moving Machineries. Trees around the Mining area acts as natural buffer as shown in <b>PLATE-2A &amp; 3A.</b>	Complied
<b>GC22</b>	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The workers on the site are provided with the required protective equipment such as ear muffs, helmet, safety shoes, dust mask as shown in <b>PLATE-3B.</b>	Complied
<b>GC23</b>	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	The quarry has a natural dendritic drainage pattern. Rain water from higher elevations follows the slope towards the lower elevation i.e., from East to West in the present quarry.	Complied
<b>GC24</b>	The transportation of minerals should be done in covered trucks to contain dust emissions.	Sized ROM is loaded to truck using Excavator and covered with Tarpaulins before transportation to contain dust emissions as shown in <b>PLATE-6A &amp; 6B.</b>	Complied
<b>GC25</b>	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Most of the plantation around the quarry area Planted previously since the mine was in operation and Also plantation are done yearly as specified in the mining	Complied

		plan. The plantation surrounding the mine is shown in <b>PLATE-2A &amp; 3A.</b>	
<b>GC26</b>	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Disposal of spent oil from excavators during oil change will be done as per relevant Rules / Regulations.	Complied
<b>GC27</b>	Explosives should be stored in magazines in isolated place specified and approved by explosive department.	Explosives Stored in magazines as specified and as approved by explosive department by obtaining relevant Licence as shown in <b>Annexure-4.</b>	Complied
<b>GC28</b>	A minimum buffer distance of 50 m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	Minimum 100 m from the quarry boundary maintained to the nearest dwelling unit or structure and the boundary is well fenced using barbed wires.	Complied
<b>GC29</b>	50m buffer distance should be maintained from forest boundaries.	No social or reserve forest near by the mining area.	Complied
<b>GC30</b>	Consent from Kerala state pollution control board under Water and Air act(s) should be obtained before initiating mining activity.	Valid Consent from KSPCB is obtained and shown as <b>Annexure -3.</b>	Complied
<b>GC31</b>	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	Clearances are obtained from : 1. Quarry Lease from Department of Mining and Geology shown as <b>Annexure -2.</b> 2. Consent from Kerala State Pollution Control Board shown as <b>Annexure-3.</b> 3. Permission for storage and use of explosive from PESO (Explosives Dept) shown as <b>Annexure -4.</b> 4. Panchayat Licence from Palakkuzha panchayath shown as <b>Annexure- 6.</b>	Complied
<b>GC32</b>	In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the E.C is Issued, the project would require a fresh appraisal the proponent shall get the approval .	If there is any change in the scope of the project the Firm shall abide by the directions of SEIAA and apply for a fresh appraisal within the specified time period.	Agreed and complied

<b>GC33</b>	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguards measures in a time bound and satisfactory manner.	The Firm shall abide by the directions of SEIAA Kerala in such a context, if arises.	Agreed
<b>GC34</b>	The stipulations by statutory authorities under different acts and Notification should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act 1986, The Public liability (Insurance) Act, 1991, and E.I.A. Notification, 2006.	Suitable measures are implemented to control noise and vibration levels. Strict compliance is adhered and is reviewed periodically. The dust and sound levels were monitored through an NABL accredited laboratory during the quarry in operation as Shown in <b>PLATE-4A, 4B, 5A, 5B,7A 7B &amp; 8A</b> and the monitored results are well within the standards applicable. The Environmental monitoring reports (Ambient Air, sound, water & Soil) with the comparative chart is provided as <b>Annexure-11</b> .	Complied
<b>GC35</b>	The Project proponents should advertise in at least two local newspapers widely circulated in the region, One of which (both the advertisement and newspaper) Shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the SEIAA office and may also be seen on the website of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . The advertisement should be made within 10days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as conformation.	Advertisements regarding the obtaining of Environmental Clearance were given in two local news paper- <b>Annexure-9</b>	Complied
<b>GC36</b>	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body .The EC shall also be put on the website of the company by the proponent.	Copy of EC has been sent to Secretary, Palakkuzha Grama Panchayat and the copy of the same is shown as <b>Annexure -6</b> .	Complied

<b>GC37</b>	The Proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. Of India and also to the SEIAA office Kerala.	All conditions are being complied. This report is in Compliance with the submission of 15th HYCR compliance reports for the period from OCT 2024 to MAR 2025.	Agreed & Complied
<b>GC38</b>	The details of EC should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.	The conditions of Environmental Clearance are prominently displayed in a metallic board of 3 Ft x 3 Ft with green background and yellow letters of Times New Roman font of size of not less than 40 and shown in <b>PLATE-10 A &amp; PLATE 10 B.</b>	Complied
<b>GC39</b>	The Proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Assurance in the form of affidavit was submitted stating all the conditions stipulated in the EC shall be scrupulously followed and the copy of the same is attached at <b>Annexure -7.</b>	Complied
<b>GC40</b>	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	The Firm shall abide by the directions of SEIAA Kerala in such a context, if arises.	Agreed & Will Comply if required
<b>GC41</b>	The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	There is no natural water resource in and around mining lease area.	Agreed & Will Comply if required
<b>GC42</b>	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	The copy of the ambient air quality monitoring report, with the comparative chart is provided at <b>Annexure -11.</b> Truck mounted water sprinkler is used at loading points and haulage roads to reduce dust emissions as shown in <b>PLATE 4A, 4B &amp; 7A.</b>	Complied

<b>GC43</b>	The top soil, if any, shall temporarily be stored at earmarked site (s) only for the top soil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. The entire excavated area shall be backfilled, Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Top soil and over burden stored separately outside the Mining lease area belonging to the applicant. Plantations around the OB dump done to prevent erosion and surface runoff. Since mining operation is continuous backfilling will be done at the end stage of mining as per Progressive mine closure plan.	Complied
<b>GC44</b>	Catch drains and siltation ponds of appropriate sizes shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Catch drain along with parapet w constructed below the OB dump yard to prevent runoff water and flow of sediments.	Complied
<b>GC45</b>	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM <sub>10</sub> and PM <sub>2.5</sub> such as haul Road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the CPCB in this regard.	Truck mounted water sprinkler is used at loading points and haulage roads to reduce dust emissions. The copy of the ambient air quality monitoring report, with the comparative chart as per Central Pollution Control Board is provided at <b>Annexure -11</b> .	Complied
<b>GC46</b>	Fugitive dust emissions from all sources should be controlled. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.	Truck mounted water sprinkler is used at loading points and haulage roads to reduce dust emissions as shown in <b>PLATE- 8B</b> .	Complied
<b>GC47</b>	Measures should be taken for control of noise levels below 85dBA in the work environment.	Periodical overhauling of Machineries carried out to reduce excess noise. Delay detonators used in Blasting to avoid excess noise. Ear muff are provided to drillers and operators as safety measure.	Complied

<b>GC48</b>	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Formed Under Managing Partner Shown as <b>Annexure-13</b>	Complied
<b>GC49</b>	The funds earmarked for environmental protection measures and CER activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the SEIAA office.	The Firm shall abide by the directions of SEIAA Kerala and keep funds separately and report the expenditure incurred on environmental protection and CER activity.	Agreed & complied
<b>GC50</b>	The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer of the Regional Office by furnishing the requisite data/information/monitoring reports.	Full support will be extended to MoEF and CC officials to inspect the mines and Will furnish required data/information and monitoring reports.	Agreed
<b>GC51</b>	Any appeal against this Environment Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the NGT Act, 2010.	No appeal against this Environment clearance till date of this compliance.	Agreed
<b>GC52</b>	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	All data provided to obtain Environment clearance are true and not concealed any information and if found guilty the SEIAA authority may take suitable action.	Agreed
<b>GC53</b>	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	All specific and general conditions will be implemented during the mining operation phase as per the Environment clearance obtained.	Agreed
<b>GC54</b>	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Specific and General conditions will be adhered	Agreed
<b>GC55</b>	This order is valid for a period of 5 years or expiry date of mine lease period issued by the Government of Kerala.	Valid Up to 28-07-2025 (based on the directions of the Hon'ble High Court of Kerala in WP (C) WP (C) No-3799-3800/2019, Dated-22-05-2025.)	

<b>GC56</b>	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.	No any litigation related to land or project pending in any court of law till date of this compliance.	Agreed
<b>GC57</b>	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	Mining operation is carried out above ground level with top RL 160 msl and bottom RL 100 msl as shown in <b>PLATE- 3A</b> .	Agreed & Complied
<b>GC58</b>	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.	All vehicles have valid PUC Certificate. No washing of vehicles carried out inside the mining lease area.	Agreed
<b>GC59</b>	Project Proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.	No crusher/ washing unit is installed therefore water is only used for sprinkling and drinking. Daily 2KL used for Drinking and washing purpose and 5KL for dust suppression and Afforestation. If required prior permission will be obtained from competent authorities.	Agreed & will Comply if required
<b>GC60</b>	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.	No upstream and downstream water near by the mining lease area.	Agreed & will Comply if required
<b>GC61</b>	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Yearly once Occupational health surveillance check up planned and carried out for workers in mines involved in drilling, loading and hauling operations	Agreed & Complied
<b>GC62</b>	Commitment of CST should be fulfilled	Fulfilled as per CST rules	Complied

## PART B.

### SPECIFIC CONDITIONS COMPLIANCE REPORT

Item No.	EC Condition	Status of Compliance	Remarks
<b>SPC1</b>	The applicant should establish a permanent Bench Mark outside the mining area from which the relative depths of mining should be established and submitted in the calculation as well as in drawings	Boundary Corner Pillars <b>BP 16 &amp; BP 17</b> of the mining lease established as Permanent Bench Mark which will not be disturbed during mining / quarry operations	Complied
<b>SPC2</b>	The relative levels from the established bench marks should be permanently marked in the boundary points.	All Boundary Pillar Fixed & GPS readings Marked on the pillar <b>PLATE-1A &amp;1B.</b>	Complied
<b>SPC3</b>	The solid waste generated during the course of operation shall be utilized for formation of safety bunds all along 7.5m safety zone, internal road maintenance and green belt works	Since Mine Operation and Production work is continuous, restoration will be done during the end stage of Mining at suitable places as per Progressive Mine Closure Plan.	Will be Complied
<b>SPC4</b>	Sufficient number of suitable parapet walls shall be made all along quarries, Haulage roads where ever necessary in order to maintain safe working conditions.	All attempt made to maintain safe working conditions and safety bunds have been provided at the top bench and Barbed wire fencing done to avoid unauthorised humans and animals.	Complied
<b>SPC5</b>	Proper blast design avoiding over charging and controlled blasting techniques shall be adopted.	Controlled Blasting technique using delay detonators is practised at sites, which results in less PPV and fly rocks. Powder Factor Fixed at optimum rate.	Complied
<b>SPC6</b>	Construction of garland drains to divert surface run off away from mining area shall be implemented	The quarry has a natural dendritic drainage pattern. Rain water from higher elevations follows the slope towards the lower elevation i.e., from East to West in the present quarry	Complied

<b>SPC7</b>	Environmental auditing shall be done every year and same shall be reported to District Collector through District Geologist.	Accepted and will be followed	Will be Complied
<b>SPC8</b>	Quarrying area shall be under water sprinklers for dust control	Haul roads are water sprinkled as shown in <b>PLATE- 8B.</b>	Complied
<b>SPC9</b>	Ideal locations shall be identified in and around quarry site suitable for rain water harvesting	Mined out lower level quarry pit will act as storm water storage and rain water harvesting.	Complied
<b>SPC10</b>	Implementation of artificial geo-textiles shall be promoted along borders of buffer zone where chances of rock creep may exist during rainy season.	The rock is intact and chance of rock creep is negligible	Complied
<b>SPC11</b>	Future excavations shall be conducted by strictly forming systematic benches as per the norms of Mine Safety Departments and Kerala Minor Mineral Concession Rules 2015	Mine operations carried out as per approved mining plan and adopting bench system mining. All statutory norms will be followed	Complied
<b>SPC12</b>	All quarry workers shall be allowed to enter the blasting area only with personal protective equipments (helmets, safety shoes, reflecting jackets...etc)	Safety PPE provided as shown in <b>PLATE-3B.</b>	Complied



SABU VARGHESE  
MANAGING PARTNER  
M/s. S.S.Granites

# PLATES









**PLATE-5A**

**AMBIENT SOUND QUALITY MONITORING AT QUARRY SITE DURING MINING**



WH3W+9CQ, Aaroor - Marygiri Church Rd, Kerala 686662, India

Latitude  
9.90098392°

Longitude  
76.59643185°

Local 10:24:28 AM

Altitude 134 m

**PLATE-5B**

**VIEW OF QUARRY WITH MINE BENCHES, GREEN BELT, PLANTATION DURING SOUND**



WH3W+9CQ, Aaroor - Marygiri Church Rd, Kerala 686662, India

Latitude  
9.90098822°

Longitude  
76.59642938°

Local 10:24:52 AM

Altitude 134 m







PLATE-8A

WELL WATER SAMPLE NEAR CANTEEN COLLECTED FOR TESTING WATER QUALITY



GPS Map Camera Lite

WH3W+9CQ, Aaroor - Marygiri Church Rd, Kerala 686662, India  
Latitude 9.90363633° Longitude 76.59611693°



PLATE-8B

Dust Suppression by Water Sprinkling at Mine Benches

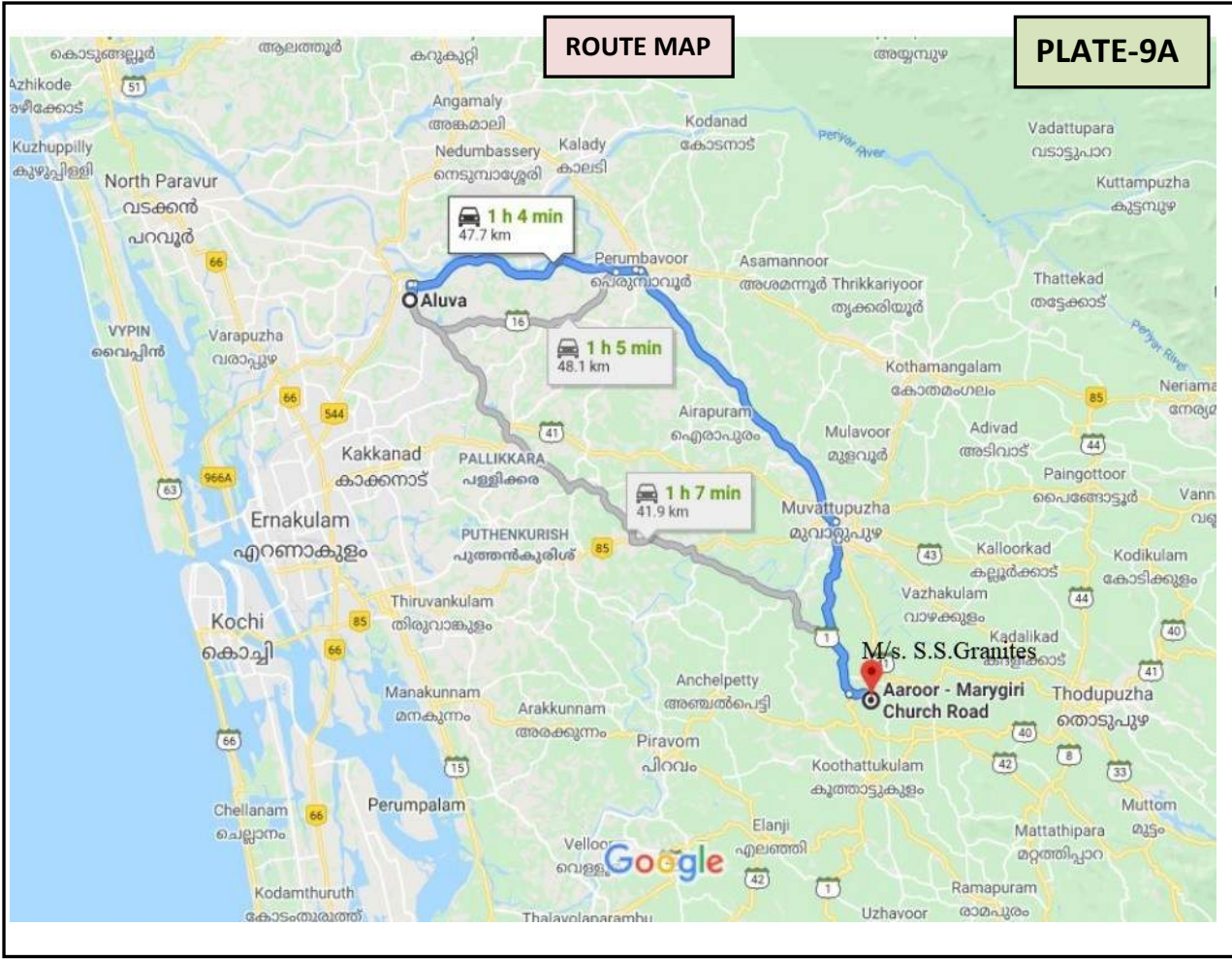




PLATE-10A

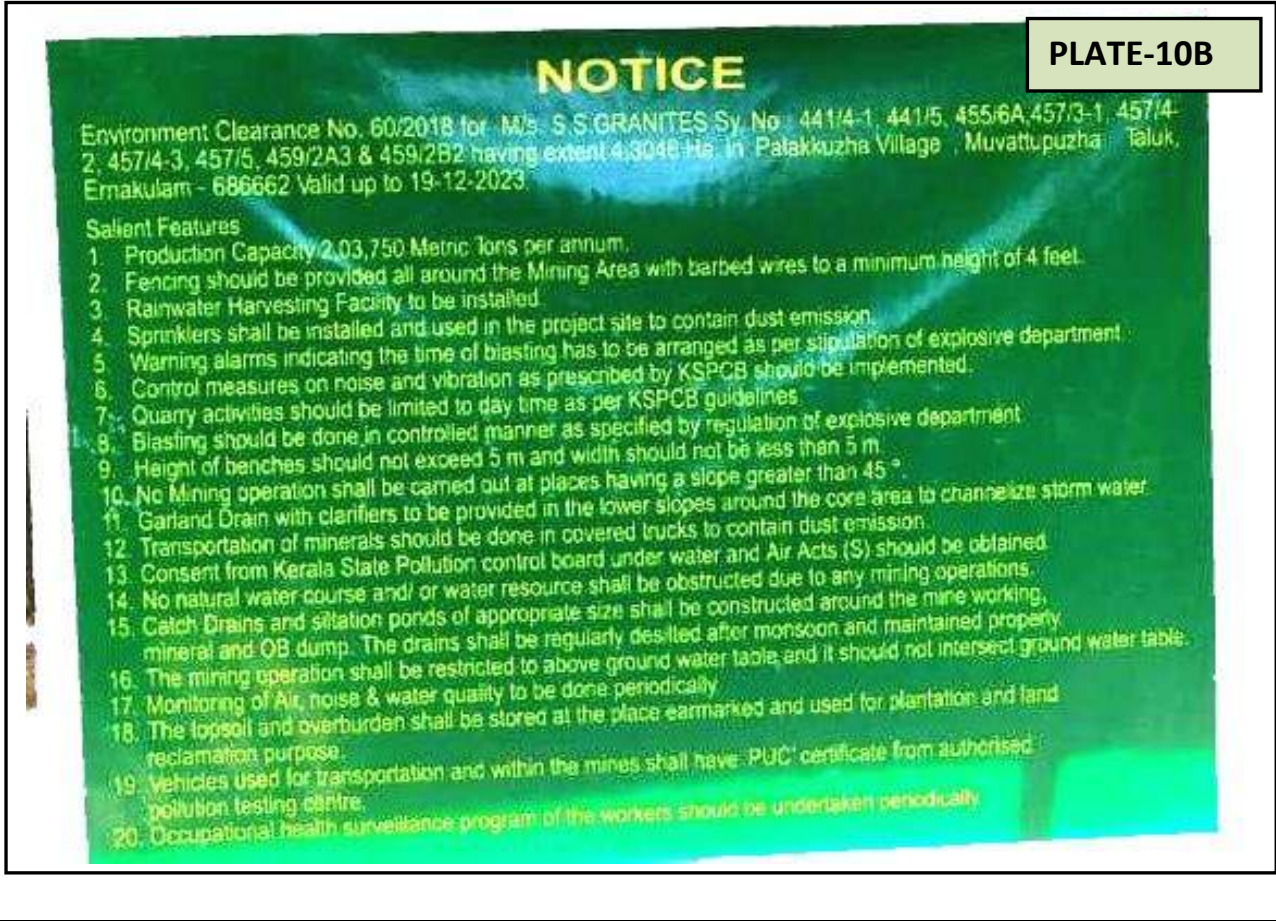


PLATE-10B



# **ANNEXURE**

Proceedings of the District Environment Impact Assessment Authority (DEIAA), Ernakulam (Present. Sri. Muhammed Y Safirulla. IAS, District Collector & Chairman DEIAA, Sri. Snehil Kumar Singh. IAS, Member Secretary, DEIAA & Sub Collector, Fort Kochi, Sri. A. Renjan I.F.S, DFO Malayattoor & Member DEIAA, Dr. P.S. Easa, Member National board for Wildlife & Member DEIAA.)

Environmental Clearance No.60/2018  
Building Stone Quarry (68)

No. P/333/2018  
DIA/KL/MIN/12528/2018

Ernakulam.  
Dated.10/12/2018

Sub: - DEIAA Ernakulam – meeting held on 05/11/2018 – Environmental clearance for excavation of Granite Building Stone – Orders issued

- Ref: - 1. Minutes of the meeting of 21<sup>st</sup> DEIAA held on 05/11/2018 at Chamber of District Collector, Ernakulam.  
2. Minutes of the meeting of 20<sup>th</sup> DEAC held on 06/04/2018.  
3. Minutes of the meeting of 21<sup>st</sup> DEAC held on 03/05/2018.  
4. Application filed by Sri Sabu Varghese, M/s S.S. Granites, Korangolithadathil House, Karimpana P.O., Koothattukulam, Ernakulam , Kerala.

\*\*\*\*\*

Sri Sabu Varghese, M/s S.S. Granites, Korangolithadathil House, Karimpana P.O., Koothattukulam, Ernakulam , Kerala filed an application for an Environment Clearance for Mining of Granite Building Stone from the Survey Nos. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 in Palakkuzha Village, Muvattupuzha Taluk. The total area of land is 4.3046 hectares and the capacity of the Mining is ROM 2, 03,750 TPA (Salable 1, 93,562 TPA).

**THE DETAILS AS MENTIONED IN FORM 1M(APPENDIX VIII) OF THE APPLICATION.**

1	Proposal No.	DIA/KL/MIN/ 12528 /2018		
2	Name of Mining Lease Site	Building Stone Quarry of M/s S.S. GRANITES.		
3	Location / site (GPS Co-ordinates)	B.P.No	Latitude	Longitude
		01	N : 09° 54' 6.85"	E : 76° 35' 47.83"
		02	N : 09° 54' 5.97"	E : 76° 35' 47.60"
		03	N : 09° 54' 4.53"	E : 76° 35' 49.33"
		04	N : 09° 54' 5.76"	E : 76° 35' 50.62"
		05	N : 09° 54' 5.33"	E : 76° 35' 51.43"
		06	N : 09° 54' 4.74"	E : 76° 35' 52.61"
		07	N : 09° 54' 4.12"	E : 76° 35' 53.69"
		08	N : 09° 54' 3.96 "	E : 76° 35' 53.56"
		09	N : 09° 54' 2.87"	E : 76° 35' 56.15"
		10	N : 09° 54' 0.89 "	E : 76° 35' 55.45"
		11	N : 09° 53' 59.66"	E : 76° 35' 54.39"
12	N : 09° 54' 0.18 "	E : 76° 35' 53.64"		



SUB COLLECTOR  
FORTKOCHI

		13	N : 09° 54'0.41 "	E : 76° 35'53.12"
		14	N : 09° 54'0.87 "	E : 76° 35'51.87"
		15	N : 09° 53'59.81 "	E : 76° 35'50.06"
		16	N : 09° 54'1.25 "	E : 76° 35'48.07"
		17	N : 09° 54'0.74 "	E : 76° 35'46.22"
		18	N : 09° 54'1.43 "	E : 76° 35'44.49"
		19	N : 09° 54'2.60 "	E : 76° 35'45.10"
		20	N : 09° 54'3.14 "	E : 76° 35'47.35"
		21	N : 09° 54'4.15 "	E : 76° 35'46.93"
		22	N : 09° 54'4.80 "	E : 76° 35'46.38"
		23	N : 09° 54'5.17 "	E : 76° 35'45.66"
		24	N : 09° 54'6.93 "	E : 76° 35'45.11"
4	Size of the Mining Lease	4.3046 Ha		
5	Capacity of Mining Lease (TPA)	ROM 2,03,750 TPA( Salable 1,93,562 TPA)		
6	Period of Mining Lease	5 years		
7	Expected cost of the Project	1.50 Crores		
<b>Environmental Sensitivity</b>				
8	Distance of Project site from nearest rail or road bridge over the concerned River, Rivulet, Nallah etc	Thodupuzha River is at 5.5 Kms (NE)		
	Distance from infrastructural facilities	Arakkuzha- 5 km		
	Railway Line	Kochi Station is at 39 Kms (Aerial Distance)		
	National Highway	NH-7 at 32 Kms (Aerial Distance)		
	State Highway	Main Central (M C) Road at 900 mtrs west of the lease area.		
9	Major District Road	Moovattupuzha-Koothakulam Road.1.60 Km(W)		
	Any other Road	Public Road is connecting MC Road- Pandappilly is passing about 0.9 km to the North the lease area		
	Electric Transmission line pole or tower	Koothattukulam-6.5 km.		
	Canal or check dam or reservoirs or lake or ponds	Pandappaly-1.8 km.		
	In take for Drinking water	MVIP arakkuzha-5.3 km		

District Environment Impact Assessment Authority [DEIAA]

Page - 2 -

SUB COLLECTOR  
FORTKOCHI



	Intake for irrigation	MVIP canal Arakkuzha-5.3 km.
10.	Areas protected under international conventions, National or Local legislation for their ecological, landscape, cultural or other related value.	None within 5 km radius
11.	Areas which are important or sensitive for ecological reasons- wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	Todupuzha River is at 3.2 Kms (NE)
12.	Areas used by protected, important or sensitive species of flora or Fauna for breeding, nesting, foraging, resting, over wintering, migration.	None within 5 km radius
13	Inland, Coastal, Marine or underground waters	None within 5 km radius
14	State, National boundaries	None within 5 km radius
15	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	None within 5 km radius
16	Defense Installations	None within 5 km radius
17	Densely populated or built-up area, distance from nearest human habitation	Koothattukulam an aerial distance of 5 km
18	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	<p><b><u>Schools &amp; Colleges</u></b></p> <ol style="list-style-type: none"> <li>1. St Joseph Girls High School-Arakuzha 4.9km</li> <li>2. St Mary's Higher secondary School-Arakuzha 5.4 km</li> <li>3. Govt.Model High School-Palkuzha 4 km</li> <li>4. Manimalakkunnu Govt. college 7.2km</li> </ol> <p><b><u>Hospitals</u></b></p> <ol style="list-style-type: none"> <li>1. S H Hospital- Arakuzha 5.3 km</li> <li>2. Govt Hospital- palakuzha 3.5 km</li> <li>3. Veterinary Hospital -Palakuzha. 3.6 km</li> <li>4. Panchayath Homeo Dispensary- Arakuzha. 4.5km</li> <li>5. Deva Matha Hospital- Koothattukulam 6 km</li> </ol> <p><b><u>Worship</u></b></p> <ol style="list-style-type: none"> <li>1. St JMary Foranc Church- Arakuzha5.8 km</li> <li>2. St ude shrine-Uppukkundam 1.2 km</li> </ol>



		<p>3. St. Mary's Church, -Pandappilly 1.8km</p> <p>4. St. Jhon Baptist Catholic Church-Vadakara 6 km</p> <p>5. Bhagavathi Temple-Palakuzha 2.5 km</p> <p>6. Sree Subramanya-Ambalamkannu 7 km.</p>
19	Areas containing important high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No
20	Area already subjected to pollution or environmental damage (those where existing legal environmental standards are exceeded)	No. this Fresh proposal.
21	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No, lease area is not susceptible to natural hazard, as there is no history of such incidents.
22	Is proposed mining site located over or near fissure / fracture for ground water recharge	No-geological disturbances are observed, The quarry will act as a reservoir & shall help in ground water recharging.
23	<p>Whether the proposal involves approval or clearance under the following regulations or acts, namely</p> <p>(a) The Forest (Conservation) Act, 1980</p> <p>(b) The Wildlife (Protection) Act, 1972</p> <p>(c) The Coastal Regulation Zone Notification, 2011</p> <p>If yes, details of the same and their status to be given</p>	No
24	Forest land involved (hectares)	No forest land is involved.
25	<p>Whether there is any litigation pending against the project and /or land in which the project is propose to be set up</p> <p>(a) Name of the Court</p> <p>(b) Case No.</p> <p>(c) Orders or directions of the Court, if any, and its relevance with the proposed project.</p>	As per FORM 1M applicant has stated that no litigation pending against the project and /or land in which the project is propose to be set up.
26	Type of Land	Private Patta Land

**TECHNICAL SCRUTINY AND ENVIRONMENTAL IMPACT ASSESSMENT BY DEAC**

District Environment Impact Assessment Authority [DEIAA]

Page - 4 -

SUB COLLECTOR  
FORTKOCHI



The proposal was placed in the 20<sup>th</sup> DEAC meeting held on 06/04/2018. ( Reference 2). The committee appraised the proposal and decided to defer the item for field visit by the sub committee concerned. The DEAC sub committee visited the Quarry project site of Sri Sabu Varghese, M/s S.S. Granites, Palakkuzha Village and Muvattupuzha Taluk and submitted the report to DEAC.

**The field inspection details as reported by DEAC (Reference 3).**

The proposed quarry is located between north latitudes 9<sup>0</sup>53'59.66" and 9<sup>0</sup>54'06.93" and east longitudes 76<sup>0</sup>35'44.49" and 76<sup>0</sup>35'56.15". Geologically the area is occupied by hard crystalline rocks representing Precambrian metamorphosed rocks. The applied area forms the upper side slope portion of a hilly terrain which, in general, slopes towards north-west. The reported highest elevation of the applied area is 170m AMSL and lowest is 110m AMSL. This proposal corresponds to a fresh quarry i.e., the applied area is virgin and the major portion is occupies by mixed crops. Rock exposures comprises of complex associates of charnockites, quartz, feldspathic and biotite gneiss. The overburden thickness averages about 1m to 2m. ( Reference 3).

The inspection team, in general, looked into the impacts on eco-system, flora, fauna, soil, land form, air quality etc, which are likely to alter with the onset of quarrying operations. The potential for natural hazards such as landslides, surface creep, erosion, flooding or any adverse environmental conditions during the time of mining are ruled out, provided if mining is carried out in accordance with the approved mining plan. ( Reference 3).

Groundwater generally occurs under phreatic conditions in weathered and fractured crystalline rocks and laterite. It occurs under semi-confined conditions in the deep seated fractured aquifer of the crystalline rocks and tertiary sediments. The geologic zone important to ground water is identified in terms of water holding and water yielding capabilities. Porous granular formations like laterite, weathered and decomposed crystalline rocks as well as fissures, joints and fractures in crystalline rocks constitute the main water-bearing formations. The water table is below 4m-5m from general ground level as observed from an open well located 150 meters further north from the applied area. ( Reference 3).

There are no perennial water courses or streams within the applied area. The rain water passes as minor water courses through natural geographic slope and joins the local water bodies forming dendritic drainage pattern. The proposed site does not possess any valuable resources other than granite

building stone. The revenue official present at the time of inspection reported that the area is not under any legal procedures. ( Reference 3).

Considering all the aspects the DEAC approved the mining project and recommended DEIAA to grant Environmental Clearance. ( Reference 3).

### **DEIAA DECISIONS**

As per DEAC recommendation, DEIAA considered the project proposal. The applicant submitted detailed CSR and remitted Rs. 1, 00,000/- (Rupees One Lakh Only) as processing fee vide chalan no. KL010394902201718M dt. 02/02/2018 of District Treasury, Ernakulam. The applicant has submitted a CSR plan of Rs.2,00,000/- (Rupees Two Lakh Only) as recurring and non recurring expenses for CSR activities.

The proposal was considered in the 21<sup>st</sup> meeting of DEIAA (Reference 1). The DEIAA committee decided to grant Environmental Clearance to the quarry project of Sri Sabu Varghese, M/s S.S. Granites, Kurangolithadathil House, Karimpana P.O., Koothattukulam, Ernakulam , Kerala in strict compliance with the following General conditions and specific conditions recommended by DEAC.

### **GENERAL CONDITIONS**

1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.



8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.
9. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings etc) shall be protected at all times and shall be conspicuous.
10. Warning alarms including the time of blasting ( to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB should be implemented.
13. Blasting should be done in a controlled manner as specified by regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/specific conditions.
17. Height of benches should not exceed 5m, and width should not be less than 5m, if there is no mention in the mining plan/specific condition.
18. Mats to reduce fly rock blast to maximum of 10PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m.
20. No mining operations should be carried out at places having a slope greater than 45°.
21. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.
25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be specified under relevant rules/regulations.

27. Explosives should be stores in magazines in isolated place specified and approved by the Explosives Department.
28. A minimum buffer distance of 50m from the boundary of the quarry to the nearest dwelling unit or other structures not being any facility for mining shall be provided.
29. 50m buffer distance should be maintained from forest boundaries.
30. Consent from Kerala State Pollution Control Board under Water and Air Act(S) should obtained before initiating mining activity.
31. All other statutory clearance should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of Explosives.
32. In the case of any changes in the scope of the project, extent quality, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the EC is issued, the project would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of this authority.
33. The authority reserves the right to add the additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provision of the environment (Protection Act), 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
34. The stipulation by Statutory Authorities under different acts and notifications should be complied with, including the provisions of water (Prevention and control of pollution) Act, 1974, the air, (Prevention and control of pollution) Act 1981, environment (Protection) Act 1986, the Public Liability (Insurance) Act 1991 and EIA notification, 2006.
35. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which(both the advertisement and newspaper) shall be in the vernacular language informing that the project has been accorded Environmental clearance and copies of clearance letters are available with the District Environmental Impact and Assessment Authority(DEIAA) office and may also been on the website of the Authority at [www.environmentalclearance.nic.in](http://www.environmentalclearance.nic.in) . The advertisement should be made within 10 days from the date of receipt of the clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
36. A copy of the clearance letter shall be sent by the proponent to the concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body also to the NGO, if



any, from whom suggestions/ representations, if any, were received while processing the proposal, the environmental clearance shall also be put on the website of the company by the proponent.

37. The proponent shall submit half yearly reports complaints of the stipulated EC conditions including results of monitored data( both in hard as well as by email) and upload the status of compliance of stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. Each shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the District Environment Impact Assessment Authority (DEIAA) office.
38. The details of Environment Clearance should be prominently displayed in a metallic board of 3ft x 3ft with green background and yellow letters of Times New Roman Font size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
39. The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
40. No change in mining technology and scope of working should be made without prior approval of the DEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA, as applicable.
41. The project proponent shall ensure that no natural water course and / or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
42. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.
43. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the top soil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site (s) only. The maximum height of the dumps shall not exceed 8 meter and width 20 meter and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management or rehabilitated areas should continue until the vegetation becomes self sustaining

44. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working mineral and OB dumps to prevent run off water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, road, green belt development etc. The drains shall be regularly desalted particularly after monsoon and maintained properly.
45. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Control Board in this regard.
46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads. Loading and unloading and at transfer points should be provided and properly maintained.
47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
48. A separate environment management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the Organization.
49. The funds earmarked for environmental protection measures and CSR activate should kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the District Environment Impact Assessment Authority (DEIAA) office.
50. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/ monitoring reports.
51. Any appeal against this Environment Clearance shall lie with the National Green Tribunal. If preferred with a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.
52. Concealing the factual data or submission of false / fabricated data and failure to comply with any of the conditions mentioned above many result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
53. The DEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The DEIAA reserve the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.



54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit. License on consent given by any other authority for the same project.
55. The order is valid for a period of 5 years from the date of this clearance or the expiry of mine lease period issued by the Government of Kerala, whichever is earlier.
56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
57. The mining operation shall be restricted to above ground water table and it should not interest ground water table.
58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.
59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to DEIAA.
61. Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
62. Commitment of CST should be fulfilled.

#### **SPECIFIC CONDITIONS PROPOSED BY DEAC**

1. The applicant should establish a permanent bench mark outside the mining area from which the relative depths of mining should be established and submitted in the calculations as well as in the drawings.
2. The relative levels from the established bench marks should be permanently marked in the boundary points.
3. The solid waste generated during the course of operation shall be utilized for formation of safety bunds all along 7.5m safety zone, internal road maintenance and green belt works.
4. Sufficient number of suitable parapet walls shall be made all along quarries, haulage roads where ever necessary in order to maintain safe working conditions.
5. Proper blast design avoiding over charging and controlled blasting techniques shall be adopted.
6. Construction of garland drains to divert surface run off away from mining area shall be implemented.



*[Signature]*  
**SUB COLLECTOR  
FORTKOCHI**

7. Environmental auditing shall be done every year and same shall be reported to District Collector through District Geologist.
8. Quarrying area shall be under water sprinklers for dust control.
9. Ideal locations shall be identified in and around quarry site suitable for rain water harvesting.
10. Implementation of artificial geo-textiles shall be promoted along borders of buffer zone where chances of rock creep exist during rainy season.
11. Future excavations shall be conducted by strictly forming systematic benches as per the norms of Mine Safety Departments and Kerala Minor Mineral Concession Rules 2015.
12. All quarry workers shall be allowed to enter the blasting area only with personal protective equipments (helmets, safety shoes, reflecting jackets...etc)

Validity of the environmental clearance will be for five years from the date of this clearance, subject to earlier review in the event of genuine complaint from anybody from the safety area or violation or non-compliance of any of the conditions stipulated herein.

#### **MONITORING AND ACTION AGAINST VIOLATION OF GENERAL & SPECIFIC CONDITIONS**

- 1) This environmental clearance is subject to the general and specific condition mentioned in this proceeding. This EC is liable to be cancelled if general and specific conditions are violated and also Penal action will be taken if DEIAA finds any false statement / information in the project proposal.
- 2) Compliance of the conditions here in will be monitored by the Authority or its agencies and also by the regional office of the Ministry of Environment & Forests, Government of India, Bangalore
- 3) Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.
- 4) Instances of violation if any shall be reported to the District Collector, Ernakulam to take legal action under the Environment (Protection) Act, 1986.
- 5) All the inventory records and other documents related to the operations and maintenance of the quarry should be maintained and produced to the monitory authorities whenever needed or directed to produce the same in the future.
- 6) The given address for correspondence with the authorized signatory of the project of Sri Sabu Varghese, M/s S.S. Granites, Korangolithadathil House, Karimpana P.O., Koothattukulam, Ernakulam , Kerala.

District Environment Impact Assessment Authority [DEIAA]

Page - 12 -

DISTRICT COLLECTOR  
FORTKOCHI



*Snehi*  
Sri. Snehil Kumar Singh. IAS  
Member Secretary, DEIAA  
&  
Sub Collector, Fort Kochi

To  
Sri Sabu Varghese, M/s S.S. Granites,  
Korangolithadathil House, Karimpana P.O.,  
Koothattukulam, Ernakulam , Kerala.



Copy to:

1. The Additional Chief Secretary to Government, Environment Dept, Govt. Of Kerala
2. Director, Mining & Geology, Thiruvananthapuram - 4
3. Chairman DEIAA & District Collector, Ernakulam
4. Sri. A. Renjan I.F.S, DFO Malayattoor & Member DEIAA
5. Dr. P.S. Easa, Member, National Board of Wildlife & Member DEIAA
6. Sri. A. K Manoj, Geologist, Mining & Geology, Kakkanad, Ernakulam
7. The Secretary, Palakkuzha Grama Panchayath,
8. Tahsildar, Muvattupuzha Taluk.
9. Village Officer, Palakkuzha Village
10. Website
11. Stock File

**PROCEEDINGS OF THE ADDITIONAL DIRECTOR OF MINING & GEOLOGY,  
THIRUVANANTHAPURAM, KERALA**

(Present Shri. T K Ramakrishnan)

- Sub:* Department of Mining & Geology, Government of Kerala - Mines & Minerals - Minor Minerals – Granite (Building Stone) – Quarrying Lease to M/s. S. S. Granites, House No. 322/12, Kurangolithadathil, Karimpana. P. O, Koothattukulam, Ernakulam District – 686 662 (Represented by its Managing Partner, Shri. Sabu Varghese) – sanctioned-orders-issued.
- Ref:*
- 1 Application dated 26/04/2017 from M/s. S. S. Granites, House No. 322/12, Kurangolithadathil, Karimpana. P. O, Koothattukulam, Ernakulam District – 686 662 (Represented by its Managing Partner, Shri. Sabu Varghese)
  - 2 Letter No. DOE/979/E2/17 dtd. 29/08/2017, 02/02/2019 from the Geologist, District Office, Ernakulam.
  - 3 Letter of Intent No. 8253/M3/2017 dtd. 15/09/2017 issued by Director of Mining and Geology
  - 4 Environmental clearance No. 60/2018 issued vide Pro. Order No. P/333/2018 (DIA/KL/MIN/12528/2018) dtd. 10/12/2018 by the State Environment Impact Assessment Authority Kerala (valid till 09/12/2023)
  - 5 Integrated consent to operate No. R18 ERNA CTO 942019 dtd. 06/01/2019 issued by Kerala State Pollution Control Board, Ernakulam (valid till 09/12/2023)
  - 6 Explosive License No. E/SC/KL/22/1145(E55019) dated. 11/01/2019 issued by Petroleum and Explosive Safety Organization, Ernakulam (valid till 31.3.2020)
  - 7 Dangerous and Offensive Trade License No. 128/18-19 dated. 23/01/2019 issued by Palakkuzha Grama Panchayat (valid till 31.03.2019).
  - 8 Mines and Minerals (Development & Regulation) Act, 1957.
  - 9 Kerala Minor Mineral Concession Rules, 2015
  - 10 Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015

**No. 786/2018-19/8253/M3/2017/DMG      Dated, Thiruvananthapuram      16/02/2019**

**O R D E R**

M/s. S. S. Granites, House No. 322/12, Kurangolithadathil, Karimpana. P. O, Koothattukulam, Ernakulam District – 686 662, a Partnership firm having registration No. 3536/2016, represented by its Managing Partner, Shri. Sabu Varghese (Aadhaar No. 9693 1724 0523) submitted an application vide reference first cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of **4.3046** Hectares of land (as per the survey map No. 183/17 issued by Tahsildar, Muvattupuzha) comprised in **Survey Nos. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3, 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk.** The District Geologist, Ernakulam has intimated that the applied area is virgin and there was no dues by way of royalty to be collected from the applicant.



Based on the merit of the application and the enclosed mandatory documents including survey map, possessions certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3 intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Shri. Ramachandra. K. T, Recognized Qualified Person – Reg. No. RQP/BNG/040/1988/A approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that mineable mineral reserve of granite (building stone) in the applied area is **20,56,928** tonnes and that it is proposed to mine **20,56,928** tonnes of granite (building stone) for 12 years with an average annual production of **1,71,411** tonnes. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence the following orders are issued:

A quarrying lease is hereby granted to **M/s. S. S. Granites, House No. 322/12, Kurangolithadathil, Karimpana. P. O, Koothattukulam, Ernakulam District – 686 662, a Partnership firm having registration No. 3536/2016, represented by its Managing Partner, Shri. Sabu Varghese (Aadhaar No. 9693 1724 0523)** to quarry Granite (Building Stone) over an area of **4.3046** Hectares of land (as per the survey map No. 183/17 issued by Tahsildar, Muvattupuzha) comprised in **Survey Nos. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3, 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk, Ernakulam District** for **12 (Twelve)** years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below.

1. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015 and the quarrying leases deed shall be registered in accordance with the provisions of the Indian Registration Act, 1908.
2. The lessee shall commence quarrying operation only after the deed is executed and registered.
3. The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining & Geology.
4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules. In case the lessee opts for consolidated royalty payment system by registering attached metal crusher units as per Rule 89, then consolidated royalty at the rate specified in

dy

Schedule III said Rules shall be paid instead of royalty specified in Schedule I.

5. Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
6. Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
7. The lessee shall also deposit an amount of **Rs. 43,046/- (Rupees forty three thousand and forty six only)** being the security deposit at the rate of Rs 10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.
8. The lessee shall produce financial guarantee for **Rs. 1,07,615/- (Rupees one lakh seven thousand six hundred and fifteen only)** as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
9. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.
10. The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
11. In addition to the royalty, rents, funds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.
12. The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015.
13. The lessee shall renew Environmental Clearance on or before **09/12/2023** for the operation of the quarry for the remaining period.
14. The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.
15. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf an yearly report before 1st July of every year describing protective works including reclamation and rehabilitation work

- carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.
16. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.
  17. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved quarry closure plan.
  18. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and scheme of mining.
  19. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
  20. The Lessee shall comply with any and all laws, ordinances, rules and orders related to quarrying operations of any and all governmental or quasi-governmental authorities.
  21. The lessee shall comply with all the conditions mentioned in other statutory license required for carrying out quarrying operations.
  22. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.
  23. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
  24. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations
  25. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents/licenses submitted. At any stage, if it is observed that the

- documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
26. The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
  27. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition, details of other statutory licenses shall also be displayed.
  28. The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.
  29. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry becomes unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles or any objects into the pit formed by quarrying.
  30. The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary of the lease area and quarrying operations shall be carried out in benches.
  31. The lessee shall start mining operation with the strength of this lease only after sending a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14<sup>th</sup> Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bengaluru - 560034 and to District Magistrate concerned and shall intimate the same to the District office of the Department of Mining and Geology.
  32. The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules 2015.
  33. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
  34. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of **Rs. 24/-** per tonne with average annual production of of **1,71,411 tonne** is **Rs. 41,13,864/- (Rupees forty one lakhs thirteen thousand eight hundred and sixty four only)**. In this case, the surface rent to be remitted per year at the present rate of Rs. 5 per Are



per year is **Rs. 2,152/- (Rupees two thousand one hundred and fifty two only)** and in the event of non - functioning of quarry the Dead Rent to be realized for the 1<sup>st</sup> year - NIL IInd year - Rs. 300/- (Rupees three hundred only) and IIIrd year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time.

The terms and conditions stated in this order will be subject to such further modifications as may be made by the State Government from time to time.

**Sd/-**

**T. K. RAMAKRISHNAN**  
**ADDITIONAL DIRECTOR OF MINING & GEOLOGY**

To

**M/s. S. S. Granites,**  
**House No. 322/12, Kurangolithadathil,**  
**Karimpana. P. O, Koothattukulam, Ernakulam District - 686 662**  
**(Represented by its Managing Partner, Shri. Sabu Varghese)**

Copy to:

- 1 The Director (Mining), Directorate General of Mines Safety, No.5, 14<sup>th</sup> Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bengaluru - 560034
- 2 The District Collector & Chairman, DEIAA, Ernakulam.
- 3 The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam
- 4 The Environmental Engineer, Kerala State Pollution Control Board, District Office, Ernakulam.
- 5 The Secretary, Palakkuzha Grama Panchayath, Ernakulam District.
- 6 The Tahsildar, Muvattupuzha Taluk Office, Ernakulam District.
- 7 The Village officer, Palakkuzha Village, Ernakulam District.
- 8 Shri. Shri. K. T. Ramachandra, C/o. Abey Mathew Associates, Aikkarakudiyil Chambers, Padamugal, Ernakulam District - 682 021.
- 9 The Geologist, District Office of the Dept. of Mining and Geology, Ernakulam.
- 10 Stock File
- 11 File Copy

(By Order)

*Sd/-*  
*16/02/2019*

**Senior Superintendent**





## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : KSPCB/ER2/ICO/10064861/2024

Date of issue : 13-04-2024

### INTEGRATED CONSENT TO OPERATE - RENEWAL

**Consent No : KSPCB/ER2/ICO/10064861/2024**

**Valid up to : 27/10/2024**

REF: Consent No. KSPCB/ER2/ICO/10051568/2023 dated 15-12-2023 valid upto 28/04/2024

The Integrated Consent to Operate issued as per reference above is hereby modified & issued to **M/s S S Granites, Kurangolithadathil, Palakuzha P. O., Muvattupuzha Pin: 686662**. The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### 1. GENERAL CONDITIONS

SL NO.	ITEMS	DESCRIPTION
1	VALIDITY	27/10/2024
2	CAPITAL INVESTMENT	150.00 LAKHS
3	CATEGORY	RED
4	ANNUAL FEE	Rs.25,000/-
5	FEE REMITTED	Rs.25,000/-
6	SURVEY NUMBERS	441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3, 459/2B2
7	EXTENT OF MINING AREA	4.3046 HECTARES
8	PRODUCT	AGGREGATES PER ANNUM @203750 Metric Tonnes

## 2. SPECIFIC CONDITIONS

2.1 This consent has issued based on the circular no. KSPCB/98/2024-SEE-1 dated 27.03.2024 and on the MoEF&CC Office Memorandum F. No. IA3-2211112023-IA.III (E 208230) dated 15.03.2024.

2. For renewal of the consent in case of continuance of operation of the quarry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.

2.3 The consent issued from the board is only with respect to the powers vested under the water Act 1974 Air Act 1981 and The Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned Authorities.

2.4 There shall not be any fmg activity between 6 pm to 6 am.

2.5 Mining activities shall be done only in the area marked by Mining & Geology.

2.6 The PM10 in ambient air at the boundary shall not exceed 100 microgram/m<sup>3</sup>

2.7 The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>

2.8 The sound level (Leq) at 1 m outside the boundary of the site should not exceed the ambient noise Standard applicable to the adjoining areas.

2.9 Conditions given in the Environmental clearance shall be strictly complied with.

2.10 Mining shall be only done as per the mining plan attached with EC.

2.11 Annual environmental statement shall be submitted on or before 31 st March every year.

Digitally signed by Sajeesh Joy  
Date: 2024.04.13 10:40:01 IST

SIGNATURE OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER

### To

M/s M/s. S S Granites.

Kurangolithadathil, Palakuzha P.O. Muvattupuzha Pin:686662.

E-Mail : ssgranites19@gmail.com

Contact Number :7907004848,

1.This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using Certificate Number/Name of the unit/Application Number in "Certificate Verification" link in the home page of the Board's Phoenix website.



## KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : KSPCB/ER2/ICO/10089245/2024

Date of issue : 03-12-2024

### INTEGRATED CONSENT TO OPERATE - RENEWAL

**Consent No : KSPCB/ER2/ICO/10089245/2024**

**Valid upto : 31/03/2025**

REF: Consent No : KSPCB/ER2/ICO/10087175/2024, Date of issue : 08-11-2024, Valid up to : 07/12/2024

The Integrated Consent to Operate issued as per reference above to **M/s. S S Granites, Kurangolithadathil, Palakuzha P.O., Muvattupuzha, Pin:686662** is hereby renewed up to **31/03/2025** and issued to Mr. Sabu Varghese, 322/12, Kurangolithadathil House, Karimpana P.O., Koothattukulam, Ernakulam Dist., Kerala Pin: 686662. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### 1. GENERAL CONDITIONS

SI No	ITEMS	DESCRIPTION
1	VALIDITY	31.03.2025
2	CAPITAL INVESTMENT	Rs.150 lakhs
3	CATEGORY	RED

#### 2. SPECIFIC CONDITIONS

2.1 For renewal of the consent in case of continuance of operation of the quarry, application in the

prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.

2.2 The consent issued from the Board is only with respect to the powers vested under the water Act 1974 Air Act 1981 and The Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned Authorities.

2.3 There shall not be any quarrying activity carried out from 6 pm to 6 am.

2.4 Mining activities shall be done only in the area marked by Mining & Geology.

2.5 The PM10 in ambient air at the boundary shall not exceed 100 microgram/m<sup>3</sup>

2.6 The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>

2.7 The sound level (Leq) at 1 m outside the boundary of the site should not exceed the ambient noise Standard applicable to the adjoining areas.

2.8 Conditions given in the Environmental clearance shall be strictly complied with.

2.9 Mining shall be only done as per the mining plan attached with EC.

2.10 Annual environmental statement shall be submitted on or before 31 st March every year.

2.11 This consent is issued based on the order of the Honorable Supreme Court dated 12.11.2024 in Civil Appeal no. 3799/3800-2019 and circular no. KSPCB/98/2024-SEE1 dated 26.11.2024.

Digitally signed by Sajeesh Joy  
Date: 2024.12.03 22:03:21 IST

SIGNATURE OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER



**To**

M/s M/s. S S Granites.

Kurangolithadathil, Palakuzha P.O. Muvattupuzha Pin:686662.

E-Mail : ssgranites19@gmail.com

Contact Number :7907004848,

1.This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to [www.keralapcbonline.com](http://www.keralapcbonline.com) and search using Certificate Number/Name of the unit/Application Number in “Certificate Verification” link in the home page of the Board’s Phoenix website.

## EXPLOSIVE LICENCE

## ANNEXURE-4

## अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञप्ति  
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञप्ति सं. (Licence No.) : E/SE/KL/22/270(E126207)

वार्षिक फीस रुपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

Shri Sabu Varghese (अधिभोगी / Occupier : Shri Sabu Varghese), Mg.Partner, M/s.S.S.Granites, Karangolithadathil House,Karimpana P.O., Town/Village - Palakuzha, District-ERNAKULAM, State-Kerala, Pincode - 686662



को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : Partnership Firm

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	150 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	4000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए]

(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] :

20 times  
as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing(s) :

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/270(E126207)

दिनांक (Dated) 23/01/2020

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 456/1-1-3, ग्राम (Town/Village) : Palakuzha Village, Muvattupuzha Taluk, पुलिस थाना (Police Station) : Koothattukulam

जिला (District) ERNAKULAM राज्य (State) Kerala पिनकोड (Pincode) 686662  
दूरभाष (Phone) 9447055916 ई. मेल (E-Mail) फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

Two portable magazines of H & E types having serial Nos.47 and 1147 respectively fabricated by M/s.Thekkans Engineering & Fabrication Works, Ernakulam

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए।)

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2024 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2024.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 23/01/2020

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives  
Ernakulam

#### Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 18/05/2020

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
01/03/2024	31/03/2029	Dy. Chief Controller of Explosives, Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दांडिक अपराध होगा।  
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.



भारत सरकार | Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives

केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

CSEZ पी.ओ.कक्कनाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037

फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

ई-मेल Email: dyccecochin@explosives.gov.in

संख्या (No.): E/SE/KL/22/270(E126207)

दिनांक (Date): 01/03/2024

सेवा में | To,

Shri Sabu Varghese,  
Mg.Partner, M/s.S.S.Granites, Karangolithadathil House, Karimpana P.O., Town/Village - Palakuzha  
District-ERNAKULAM, State-Kerala, Pincode - 686662

विषय : Survey No.456/1-1-3, ग्राम Palakuzha Village, Muvattupuzha Taluk, जिला ERNAKULAM, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/270(E126207) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of of Explosives from magazine situated at Survey No.:456/1-1-3, Palakuzha Village, Muvattupuzha Taluk, Dist. ERNAKULAM, Kerala -Licence No.: E/SE/KL/22/270(E126207) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 110331 दिनांक 23/02/2024 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2029 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No.: 110331 dated: 23/02/2024, the subject licence duly renewed upto 31/3/2029 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith. अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/ 2029 से पहले इस कार्यालय को भेजे जाएं।

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2029.

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्को का, विस्फोटक नियम, 2008 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जमा किया जाना है।  
Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008.
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।  
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।  
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office.(Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter.(Not applicable for fireworks store house)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।  
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Your's faithfully

(अनिल कुमार टी. | Anil Kumar T)

उप विस्फोटक नियंत्रक | Dy. Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. ज़िला मजिस्ट्रेट (District Magistrate), ERNAKULAM (Kerala)- सूचना के लिए (for information.)

कृते उप मुख्य विस्फोटक नियंत्रक | For The Dy. Chief Controller of Explosives,  
कोच्ची | Ernakulam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट <http://peso.gov.in> देखें।)  
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

**Form DE-2**  
**(See rule 113 of the Explosives Rules, 2008)**  
(Distance Form to be attached to the licence)

**Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SE/KL/22/270(E126207) in form LE-3 granted to Shri Sabu Varghese, Mg.Partner, M/s.S.S.Granites, Karangolithadathil House,Karimpana P.O., Kerala-686662 .**

Type of Structure(s)	Safety distances meters	
	M	UM
<b>Inside Safety Distances(ISD)</b>		
1 Room or Workshop used in Connection with the Magazine	13	19
2 Any other Explosives Magazine or store House or Factory of the Applicant		
3 Magazine Office		
<b>Middle Safety Distances(MSD)</b>		
4 Magazine Keeper`s or Chowkidar`s Dwelling house		
5 Railway including Minerals and Private Railways		
6 Canal (in active use) or other navigable water		
7 Dock or Pier or Jetty		
8 Public Highway or Public Road		40
9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10 River Embankment or Sea Embankment or Public Well		
11 Reservoir or Bounded tank/rope way		
12 Windmillor or Solar panel for Power Generation		
<b>Outside Safety Distances(OSD)</b>		
13 Dwelling House		
14 Govt. and Public Building		
15 Temple, Mosque, Church or Gurudwara or other Places of Worships		
16 Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17 Factory		
18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances		45
19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20 Aerodrome		
21 Furnace, Kiln or Chimney		
22 Quarry or mine pit head		
23 Power House or Electric Substation		
24 Wireless Station		
25 Warehouse or other Storage Building		
26 Any other Protected works		
<b>Overhead Electric lines</b>		
27 Electric Power over head Transmission Lines above 440V		45
28 Electric Power over head Transmission Lines upto 440V		15

The Date : 23/01/2020

For Dy. Chief Controller of Explosives  
Ernakulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 18/05/2020

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एल.ई. 3 [अनुच्छेद 3 (ख) से (ग)] में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञप्ति सं. E/SE/KL/22/270(E126207) की शर्तें निम्नलिखित हैं।

The following are the conditions of licence number E/SE/KL/22/270(E126207) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c) ) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी।  
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुसूची III और अनुज्ञप्ति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।  
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञप्ति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं।  
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तौलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा।  
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine.
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु –  
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पलीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पलीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थायन के रखे जा सकते हैं।  
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।  
(च) वर्ग 1 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।  
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other; Provided that—  
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;  
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.  
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मैगजीन में नहीं रखा जाएगा।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।  
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्राप्त कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञप्तिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।  
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लाइसीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञप्तिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।  
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.  
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.  
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मैगजीन के भीतरी भाग या उसमें लगी बेंचों, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचें, शेल्फें और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे : परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बांधेकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।  
The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from;  
Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.
- यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञप्तिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञप्तिधारी द्वारा पश्चात्कर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता :  
परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्य होगा :  
परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मैगजीन से संबद्ध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।  
If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory:  
Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :  
Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.
- उपयुक्त तथा जब रहित कार्यकरण वस्त्रों, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो :  
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है।  
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion:  
Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापितधारों प्ररूप आर.इ.-3 और आर.इ.-4 या आर.इ.-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टॉक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी।  
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.
12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापितधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करें।  
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी)। यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापितधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा।  
Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever.  
मैगजीन का अनुज्ञापितधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।  
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी।  
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी।  
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।  
The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.  
तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओहम से अधिक नहीं होगा।  
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी।  
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतिथीय वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापितधारी और कर्मचारियों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञापित परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापितधारक को अनुज्ञापित परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापितधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापितधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञापित फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पल्लिते खरीदेगा।  
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए –  
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;  
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग<sub>10</sub>(एन) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;  
The possession and sale of fire-crackers generating noise level exceeding;  
a) 125 dB(A) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;  
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log<sub>10</sub>(N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

**अतिरिक्त शर्तें / Additional Conditions :**

1. अनुज्ञापितधारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

कृते उप मुख्य विस्फोटक नियंत्रक  
For Dy. Chief Controller of Explosives  
एरणाकुलम | Ernakulam

**Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.**

No. DOE/2491/E2/2017

Department of Mining & Geology  
**Government of Kerala**  
 District Office, Ernakulam,  
 Civil Station, Kakkanad, Kochi-682030,  
 Phone -0484-2422354  
[geo.ern.dmg@kerala.gov.in](mailto:geo.ern.dmg@kerala.gov.in)

Dated 22/01/2018

**MEMO**

Sub:- Mines and Minerals-Minor Minerals Granite building stone-  
 Mining plan approval- reg.

- Ref: 1. Kerala Minor Mineral Concession Rules 2015  
 2. Application dated 27/10/17 of Sri.Sabu Varghese, M/s.S.S.Granites,  
 Korangolithadathil House, Karimpana P.O, Koothattukulam, Ernakulam District.  
 3. Site inspection dated 17.11.2017.

The mining plan for the building stone quarry of the Sri.Sabu Varghese, M/s.S.S.Granites, Korangolithadathil House, Karimpana P.O, Koothattukulam, Ernakulam District in Survey No.s 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 of Palakkuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala for an extent of 4.3046 Hectares is hereby approved vide the powers delegated to the District geologist for the approval of mining plan for the minor minerals issued under Rule 66 of Kerala Minor Mineral Concession Rules 2015, with the following conditions:

1. That you will follow the prescribed Rules & Regulations of Central Government and State Government issued from time to time in regard to mining.
2. That you will follow the Mines Safety Rules & Regulations.
3. That you will store the mining waste in the earmarked location/ dumping yard only as specified in the plan.
4. That you will carry out the plantation as committed in the plan.
5. That provision shall be made for the housing facility for the labour with all basic infrastructure facilities including safe drinking water, toilets etc., within the site.
6. That the yearly production (1<sup>st</sup> year 1,80,678, 2<sup>nd</sup> year 1,93,562, 3<sup>rd</sup> year 1,83,231, 4<sup>th</sup> year 1,91,188, 5<sup>th</sup> year 1,81,747 metric tonnes) approved in the plan shall be strictly adhered to and if any deviation is required the same shall be intimated in advance.



Yours faithfully,

*[Signature]*  
 22/01/18  
 District Sr.Geologist

To

Sri.Sabu Varghese,  
 M/s.S.S.Granites,  
 Korangolithadathil House,  
 Karimpana P.O,  
 Koothattukulam,  
 Ernakulam District.

Dept. of Mining & Geology  
District Office, Ernakulam  
Civil Station, Kakkannad  
Phone: 0484-2422354  
E-mail: geo.ern.dmg@kerala.gov.in  
Dated: 15-01-2024.

No: DOE/979/E2/2017

From

Geologist  
Ernakulam.

To

Sri. Sabu Varghese  
Managing Partner  
S.S. Granites  
Karimpana P.O., Koothattukulam.

Sir,

Sub : Approval of Scheme of Mining for **Granite Building Stone** quarry situated in Survey No. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3, 459/2B2 of Palakkuzha village, Muvattupuzha Taluk, Ernakulam District – reg.

Ref: 1. Kerala Minor Mineral Concession Rules 2015.  
2. Your application dated 06-01-2024.  
3. Site inspection dated 11-01-2024.

The Scheme of Mining with Progressive Mine Closure Plan of quarrying lease submitted vide reference 2, for the granite building stone quarry of M/s. S.S. Granites, House No. 322/12, Kurangolithadathil, Karimpana P.O., Koothattukulam, Ernakulam (represented by its Managing Partner Sri. Sabu Varghese) in Survey No. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3, 459/2B2 of Palakkuzha village, Muvattupuzha Taluk, Ernakulam District for an extent of 4.3046 Hectares is hereby approved vide powers delegated to the District Geologist for the approval of mining plan for the minor minerals issued under Rule 66, 67 of Kerala Minor Mineral Concession Rules 2015, with the following conditions.

1. That you will follow the prescribed Rules & Regulations of Central Government and State Government issued from time to time in regard to mining.
2. That you will follow the Mines Safety Rules & Regulations.
3. That you will store the mining waste in the earmarked location/ dumping yard only as specified in the plan.
4. That you will carry out the plantation as committed in the plan.
5. That provision shall be made for the housing facility for the labour with all basic infrastructure facilities including safe drinking water, toilets etc., within the site.
6. That the yearly production (1<sup>st</sup> year 59,672MT, 2<sup>nd</sup> year 1,90,202MT, 3<sup>rd</sup> year 1,90,118MT, 4<sup>th</sup> year 1,90,071MT & 5<sup>th</sup> year 1,90,167MT) shall be adhered to and if any deviation is required the same shall be intimated in advance.



Yours faithfully,

15.1.24  
GEOLOGIST



പാലക്കാട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
 അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
 ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

**ലൈസൻസ്**

നമ്പർ : A7-643/24

തീയതി : 17/04/2024

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	Sabu Varghese, Korangolithadathil, Karimpana p.o	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	S S GRANITES, KARIMPANA, NORTH PALAKUZHA	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	Granite Building Stone Quarry	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	Sy.No 44V4-1, 44V5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2	
ലൈസൻസ് കാലയളവ്	29/04/2024 മുതൽ 27/10/2024വരെ	
ഇടപാടാക്കിയ ലൈസൻസ് ഫീസ്	15000 /- രൂപ	രസീത് നം:1230103704 തീയതി: 22/03/2024
തൊഴിൽക്കരം	2500 /- രൂപ	രസീത് നം: 1230103704 തീയതി: 22/03/2024
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	As per the order from Hon. High court of Kerala Order no. WP(C) NO. 41067 OF 2023 Dtd 11/12/2023. Pollution certificate valid up to 27/10/2024. Explosive license valid up to 31/03/2029. Mining mate's certificate. Order from Ministry of Environment, Forest and Climate Change (Order no. F.No.IA3-22/11/2023-IA.III (E 208230) Valid up to 27/10/2024)	



*(Signature)*  
 സെക്രട്ടറി

പാലക്കാട് ഗ്രാമപഞ്ചായത്ത്  
 സെക്രട്ടറി  
 പാലക്കാട് ഗ്രാമപഞ്ചായത്ത്



പാലക്കുഴ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും  
 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും  
 അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്  
 ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന

**ലൈസൻസ്**

നമ്പർ : A4-3621/2024

തീയതി : 05/12/2024

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	SABU VARGHESE ,KORANGOLITHADATHIL, KARIMPANA P O	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	S S GRANITES ,KARIMPANA, NORTH PALAKUZHA	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	GRANITE BUILDING STONE QUARRY	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	Sy No 441/4-1,441/5,455/6 A,457/3-1,457/4-2,457/4-3,457/5,459/2A3&459/2B2	
ലൈസൻസ് കാലയളവ്	08/12/2024 മുതൽ 31/03/2025വരെ	
ഇടാക്കിയ ലൈസൻസ് ഫീസ്	15000 /- രൂപ	രസീത് നം:1230103704 തീയതി: 22/03/2024
തൊഴിൽക്കരം	2500 /- രൂപ	രസീത് നം: 1230103704 തീയതി: 22/03/2024
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	AS PER THE ORDER OF HON SUPREME COURT OF INDIA IN CIVIL APPEAL NO-3799-3800/20219 DTD 12/11/2024, POLLUTION CERTIFICATE VALID UP TO 31/03/2025 , EXPLOSIVE LICENCE VALID UP TO 31/03/2029	



ANIL KUMAR. G.  
 SECRETARY  
 Palakuzha Grama Panchayath  
 PEN: 583644  
 PH: 9745058004

സെക്രട്ടറി  
 പാലക്കുഴ ഗ്രാമപഞ്ചായത്ത്  
**ANIL KUMAR. G**  
**SECRETARY**  
**Palakuzha Grama Panchayath**  
**PEN: 583644**  
**PH: 9745058004**

**ലൈസൻസി താഴെപ്പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു.**

1. കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതോടനുബന്ധിച്ച ചട്ടങ്ങളും ബൈലോകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽസ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്ത് അധികാരികൾക്കോ / സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യങ്ങൾ നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. ഏതു സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശ്യവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വെച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽനിന്നും അനുവാദം സിദ്ധിച്ച ശേഷമല്ലാതെ തൊഴിൽസ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽസ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്തവിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വെച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഏതൊരു പ്രവൃത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ മൃഗങ്ങളുടെ അവാശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുമതലയുടെ അകമ്പടത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപ്പറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ ചപ്പുചവറോ അസഹ്യവും ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാടു തീർത്തു നിലനിർത്തേണ്ടതാണ്.
9. ലൈസൻസി മേൽപ്പറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടുചേർന്നുള്ള ഏതൊരു ഓവുചാലും അഴുക്കുലും കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്തു വെച്ചിരിക്കേണ്ടതാണ്.
10. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.
11. ഏതെങ്കിലും തരത്തിലുള്ള തൃക്ക് രോഗമോ ക്ഷയരോഗമോ, വൃണമോ പകർച്ചവ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങൾ ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയിലെറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല, ഗുഡ്ക തുടങ്ങിയവ സംഭരിച്ചു വെക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. ബാലവേല അനുവദിക്കുവാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതിന് കാരണമാകാവുന്നതാണ്.
18. പൊതുരണവകുപ്പിന്റെ 13-06-2020ലെ സ.ഉ. (സാധാ) 1877/2020/പൊ.ഭ.വ. ഉത്തരവ് പ്രകാരമുള്ള കോവിഡ് പ്രൊട്ടോക്കോൾ പാലിക്കണം.
19. തദ്ദേശ സ്വയം ഭരണ വകുപ്പിന്റെ 22-07-2017ലെ സ.ഉ.(സാധാ) 2511/2017/ത.സ്വ.ഭ.വ. പ്രകാരമുള്ള ഉറവിട മാലിന്യ സംസ്കരണ സംവിധാനം സ്ഥാപിക്കണം.
20. മറ്റ് വകുപ്പുകളിൽ നിന്നും അനുവദിച്ചിട്ടുള്ള പെർമിഷൻ, ലൈസൻസ്, മറ്റ് ക്ലിയറൻസുകൾ എന്നിവ അതത് സമയങ്ങളിൽ പുതുക്കേണ്ടതാകുന്നു. അല്ലാത്ത പക്ഷം പഞ്ചായത്ത് അനുവദിച്ചിട്ടുള്ള ലൈസൻസ് സ്വമേധയാ റദ്ദാകുന്നതാണ്.



  
 (ഒപ്പ്)  
 സെക്രട്ടറി  
 പാലക്കുഴ ഗ്രാമപഞ്ചായത്ത്  
**ANIL KUMAR. G**  
**SECRETARY**  
**Palakuzha Grama Panchayath**  
**PEN: 583644**  
**PH: 9745058004**

NB. ഈ ലൈസൻസ് ഡിജിറ്റലായി ഒപ്പ് വെച്ചിട്ടുള്ളതാണ് ആയതിനാൽ പ്രത്യേകമായ ഒപ്പും സീലും ആവശ്യമില്ല. ഈ ലൈസൻസ് അനുസരിക്കുന്നതിൽ മുന്നോട്ടു ദിവസത്തിനകം ലൈസൻസ് പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.



കേരളം കേരल KERALA

BL 765291

**AFFIDAVIT**

I, Sabu Varghese, Managing Partner, S S Granites, S/o Vaghese Chandy, aged 44 years, residing at House No 322/12, Kurangolithadathil, Karimpana P.O, Koothattukulam, Ernakulam District. 686662 do hereby solemnly affirm before the Director of Mining and Geology, Thiruvananthapuram that I will take proper care in the management of the environment, ecology and waste disposal as required by the concerned authorities while carrying out the quarrying operation (Granite building stone) from the land in survey Nos. 441/04-1, 441/05, 455/6A, 457/03-1, 457/04-2, 457/04-3, 457/05, 459/2A3, 459/2B2 (Total: 4.3046 Hectare) Pallakuzha Vilage, Pallakuzha Panchayath, Muvattupuzha Taluk, Ernakulam District

Date: 06.06.2017

Place: Muvattupuzha

For S.S. GRANITES

Deponent



Solemnly affirmed and signed before me by the deponent who is known to me at my office at Muvattupuzha on this the 6th day of June 2017



2017  
26.6.17

P.R. RAJU  
Advocate & Notary Public  
Muvattupuzha P.O., Kerala, India  
Ph: 2415-2832175, Res: 2485-2812450  
Mob: 9447317561

6829 100 29/5/17  
Sabu Varghese  
Managing Partner  
S.S. Granites  
Koothattukulam

*(Signature)*



കേരളം KERALA

BL 765294

AFFIDAVIT

I, Sabu Varghese, Managing Partner, S S Granites, S/o Vaghese Chandy, aged 44 years, residing at House No 322/12, Kurangolihadathil, Karimpana P.O, Koothattukulam, Ernakulam District, 686662 do hereby solemnly affirms and state as follows:-

I hereby swear that retention wall/barricade/Fencing /compound wall will be provided surrounding the quarry in my private land in survey Nos. 441/04-1, 441/05, 455/6A, 457/03-1, 457/04-2, 457/04-3, 457/05, 459/2A3, 459/2B2 (Total: 4.3046 Hectare) Pallakuzha Village, Pallakuzha Panchayath, Muvattupuzha Taluk, Ernakulam District before the commencement of the quarrying operation for preventing accidents by falling of human beings, animals and materials in the quarry. I also swear that all effective preventive measures will be taken by me/us for the safety of laborers as well as the general public.

For S.S. GRANITES

Sabu Varghese  
Managing Partner  
S S Granites



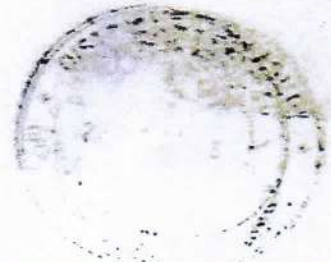
Solemnly affirm and signed before me by the deponent on the 6<sup>th</sup> day of June 2017 in my office at Muvattupuzha.



Handwritten date: 06.06.2017

P.R. RAJU  
Advocate & Notary Public  
Muvattupuzha P.O., Kerala, India  
Ph: 0485-2072275, Fax: 0485-2072450  
Mob: 9447087908

6832 100 29/5/17  
Sabu Varghese, Managing Partner  
S.S. Granites  
Koothattukulam





खान अधिनियम 1952  
THE MINES ACT 1952

द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र धातुउत्पादक खान के प्रबंध हेतु  
MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY TO MANAGE A METALLIFEROUS MINE

(धातुउत्पादक खान विनियम, 1961 के अन्तर्गत)  
(Under the Metalliferous Mines Regulations 1961)

सुरेश विन्सेन्ट पॉल

जिनकी जन्म तिथि 24 ~ 05 ~ 1962 है, विनियम 18 के अन्तर्गत अनुमोदित खनन अभियांत्रिकी में डिप्लोमा प्राप्त करने पर एवं दिनांक जुलाई, 1991 को आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा धातुउत्पादक खान के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक समक्षता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 27 ~ 03 ~ 1992 से प्रभावी समझा जाएगा।

Suresh Vincent Paul

born on Twenty Fourth May Nineteen Hundred Sixty Two possessing a Diploma in Mining Engineering approved under Regulation 18 and having passed the prescribed examination held on July, 1991 is hereby granted MANAGER'S SECOND CLASS CERTIFICATE OF COMPETENCY to manage a metalliferous mine. This Certificate is effective from 27 ~ 03 ~ 1992



सदस्य  
खनन परीक्षा बोर्ड  
Members of the Board of  
Mining Examinations.

Signed and Sealed  
Date: 19

अध्यक्ष  
खनन परीक्षा बोर्ड  
Chairman of the Board of  
Mining Examinations

No. 1192

Home Address :—

Prepared by *Ratnayin*

Father's Name *J. Pami Leslie*

Checked by *[Signature]*

Village *Borgann*

Thana *Borgann*

District *Molay*

State *Kannataka*

*Suresh Paul*  
5/12/20

(*Suresh Vincent Paul*)





भारत सरकार  
Govt. of India  
श्रम एवं रोजगार मंत्रालय  
Ministry of Labour & Employment  
खान सुरक्षा महाविदेशालय  
Directorate-General of Mines Safety



NO: 302683|SZ|Bengaluru Region|Perm|2024|266007

Date: 31/07/2024

प्रेषक / From,  
खान सुरक्षा निदेशक / Director of Mines Safety,  
बेंगलूरु क्षेत्र, बेंगलूरु / Bengaluru Region, Bengaluru-560071.

सेवा में /To,

**Shri: Suresh Vincent Paul,**

Manager: M/s S S Granites (QL No: 786/2018-19/8253/M3/2017/DMG, dated: 16.02.2019; LIN:2-8556-8535-1; Mine Code:302683),

Managing Partner: Shri Sabu Varghese,

Extent of 4-3046 Hectares, Sy. No.441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 at Palakkuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala.

**विषय/Subject:-Authorisation to work as Manager under Regulation 34(6) of the Metalliferous Mines Regulations, 1961, in favour of Shri Suresh Vincent Paul, Second Class Manager's Certificate of Competency (Un-Restricted), renewal thereof.**

महोदय/Sir,

Refer to your online application ID: 302683|SZ|Bengaluru Region|Perm|2024|266007 Dated 01.06.2024 on the above subject. The matter has since been examined in the light of what has been stated in your application.

In the exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of Regulation 34(6) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines under Section 6(1) of the Mines Act, 1952, I, do renew authorization issued vide online Ref ID: 302683|SZ|Bengaluru Region|Perm|2023|256001 Dated 30.06.2023 **Shri Suresh Vincent Paul, Holder of Second Class Manager's Certificate of Competency (Un-Restricted), Certificate No: 1192 dated 27.03.1992 to work as Manager at M/s S S Granites (QL No:786/2018-19/8253/M3/2017/DMG Dated: 16.02.2019; LIN:2-8556-8535-1; Mine Code:302683) of Managing Partner: Shri Sabu Varghese, for an extent area of 4-3046 Hectares in Sy. No.441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 at Palakkuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala, for a period of one year from the date of issue of this letter or validity of Statutory Certificate, whichever is earlier, subject to strict compliance of conditions mentioned below:**

1. Manager shall not take up any appointment in any capacity whatsoever in another mine.
2. The Manager shall not allow any person for employment in the mine unless such persons have been imparted initial / periodic vocational training as required under Rule 6 to 9 and on-the-job training(s) as required under Rule 12 to 15 of the Mines Vocational Training Rules, 1966.
3. Every competent person in the mine shall be authorised for which he has been employed and he shall be issued with a certified copy of the statutory provisions related to his work as required under Reg.39(2) of the Metalliferous Mines Regulations, 1961.
4. Adequate number of Supervisors (Mining Mate Certificate or above) shall be appointed in each working shift to assist the Manager.
5. No deep hole drilling and blasting shall be conducted unless written permission has been obtained under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
6. No Heavy Earth Moving Machinery (HEMM) shall be deployed without obtaining written permission under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961.
7. As required under Regulation 160(4) of the Metalliferous Mines Regulations, 1961, no person whose wages/payment depends on the amount of mineral, rock or debris obtained by firing shots, shall be appointed to perform the duties of a blaster. No outside person shall perform the duties of the blaster, and it shall be done only by statutory personnel appointed at the mine. Thus, no agreement for blasting can be made with the explosive supplier or with any other person/firm.
8. The provisions of Regulation 164(1A)(c) and 164(1B)(a) of the Metalliferous Mines Regulations, 1961 shall be strictly complied with in case any public road or railway or permanent building/structure not belonging to the owner is/are situated within the danger zone.
9. The total amount of explosive used per day shall not exceed 75 kg, and not more than 50 shots shall be made in a day with electric detonators. [If deep hole blasting permission is granted, the explosives quantity may be increased to not more than 500 kg and the number of shots may be as per the study made by the manager as per Reg. 160(5)]. [ *If deep hole blasting permission is granted, the explosives quantity may be increased to not more than 500 kg and the number of shots may be as per the study made by the manager as per Reg. 160(5)*]
10. No underground workings shall be made.
11. The average daily employment of persons at the mine shall not exceed 100 in all.

12. Wet drilling shall be done by directing a water jet on to the tip of the cutting edge of the ergonomically designed drill machine to **prevent dreaded disease silicosis. The jack-hammer drill machines shall be ergonomically designed to minimise harm from vibration and noise** .
13. Airborne dust survey as provided in Regulation 124(3)(a) shall be done to ascertain the concentration of respirable dust in the air and also to know the percentage of free silica in the dust generated at the mine.
- 14. No mining operations shall be conducted beyond daylight hours.**
15. Above permission shall stand cancelled as soon as the person, to whom this authorisation is being granted, leaves the services of the mine under reference. However, the Manager shall not vacate his office without giving due notice in writing to the owner or agent at least 30 days before the day on which he wishes to vacate his office . A copy of such notice shall be submitted to the Director of Mines Safety, Bengaluru Region .
16. *On or before the 01<sup>st</sup> day of February in every year, Owner/Agent/Manager shall submit Annual Return in respect of the preceding calendar year ONLINE through ShramSuvidha portal < <https://return.shramsuvudha.gov.in/user/login>>and <[www.dgms.gov.in](http://www.dgms.gov.in)>*
17. All applications for permissions as required under the Mines Act, 1952 and its subordinate legislation shall be submitted ONLINE through website-<[www.dgms.gov.in](http://www.dgms.gov.in)>.
18. For blasting only well-insulated cable of sufficient length to permit blaster to take proper shelter shall be used.
19. Whereby reason of absence or for any other reason, the Manager is unable to exercise daily personal, supervision, a person holding at least **valid Foreman's Certificate** as substitute shall be authorised to act as Manager of the mine in compliance with Regulation 34(7) (a) (1) and if no such qualified person is available, the mine workings should be kept suspended during such absence of the Manager. Attention is drawn to Regulation 34(7) (a) and (b) in respect of the period of authorisation permitted, an intimation of authorisation to Director General of Mines Safety, Dhanbad and the Director of Mines Safety, Bengaluru Region.
20. The above authorisation shall stand cancelled as soon as the person to whom it is being granted leaves the service at the mine under reference.
21. Intimation about the termination of Manager as a result of his Transfer/Termination of Service/ Resignation shall also be submitted in Form I of the First Schedule immediately.
22. No Ore dressing /handling/processing plant is attached with the mine.
23. Notwithstanding anything contained above, the authorisation may be withdrawn at any time as provided in the aforesaid Regulation.
24. If at any time anyone of the conditions, subject to which this authorisation has been granted, is violated or not complied with, this authorisation shall be deemed to have revoked with immediate effect.
25. In the event of any change in the circumstances connected with this authorisation, intimation thereof shall be sent to this Directorate.
26. This authorisation is being granted without prejudice to any other statutory provisions, which may be or may become applicable at any time.
27. This authorisation may be amended, modified or withdrawn at any time if considered necessary in the interest of safety.
28. Please note that this authorisation is not likely to be renewed unless the Manager's certificate is revalidated.
29. A hard copy of this permission shall be kept at the manager office for reference and strict compliance.

Your Faithfully



SAKET BHARATI (DIRECTOR - BENGALURU REGION)

THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.





National Accreditation Board for  
Testing and Calibration Laboratories

**CERTIFICATE OF ACCREDITATION**

**POLUCHEM LABORATORIES PVT. LTD.**

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2017**

**"General Requirements for the Competence of Testing &  
Calibration Laboratories"**

for its facilities at

661 A, PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM, KERALA, INDIA

in the field of

**TESTING**

Certificate Number: TC-6589

Issue Date: 25/08/2023

Valid Until: 24/08/2025

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

Name of Legal Entity: POLUCHEM LABORATORIES PVT. LTD.

Signed for and on behalf of NABL



N. Venkateswaran  
Chief Executive Officer



**POLUCHEM LABORATORIES PVT LTD**

**CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY**

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

**ACCREDITED BY KSPCB AS "A" GRADE LABORATORY**  
**TEST REPORT**

<b>Client Name &amp; Address</b>	<b>Certificate No:</b>	PL//RT/AMB/4123/2025
<b>M/s. S.S.GRANITES</b> (Granite Building Stone Quarry) Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 <b>Village</b> : Palakkuzha <b>Taluk</b> : Muvattupuzha <b>District</b> : Ernakulam <b>State</b> : Kerala	Date of issue:	31.03.2025
	Monitoring Period	<b>ENVIRONMENT MONITORING FOR 15<sup>th</sup> HALF YEARLY COMPLIANCE REPORT OCT 2024 – MAR 2025 (Post Monsoon/Winter) (24 hrs Monitoring)</b>
	Monitoring Location	<b>Ambient Air Quality Monitoring –CORE ZONE Near NW side Mine Boundary Gps Reading : N 09° 54' 05.65", E 76° 35 ' 47.42"</b>
	Sample description	<b>Ambient Air Quality Monitoring at Core Zone</b>


**Ambient Air Quality Monitoring Analysis Result- Core Zone- Near NW side Mine Boundary.**

SL NO	Monitoring Date	Particulate Matter P.M10 $\mu\text{g}/\text{m}^3$	Particulate Matter P.M2.5 $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Nitrogen dioxide NO <sub>2</sub> $\mu\text{g}/\text{m}^3$
		Test Method IS 5182 Part 23 2006 RA 2012	Test Method CPCB	Test Method IS 5182 Part 2 2001 RA 2017	Test Method IS 5182 Part 06 2006 RA 2017
		Limit as per NAAQS 100 $\mu\text{g}/\text{m}^3$	Limit as per NAAQS 60 $\mu\text{g}/\text{m}^3$	Limit as per NAAQS 80 $\mu\text{g}/\text{m}^3$	Limit as per NAAQS 80 $\mu\text{g}/\text{m}^3$
01	21-12-2024	58.4 $\mu\text{g}/\text{m}^3$	28.6 $\mu\text{g}/\text{m}^3$	5.6 $\mu\text{g}/\text{m}^3$	12.1 $\mu\text{g}/\text{m}^3$
02	25-03-2025	56.3 $\mu\text{g}/\text{m}^3$	31.2 $\mu\text{g}/\text{m}^3$	8.7 $\mu\text{g}/\text{m}^3$	15.6 $\mu\text{g}/\text{m}^3$

- Note :** \* NAAQS-National Ambient Air Quality Standards  
 • Gps reading recorded by RQP – WGS 84 system Followed

DATE	AMBIENT TEMPERATURE		AVG. WIND SPEED DURING MONITORING
	MIN	MAX	
21-12-2024	25.0 °	31.0 °	9 km/h SE
25-03-2025	27.0 °	34.0 °	7 km/h SE

\* End of the Report\*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory	For and on behalf of POLUCHEM LABORATORIES (P) LTD.
	 AUTHORIZED SIGNATORY QUALITY MANAGER POLUCHEM LABORATORIES PVT. LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY  
TEST REPORT

<b>Client Name &amp; Address</b>	<b>Certificate No:</b>	PL//RT/AMB/4124/2025
<b>M/s. S.S.GRANITES</b> (Granite Building Stone Quarry) Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 <b>Village</b> : Palakkuzha <b>Taluk</b> : Muvattupuzha <b>District</b> : Ernakulam <b>State</b> : Kerala	Date of issue:	31.03.2025
	Monitoring Period	<b>ENVIRONMENT MONITORING FOR 15<sup>th</sup> HALF YEARLY COMPLIANCE REPORT OCT 2024- MAR 2025 (Post Monsoon/Winter) (24 hrs Monitoring)</b>
	Monitoring Location	<b>Ambient Air Quality Monitoring -BUFFER ZONE Near Main Office -NW side from Mine Boundary Gps Reading : N 09° 54' 12.65", E 76° 35 ' 45.97"</b>
	Sample description	<b>Ambient Air Quality Monitoring at Buffer Zone</b>


### Ambient Air Quality Monitoring Analysis Result- Buffer Zone - Near Main Office

SL NO	Monitoring Date	Particulate Matter P.M10 µg/m <sup>3</sup>	Particulate Matter P.M2.5 µg/m <sup>3</sup>	Sulphur dioxide SO <sub>2</sub> µg/m <sup>3</sup>	Nitrogen dioxide NO <sub>2</sub> µg/m <sup>3</sup>
		Test Method IS 5182 Part 23 2006 RA 2012	Test Method CPCB	Test Method IS 5182 Part 2 2001 RA 2017	Test Method IS 5182 Part 06 2006 RA 2017
		Limit as per NAAQS 100 µg/m <sup>3</sup>	Limit as per NAAQS 60 µg/m <sup>3</sup>	Limit as per NAAQS 80 µg/m <sup>3</sup>	Limit as per NAAQS 80 µg/m <sup>3</sup>
01	21-12-2024	49.6 µg/m <sup>3</sup>	21.3 µg/m <sup>3</sup>	7.4 µg/m <sup>3</sup>	8.2 µg/m <sup>3</sup>
02	25-03-2025	47.2 µg/m <sup>3</sup>	20.4 µg/m <sup>3</sup>	6.5 µg/m <sup>3</sup>	9.6 µg/m <sup>3</sup>

- Note :** \* NAAQS-National Ambient Air Quality Standards  
 • Gps reading recorded by RQP - WGS 84 system Followed

DATE	AMBIENT TEMPERATURE		AVG. WIND SPEED DURING MONITORING
	MIN	MAX	
21-12-2024	25.0 °	31.0 °	9 km/h SE
25-03-2025	27.0 °	34.0 °	7 km/h SE

\* End of the Report\*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory	For and on behalf of POLUCHEM LABORATORIES (P) LTD.
	 AUTHORIZED SIGNATORY

**SREEJA RAMESH**  
 QUALITY MANAGER  
 POLUCHEM LABORATORIES PVT. LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY  
TEST REPORT

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>	PL//RT/4125/2025
<b>M/s. S.S.GRANITES</b> (Granite Building Stone Quarry) Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 <b>Village</b> : Palakkuzha <b>Taluk</b> : Muvattupuzha <b>District</b> : Ernakulam <b>State</b> : Kerala		<b>Date of issue:</b>	31.03.2025
		<b>Monitoring Period</b>	<b>ENVIRONMENT MONITORING FOR 15<sup>th</sup> HALF YEARLY COMPLIANCE REPORT OCT 2024- MAR 2025 (Post Monsoon/Winter) (24 hrs Monitoring)</b>
		<b>Monitoring Location</b>	<b>Ambient Air Quality Monitoring -CORE ZONE Near NW side Mine Boundary Gps Reading : N 09° 54' 05.65", E 76° 35 ' 47.42"</b>
		<b>Sample description</b>	<b>Ambient Sound Level (Leq) at Core Zone</b>
<b>TIME</b>	<b>AMBIENT SOUND LEVEL (Leq) - Core Zone - RESULT</b>		
	<b>DATE</b>		
	<b>21-12-2024</b>		<b>25-03-2025</b>
10.00 Hrs	52.3 dB (A)		54.9 dB (A)
11.00 Hrs	51.4 dB (A)		54.6 dB (A)
12.00 Hrs	52.3 dB (A)		56.1 dB (A)
13.00 Hrs	51.4 dB (A)		54.8 dB (A)
14.00 Hrs	54.2 dB (A)		53.6 dB (A)
15.00 Hrs	53.5 dB (A)		51.4 dB (A)
16.00 Hrs	50.1 dB (A)		52.8 dB (A)
17.00 Hrs	51.9 dB (A)		49.3 dB (A)
18.00 Hrs	48.4 dB (A)		48.7 dB (A)
19.00 Hrs	51.6 dB (A)		51.2 dB (A)
20.00 Hrs	48.9 dB (A)		48.6 dB (A)
21.00 Hrs	47.6 dB (A)		47.6 dB (A)
22.00 Hrs	49.5 dB (A)		46.8 dB (A)
23.00 Hrs	41.3dB (A)		47.4 dB (A)
00.00 Hrs	39.8dB (A)		42.6 dB (A)
01.00 Hrs	38.4 dB (A)		43.4 dB (A)
02.00 Hrs	37.4 dB (A)		38.9 dB (A)
03.00 Hrs	38.7 dB (A)		38.6 dB (A)
04.00 Hrs	38.4 dB (A)		37.3 dB (A)
05.00 Hrs	41.2 dB (A)		41.4 dB (A)
06.00 Hrs	40.8 dB (A)		40.2 dB (A)
07.00 Hrs	52.3 dB (A)		52.7 dB (A)
08.00 Hrs	51.7 dB (A)		51.6 dB (A)
09.00 Hrs	53.8 dB (A)		53.7 dB (A)
<b>Leq (Day time)</b>	<b>51.3 dB (A)</b>		<b>53.5 dB (A)</b>
<b>Leq(Night time)</b>	<b>39.9 dB (A)</b>		<b>39.9 dB (A)</b>

\*End of the Report \*

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

SREEJA KAMARATH  
QUALITY MANAGER  
POLUCHEM LABORATORIES PVT. LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY  
TEST REPORT

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>	PL//RT/4127/2025
<b>M/s. S.S.GRANITES</b> (Granite Building Stone Quarry) Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 <b>Village</b> : Palakkuzha <b>Taluk</b> : Muvattupuzha <b>District</b> : Ernakulam <b>State</b> : Kerala		<b>Date of issue:</b>	31.03.2025
		<b>Monitoring Period</b>	<b>ENVIRONMENT MONITORING FOR 15<sup>th</sup> HALF YEARLY COMPLIANCE REPORT OCT 2024- MAR 2025 (Post Monsoon/Winter) (24 hrs Monitoring)</b>
		<b>Monitoring Location</b>	<b>Ambient Air Quality Monitoring -BUFFER ZONE Near Main Office -NW side from Mine Boundary Gps Reading : N 09° 54' 12.65", E 76° 35 ' 45.97"</b>
		<b>Sample description</b>	<b>Ambient Sound Level (Leq) at Buffer Zone</b>
<b>TIME</b>	<b>AMBIENT SOUND LEVEL (Leq) - Buffers Zone - RESULT</b>		
	<b>DATE</b>		
	<b>21-12-2024</b>		<b>25-03-2025</b>
10.00 Hrs	48.6 dB (A)		48.5 dB (A)
11.00 Hrs	49.6 dB (A)		46.6 dB (A)
12.00 Hrs	48.6 dB (A)		47.4 dB (A)
13.00 Hrs	50.1 dB (A)		45.7 dB (A)
14.00 Hrs	51.1 dB (A)		48.4 dB (A)
15.00 Hrs	50.3 dB (A)		47.4 dB (A)
16.00 Hrs	51.2 dB (A)		46.9 dB (A)
17.00 Hrs	50.8 dB (A)		51.8 dB (A)
18.00 Hrs	48.9 dB (A)		48.9 dB (A)
19.00 Hrs	51.7 dB (A)		51.7 dB (A)
20.00 Hrs	48.6 dB (A)		48.6 dB (A)
21.00 Hrs	47.9 dB (A)		47.3 dB (A)
22.00 Hrs	48.3 dB (A)		49.2 dB (A)
23.00 Hrs	47.6 dB (A)		47.6 dB (A)
00.00 Hrs	39.6 dB (A)		38.2 dB (A)
01.00 Hrs	38.6 dB (A)		36.9 dB (A)
02.00 Hrs	37.1 dB (A)		37.6 dB (A)
03.00 Hrs	38.6 dB (A)		36.7 dB (A)
04.00 Hrs	37.9 dB (A)		37.3 dB (A)
05.00 Hrs	41.1 dB (A)		42.1 dB (A)
06.00 Hrs	40.9 dB (A)		43.4 dB (A)
07.00 Hrs	51.7 dB (A)		51.6 dB (A)
08.00 Hrs	53.6 dB (A)		53.4 dB (A)
09.00 Hrs	52.7 dB (A)		52.4 dB (A)
<b>Leq (Day time)</b>	<b>49.4 dB (A)</b>		<b>49.8 dB (A)</b>
<b>Leq(Night time)</b>	<b>37.4 dB (A)</b>		<b>39.6 dB (A)</b>

\*End of the Report \*

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

**SREEJA RAMESH**  
QUALITY MANAGER

POLUCHEM LABORATORIES PVT. LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Ref.No. PL/RT/BW/10250/2024

Date of Issue: 29-12-2024

Page 01 of 02

Name & address of customer

: **M/s. S.S.GRANITES**

(Granite Building Stone Quarry)

Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2,  
457/4-3, 457/5, 459/2A3 & 459/2B2

Village : Palakkuzha

Taluk : Muvattupuzha

District : Ernakulam

State : Kerala

: PoluChem Laboratory Sample Collector

: **Bore WELL Water – 15<sup>th</sup> HALF YEARLY MONITORING**

: Bore Well Water Near Workshop

(Gps Reading: N 09° 54' 13.68", E 76° 35' 46.68")

: **21-12-2024 -(OCT-24-MAR-25 HYCR- Post Monsoon/Winter)**

: 22-12-2024

: 29-12-2024

Sample drawn by  
Sample description  
Location of sampling

Date of sample collected

Date of analysis started


Date of completion of analysis

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983	5 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983	Agreeable	Agreeable
Taste	IS 3025(P) 07– 1983	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984	3.1 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983	6.74	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 15 – 1984	240 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983	169.7 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986	175.6 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988	22.34 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991	32.51 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994	24.19 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003	1.72 mg/l	0.3 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 31 – 1988	7.54 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 – 2008	0.19 mg/l	1.0 mg/l
Nitrate as NO <sub>3</sub>	IS 3025 (P)34 – 1988	2.52 mg/l	45 mg/l
Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (P) 43-1992	BDL	0.001 mg/l

Note : BDL – Below Detection Level

For PoluChem Laboratories (P) Ltd.

Authorized signatory

  
**SREEJA RAMESH**  
QUALITY MANAGER  
POLUCHEM LABORATORIES PVT. LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

Continuation of Test Certificate No:

10250/2024

Page 02 of 02

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 – 2003	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37– 1988	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42– 1992	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59– 2006	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 – 2003	BDL	0.05 mg/l
Zinc as Zn	IS 3025(P) 49 – 1994	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 – 1994	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27 – 1986	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47– 1994	BDL	0.01 mg/l
Aluminum as Al	IS 3025 (P) 5 – 2003	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57– 2005	BDL	0.5 mg/l
Anionic detergents as MBAS	IS 13428:2005	BDL	0.2 mg/l
Mineral Oil	IS 3025(P)39-1991	BDL	0.5 mg/l

Note : BDL – Below Detection Level

## MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS – 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981	Absent	Absent
E coli	Present or Absent/100ml	IS 1622: 1981	Absent	Absent

For PoluChem Laboratories (P) Ltd.

\* End of the report\*

Authorized signatory  
**SREEJA RAMESH**  
QUALITY MANAGER  
POLUCHEM LABORATORIES PVT. LTD

The above results are related only to the sample submitted for analysis. This test report shall not be reproduced except in full, without the written approval of the laboratory.



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Ref.No PL/RT/OW/4128/2025

Date of Issue: 31-03-2025

Page 01 of 02

Name & address of customer

: **M/s. S.S.GRANITES**

(Granite Building Stone Quarry)

Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2,  
457/4-3, 457/5, 459/2A3 & 459/2B2

**Village** : Palakkuzha

**Taluk** : Muvattupuzha

**District** : Ernakulam

**State** : Kerala

Sample drawn by  
Sample description  
Location of sampling

: PoluChem Laboratory Sample Collector

: **WELL Water – 15<sup>th</sup> HALF YEARLY MONITORING**

: Open Well Water Near office

(Gps Reading: N 09° 54' 12.65", E 76° 35' 45.97")

Date of sample collected

: 25-03-2025 - (OCT- 24 – MAR- 25 HYCR- Post Monsoon/Winter)

Date of analysis started

: 26-03-2025

Date of completion of analysis

: 28-03-2025

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983	Agreeable	Agreeable
Taste	IS 3025(P) 07– 1983	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984	1.1 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983	6.55	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 15 – 1984	30.5 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983	16.12 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986	7.65 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988	8.6 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991	4.1 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994	1.56 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003	0.10 mg/l	0.3 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 31 – 1988	6.95 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 – 2008	0.16 mg/l	1.0 mg/l
Nitrate as NO <sub>3</sub>	IS 3025 (P)34 – 1988	1.43 mg/l	45 mg/l
Phenolic Compound as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (P) 43-1992	BDL	0.001 mg/l

Note : BDL – Below Detection Level

For PoluChem Laboratories (P) Ltd.

Authorized signatory

INSUJAN  
SRIKANTH MESH  
QUALITY MANAGER  
POLUCHEM LABORATORIES PVT LTD



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

Continuation of Test Certificate No: \_\_\_\_\_

4128/2025

Page 02 of 02

Parameters tested	Test method	Results	Acceptable Limits As per IS-10500-2012
Selenium as Se	IS 3025 (P)56 – 2003	BDL	0.01 mg/l
Arsenic as As	IS 3025(P) 37– 1988	BDL	0.01 mg/l
Copper as Cu	IS 3025(P) 42– 1992	BDL	0.05 mg/l
Manganese as Mn	IS 3025(P) 59– 2006	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992	BDL	0.003 mg/l
Chromium as Cr	IS 3025 (P)52 – 2003	BDL	0.05 mg/l
Zinc as Zn	IS 3025(P) 49 – 1994	BDL	5 mg/l
Mercury as Hg	IS 3025(P) 48 – 1994	BDL	0.001 mg/l
Cyanide as CN	IS 3025(P)27 – 1986	BDL	0.05 mg/l
Lead as Pb	IS 3025(P) 47– 1994	BDL	0.01 mg/l
Aluminum as Al	IS 3025 (P) 5 – 2003	BDL	0.03 mg/l
Boron as B	IS 3025(P) 57– 2005	BDL	0.5 mg/l
Anionic detergents as MBAS	IS 13428:2005	BDL	0.2 mg/l
Mineral Oil	IS 3025(P)39-1991	BDL	0.5 mg/l

Note : BDL – Below Detection Level

### MICROBIOLOGY ANALYSIS

Parameters tested	Unit	Test method	Results	Acceptable Limit As per IS – 10500-2012
Coliforms	MPN/100ml	IS 1622: 1981	110	Absent
E coli	Present or Absent/100ml	IS 1622: 1981	Absent	Absent

For PoluChem Laboratories (P) Ltd.

Authorized signatory

\* End of the report\*

SREEJA RAMESH  
QUALITY MANAGER

POLUCHEM LABORATORIES PVT. LTD

The above results are related only to the sample submitted for analysis. This test report shall not be reproduced except in full, without the written approval of the laboratory.



# POLUCHEM LABORATORIES PVT LTD

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085. [www.poluchem.com](http://www.poluchem.com), [poluchem@gmail.com](mailto:poluchem@gmail.com)

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

## TEST REPORT

Client Name & Address	Certificate No:	PL//RT/SO/4129/2025
<b>M/s. S.S.GRANITES</b> (Granite Building Stone Quarry) Sy. No : 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 <b>Village</b> : Palakkuzha <b>Taluk</b> : Muvattupuzha <b>District</b> : Ernakulam <b>State</b> : Kerala	Date of issue:	31.03.2025
	Date of monitoring	25-03-2025
	Monitoring Location	<b>Soil Sample Near Mine Boundary</b>
	Sample Description	Soil – Near Mining lease Area (2024-2025)
<b>Parameter</b>		<b>Results</b>
pH		6.24
Specific Conductance		99 $\mu$ S/cm
Texture		Sandy Loam
Colour		Brown
Bulk Density		0.991 gm/cc
Moisture		8.7 %
Organic Carbon		0.64%
Available Phosphorus as P		96 kg/ha
Available Potassium as K		55 kg/ha
Available Nitrogen as N		137 kg/ha

For PoluChem Laboratories (P) Ltd:

**SREEJADAMESH**  
Authorized Signatory  
QUALITY MANAGER

POLUCHEM LABORATORIES PVT. LTD.

ജയ കെ.എ.

പ്രസിഡന്റ്

പാലക്കാട് ഗ്രാമപഞ്ചായത്ത്

എറണാകുളം ജില്ല, പിൻ - 686 662

Ph: 0485 - 2252334 (Off.)



നിരപ്പത്ത് ഹൗസ്

പാലക്കാട് പി.ഒ.

പാലക്കാട് - 686 662

Mob: 9947338436

9496045834

തീയതി... 21/12/24

സാക്ഷ്യപത്രം

പാലക്കാട് ഗ്രാമപഞ്ചായത്തിൽ

ചട്ടക്കമ്പി പാലക്കാട് ലിൽ പ്രവർത്തിക്കുന്ന  
ട്ര.ട. ഗ്രാമപഞ്ചായത്തിൽ നിന്നും രൂ. 50,000/- (അമ്പതു  
രൂപ മാത്രം) രൂപ തുകയ്ക്ക് ദിവസം രെട്ടപട്ടിയിൽ

കർമ്മം.



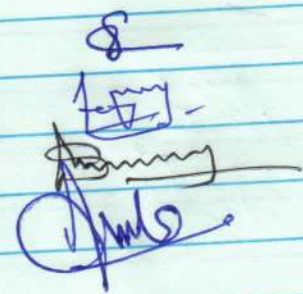
ജയ കെ.എ.  
പ്രസിഡന്റ്  
പാലക്കാട് ഗ്രാമപഞ്ചായത്ത്  
പാലക്കാട് പി.ഒ. - 686 686  
PH: 9496045834

minutes Report - 12

Date - 10-2-2025

SS granites -ന്റെ EMC ന്റെ 12-ാം മത് യോഗം കോളി നായർ (ശ്രീ. സത്യ വർധിനി) ന്റെ നേതൃത്വത്തിൽ നടന്നു. യോഗത്തിൽ 2 മൂലം അംഗങ്ങളും സന്നിഹിതരായിരുന്നു. കൃഷ്ണ കാലഘട്ടം ക്യാമ്പിലെ പ്രവർത്തനങ്ങളും മറ്റ് യോഗത്തിൽ 2 മൂലം നിർദ്ദേശങ്ങളും നിരൂപനങ്ങളും വിലയിരുത്തിക്കൊടുക്കുകയും ചെയ്തു. മറ്റ് 2 മത് മത് വരുത്തുകയും ചെയ്തു. തുടർന്ന് ക്യാമ്പി പ്രവർത്തനങ്ങൾ യോഗ നിരൂപനങ്ങൾ 2 മൂലം കൈമാറ്റം ചെയ്തു.

- 2 പങ്കെടുത്തവർ
- 1) Sabu Varghese
  - 2) Jose Varghese
  - 3) Sibichan George
  - 4) Anooz Abraham
- നിരൂപനങ്ങൾ



1) വരുന്നവയലേ യോഗത്തിൽ ക്യാമ്പി പ്രവർത്തനത്തിൽ സജ്ജമാക്കുകയും ചെയ്തു. നിരൂപനങ്ങൾ

2) അന്തിമമായിട്ടും 2131 മി ക്യാമ്പിലേക്കും അനുബന്ധ കോളിനും 2222 ശീതലാപിനും അതിനും യോഗത്തിൽ Rest-sheer - ക്ക് സഹായം നിരൂപനം 213.

# DEPTH TO WATER TABLE IN THE NEAREST DUG WELL ALONG WITH GEOTAGGED PHOTOGRAPH.

**Project Detail :**

M/s. S.S Granites having quarry lease area of 4.3046 Ha at Survey No. 441/4-1, 441/5, 455/6A,457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 in PalakkuzhaVillage, Muvattupuzha Taluk, Ernakulam. (Proposal No. SIA/KL/MIN/48246/2024).

**Topography :**

The aggregate mining has no adverse effect on the water regime of the area as the water table is deeper and will not be disturbed by mining operations. There would not be any adverse impact on water quality or quantity due to the proposed quarry operations.

The quarry lease area is a sloppy hilly terrain. Part of the area covered under Charnockite rock boulders and soil with moderate vegetation. The highest elevation is about 170 AMSL towards Eastern side of the lease area and the lowest elevation is 110 AMSL towards Western part of the lease. The quarry lease boundary and nearest well inspected is shown below.



**Details of Open well Inspected:**

**1) Open Well-1**

**Geo- Cordinates : Latitude : 9° 54'7.315" N Longitude: 76° 35'36.473"E**

**Distance of Well to Quarry Boundary : 260 mtr NW from Quarry Boundary.**

**MSL of Well : 96 mtr**

**Diameter of well : 2.5 mtr**

**Depth to Water Level (MSL) in Open Well : 90 mtr.**

**Depth of Water in Open Well from Ground Level : 6.0 mtr.**

**Lowest Level of Quarry Working : 110 Mtr MSL.**



2) Open Well-2

Geo- Coordinates : Latitude : 9° 54'0.195" N Longitude: 76° 35'41.279"E

Distance of Well to Quarry Boundary : 101 mtr SW from Quarry Boundary.

MSL of Well : 89 mtr

Diameter of well : 3.0 mtr

Depth to Water Level (MSL) in Open Well : 84 mtr.

Depth of Water in Open Well from Ground Level : 5.0 mtr.

Lowest Level of Quarry Working : 110 Mtr MSL.



3) Open Well-3

Geo- Coordinates : Latitude : 9° 54'12.779" N Longitude: 76° 35'45.882"E  
Distance of Well to Quarry Boundary : 180 mtr North from Quarry Boundary.  
MSL of Well : 130 mtr  
Diameter of well : 3.5 mtr  
Depth to Water Level (MSL) in Open Well : 124 mtr.  
Depth of Water in Open Well from Ground Level : 6.0 mtr.  
Lowest Level of Quarry Working : 110 Mtr MSL.

