

# **COMPLIANCE REPORT**

**APRIL 2020 - SEPTEMBER 2020**

***M/s Wayanad Granites***

***(Quarry Project)***

***Wayanad District***

***Kerala***

# WAYANAD GRANITES

Pinangode PO, Vengappally, Wayanad - 673121  
Ph: 04936 204211 GSTIN: 32AABFW3070F1ZK

Dt.12-11-2020

**The Additional Principal Chief Conservator of Forests (C)**  
Ministry of Environment, Forests & Climate Change,  
4<sup>th</sup> Floor, E& F Wing, Kendriya Sadan,  
Koramangala, Bangalore - 560034

**Ref :- File No. 1132/EC/SEIAA/2017**

**Sub :- Environment Clearance – Quarry project at Vengappally village & Panchayath, Vythiri Taluk, Wayanad District, Kerala. – Compliance Report – First half - Reg.**

**Respected Sir,**

The Quarry (Building stone) project was accorded Environmental Clearance for **5.1625 Ha.** by order No. **1132/EC/SEIAA/2017** dated 29-12-2017 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **First half** (April 2020 to September 2020) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

**For M/s Wayanad Granites**

**Mr. M.M Thomas**  
**(Managing Partner)**



**Copy to:-**  
**The Member Secretary**  
**State Environment Impact Assessment Authority (SEIAA),**  
**Thiruvananthapuram, Kerala.**

Encl: - As Above

## **Building stone Quarry Project**

### ***Situated at***

**SURVEY NO. 371/1, 371/2/1, 372/1, 372/4, 372/2 & 373/1  
AT VENGAPPALLY VILLAGE, VYTHIRI TALUK,  
WAYANAD DISTRICT, KERALA**

**ENVIRONMENTAL CLEARANCE ORDER**

**NO: 1132/EC/SEIAA/2017**

**Dated: 29.12.2017**

***Prepared and Submitted***

***BY***

**M/s. Wayanad Granites**

**Wayanad District**

**Kerala**

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**INTRODUCTION**

The quarry project **of M/s Wayanad Granites** is situated at Survey No. 371/1, 371/2/1, 372/1, 372/4, 372/2 & 373/1 at Vengappally village & Panchayath, Vythiri Taluk, Wayanad District, Kerala.

**M/s Wayanad Granites** was obtained with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 29-12-2017. As part of general condition No.37 of Environmental Clearance order and EIA Notification the half yearly compliance report needs to be submitted by the project proponent.

This report contains the compliance of conditions of Environmental Clearance for the period of **April 2020 - September 2020**.

# **SPECIFIC CONDITIONS**

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<b>Sl. No</b>	<b>Conditions</b>	<b>Compliance</b>
01	<b>If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area.</b>	The project proponent had conducted a bio diversity study and submitted the report at State Environmental Impact Assessment Authority (SEIAA), Kerala. The identified species of endemic to Western Ghats will be properly protected. The saplings will transplant to appropriate location.
02	<b>All condition suggested by the field inspection reports as noted above should be strictly implemented before starting mining.</b>	All the condition suggested by the field inspection reports are strictly implemented

# **GENERAL CONDITIONS**



**GENERAL CONDITIONS**

<b>Sl. No</b>	<b>Conditions</b>	<b>Compliance</b>	
<b>01</b>	<b>Rain Water Harvesting capacity should be installed as per the prevailing provisions of KBR / KPBR, unless otherwise specified.</b>	The project proponent has developed rain water harvesting pond in the quarry site as Rain Water Harvesting structure. The pond situated at the lowest level of project site. The surface runoff is channelized to the pond through garland drains. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission.	
<b>02</b>	<b>Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.</b>	The Environmental Monitoring Cell (EMC) was formed with Mr. Peter T as head of the monitoring cell. The EMC meetings of the cell convene periodically and evaluate the activities towards the stipulations of Environmental Clearance order.	
	Sl. No.	Post	Name
	1.	Head of the monitoring cell	: Peter T V
	2.	Member	: Ajeesh Thomas
	3.	Member	: Vimal Madhav
<b>03</b>	<b>Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal</b>	The project proponent has been planting various tree saplings and native species in the project site to enhance the eco – diversity in the industry. Green belt is an important component in the mining sector. There	

	<p><b>roads.</b></p>	<p>is also natural vegetation including trees, shrubs and climbers are presents in the sides of road and parking area. This will help to reduce air and sound pollution.</p>
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<p><b>04</b></p>	<p><b>Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.</b></p>	<p>The installation of solar can reduce the consumption from conventional sources therefore the project proponent has installed five solar street lights in the project site.</p>
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05	<b>Sprinklers shall be installed and used in the project site to contain dust emissions.</b>	The emission of dust is a major adverse effect of a mining industry. Emission of dust is one of the main problems in mining area. To prevent dust emissions from the road while transportation of materials, the project proponent is splashing water on roads by deploying a vehicle at project site. There is sufficient water in the rain water harvesting ponds for the purpose. Sprinklers are also installed in the project site.
06	<b>Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.</b>	Eco restoration is in an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining area. The project proponent started to plant various saplings in and around the project site.
07	<b>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</b>	After closure of the mine, the project proponent is intending to retain 10 percent of total excavated pit as rain water storage area. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area.

	<b>on reclamation of pit is stipulated in the EC.</b>	
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<b>08</b>	<b>Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.</b>	<b>Social (CSR)</b>	The project proponent has carrying out many activities for social integration and community development. The details are given below in <b>Table No.3</b> . To improve the status of downtrodden people, the project proponent has been extending its supporting hands to implement more activities under Corporate Social Responsibility.
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<b>Date</b>	<b>Activities</b>	<b>Sector</b>	<b>Amount spent in Rs.</b>
<b>05-05-2020</b>	Chandran Athimoola	Infrastructure Development	6000
<b>08-05-2020</b>	House renovation Exp Paid to	Infrastructure Development	10000
<b>11-05-2020</b>	Nearest Colony	Social Justice/Food	62900
<b>14-05-2020</b>	Vengappally Grama Panchayath for New Building	Infrastructure Development	100000
<b>23-05-2020</b>	Chandran Athimoola	Infrastructure Development	6000
<b>06-06-2020</b>	KamarudheenKavumannam	Infrastructure Development	5150
<b>08-06-2020</b>	Vengappally Grama Panchayath for New Building	Infrastructure Development	100000
<b>11-06-2020</b>	UnniVengappally	Infrastructure Development	2550

<b>13-06-2020</b>	Zeenath	Infrastructure Development	5000
<b>17-06-2020</b>	Said (9847064201)	Infrastructure Development	1872
<b>20-06-2020</b>	C/o Anil MMT	Social Justice	2500
<b>20-06-2020</b>	Krishnan Vengappally	Infrastructure Development	13400
<b>04-07-2020</b>	Snehathanal Charitable trust	Social Justice	500
<b>03-07-2020</b>	Safeera Hospital aid	Health	500
<b>22-08-2020</b>	Mamutty Hospital aid	Health	500
<b>27-08-2020</b>	Vengappally Grama Panchayath for New Building	Infrastructure Development	100000
<b>08-09-2020</b>	Renjith Hospital aid	Health	500
<b>08-09-2020</b>	Kuttan House Maintenance Exp	Infrastructure Development	25000
<b>10-09-2020</b>	Kuttan House Maintenance Exp	Infrastructure Development	6200
<b>10-09-2020</b>	Vengappally Mosque	Social Justice	10000
<b>18-09-2020</b>	Klarikkuzhi Mohammed House Maintenance Exp	Infrastructure Development	25000
<b>19-09-2020</b>	Sharafudheen Mohammed House Maintenance Exp	Infrastructure Development	25000
<b>24-09-2020</b>	Klarikkuzhi Mohammed House Maintenance Exp	Infrastructure Development	15000
<b>24-09-2020</b>	Klarikkuzhi Mohammed House Maintenance Exp	Infrastructure Development	2304
<b>24-09-2020</b>	Klarikkuzhi Mohammed House Maintenance Exp	Infrastructure Development	5000
<b>TOTAL</b>			<b>530876</b>

09	<b>The lease area shall be fenced off with barbed wires to a maximum 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.</b>	To demarcate the lease area, the project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. All the boundary indicators (boards, stores, markings etc) will be protected at all times and shall be conspicuous.
10	<b>Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.</b>	The alarm can intimate the general public and labours that the blasting is going to happen. As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms in the quarry site.
11	<b>Control measures on noise and vibration prescribed by KSPCB should be implemented.</b>	To reduce noise level in the project site, the project proponent has implemented mitigate masseurs. The major noise generating sources from the quarry are:- <ul style="list-style-type: none"> <li>➤ Drilling by Jack hammers</li> <li>➤ Blasting</li> <li>➤ Breaking by JCB/Hitachi</li> <li>➤ Transportation</li> </ul> <p>The following control measures are undertaken to bringing down the noise</p>

		<p>levels:-</p> <ul style="list-style-type: none"> <li>❖ Proper maintenance of machinery and equipments</li> <li>❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.</li> </ul>
<b>12</b>	<b>Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.</b>	Quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution. This will help to limit the sound pollution.
<b>13</b>	<b>Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.</b>	All blasting activities are supervising by a qualified person with the specified regulations of explosive department. The blasting is being carrying out in controlled manner by using ordinary delayed detonators.
<b>14</b>	<b>A licensed person should supervise/control the blasting operations.</b>	The project proponent has appointed Second class manager and Mining Mate in the site to supervise/control exploitation of minor minerals including blasting at the project site. All activities of licensed persons are under the supervision of Environment Monitoring Cell. The certificate of mining mate is attached as <b>Annexure No.9 &amp;</b> certificate of Second class manager is attached as <b>Annexure No.10.</b> The project proponent also appointed the persons with first Aid

		Certificate and it is attached as <b>Annexure no. 11.</b>
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<b>15</b>	<b>Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.</b>	To contain dust emissions and for the trouble free transportation of materials, the project proponent has tarred the access road to the quarry site and maintaining in good manner. The project proponent splashes water on the road to arrest the dust production during summer season.
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<b>16</b>	<b>Overburden materials should be managed within the site and used for reclamation of mine pits as per mine closure plan/ specific conditions.</b>	In a building stone quarry project, the overburden and topsoil need to extract during the time of mining, these natural resources are staked in the project site. This will be used for plantation, haulage roads and land filling in the mining
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		<p>area. No overburden will let out from the project site. To prevent soil erosion grass is planted on the overburden and topsoil. This will be used for plantation, haulage roads and land filling in the mining area.</p>
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<p><b>17</b></p>	<p><b>Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific conditions.</b></p>	<p>The quarrying has been carrying out as per mining plan. To enhance safety and conserve environment, the project proponent is extracting the minerals by creating benches. The benches will not exceed 5 meters of height. The project maintains the width of benches minimum of 5 meters. The</p>
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<p><b>18</b></p>	<p><b>Mats to reduce fly rock blast to a maximum of 10</b></p>	<p>The project proponent is using blasting mat to reduce fly rocks during blasting.</p>
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	<b>PPV should be provided.</b>	The project proponent is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project proponent also assure the maximum PPV is under 10.
<b>19</b>	<b>Maximum depth of mining from general ground level at site shall not exceed 10m.</b>	Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The instruction regarding to this has given to the mines manager.
<b>20</b>	<b>No mining operations should be carried out at places having a slope greater than 45°.</b>	No mining operation will carry out with a slope greater than 45°
<b>21</b>	<b>Acoustic enclosures should be 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..</b>	To reduce the impact of sound to the labours in the unit, the project proponent has provided ear plugs. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project proponent is trying to enhance the vegetative cover by planting more tree saplings.
<b>22</b>	<b>The workers on the site should be provided with</b>	As part of safety the project proponent has provided adequate Personnel

	<b>the required protective equipments such as ear muffs, helmet, etc.</b>	Protective Equipments (PPE) such as helmets, ear plugs, safety belts, gloves, etc. to the labours in working site.
<b>23</b>	<b>Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.</b>	The project proponent has provided Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
<b>24</b>	<b>The transportation of minerals should be done in covered trucks to contain dust emissions.</b>	All vehicles with loaded materials are going outside as covered trucks to contain dust emissions.
<b>25</b>	<b>The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.</b>	The project proponent has been planting various saplings in the project area as a compensation of loss of trees while clearing the land for mining.
<b>26</b>	<b>Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.</b>	The used oil was sold to the approved recyclers as specified under relevant Rules/Regulations.
<b>27</b>	<b>Explosives should be stored in magazines in isolated place specified and approved by the explosives department.</b>	The Explosives are stored in magazine. The magazine is situated in an isolated place specified and approved by the explosives department.



28	<b>A minimum buffer distance of 100m meter from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.</b>	The project proponent has left minimum buffer distance of hundred meters from the boundary of the quarry to the nearest dwelling unit. The distance of the nearest house was 102 meter form the quarry.
29	<b>100 m buffer distance should be maintained from forest boundaries.</b>	There is no forest near to the project site. The nearest forest is Chembara Forest which is 12 km away from the project site.
30	<b>Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been</b>	The project proponent has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of “Consent to Operate” (Renewal) from

	<b>obtained before initiating activity.</b>	Kerala State Pollution Control Board is provided in <b>Annexure No.1.</b>
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<b>31</b>	<b>All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.</b>	The certificates obtained from concerned statutory authorities are enclosed in <b>Annexure No. 1, 2, 3, 4 &amp; 5</b>
	Name of the Statutory approval	Name of the Statutory authority
	<b>Environmental Clearance order</b>	State Environmental Impact Assessment Authority, Kerala
	<b>“Consent to Operate”</b>	Kerala State Pollution Control Board
	<b>Explosive License</b>	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
	<b>License for quarry operations</b>	Grama Panchayat
	<b>Lease Agreement</b>	<i>Mining and Geology Dept.</i>

<b>32</b>	<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</b>	The project is running as per plan submitted in Environmental Impact Assessment Authority, Kerala. At present there is no change in the scope of the project. The project proponent will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.
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	<b>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.</b>	
<b>33</b>	<b>The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.</b>	If the Authority insists to add additional safeguards and measures in the mining industry for safety and environmental sustainability, the project proponent will be complied with.
<b>34</b>	<b>The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including</b>	The stipulations by Statutory Authorities under different Acts and Notifications are complied with, including the provisions of Water (Prevention and Control of Pollution)

	<p><b>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 EIA notification, 2006.</b></p>	<p>Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, the public liability (Insurance) Act, 1991 and EIA notification, 2006.</p>
35	<p><b>The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both advertisement and the 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 Department of Environment and Climate Change, Govt. of Kerala 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</b></p>	<p>An advertisement in two local daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala.</p>

	<p><b>made within 10 days from the date of receipt of the Clearance letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.</b></p>	
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36	<p><b>A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / Municipality / Corporation / Urban Local Body and also to the Local 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.</b></p>	<p>A copy of the Environment Clearance letter was submitted to the Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone.</p>
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37	<p><b>The proponent shall submit six monthly reports on the status of compliance of the</b></p>	<p>The compliance report is being submitted to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&amp;CC,</p>
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	<p><b>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 State Environment Impact Assessment Authority (SEIAA) office.</b></p>	<p>Bangalore as mail. The monitored data of Air, Water and Noise is attached as <b>Annexure No. 6, 7 &amp; 8.</b></p>
<p><b>38</b></p>	<p><b>The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3ft 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</b></p>	<p>The details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order of 3 ft x 3 ft with green background and yellow letters of Times New Roman font.</p>

	<b>entrance of the quarry, visible to the public.</b>	
<b>39</b>	<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..</b>	An assurance in the form of affidavit was already submitted to SEIAA Kerala. The project is scrupulously following the conditions mentioned in the EC order.
<b>40</b>	<b>No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.</b>	The project proponent is not intending to expand the area of mine, technology and scope of working. The project will appear SEIAA for Environment Clearance if the project wants to expand its scope. The mining is progressing as per submitted plan.
<b>41</b>	<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</b>	The Rain water harvesting pond in the site is working as clarifiers to prevent the quarry waste within the site. The project proponent will install additional clarifiers in the project site to prevent sediments and wastes from quarry site to enter in to the main stream. The project proponent will constitute a Cell

	<b>first order streams, if any originating from the mine lease shall be taken.</b>	to monitor such commitments to the community.
42	<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 un loading points &amp; transfer point to reduce fugitive emissions.</b>	The project proponent has monitored the ambient air quality as per National Ambient Air Quality Standard (NAAQS), during the time of appraisal of the project. The project proponent is intending to increase splashing of water and installation of sprinklers at loading, unloading and transfer points..
43	<b>The top soil, if any, shall be temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be staked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of</b>	To prevent the soil erosion, the top soil and overburden are stacked in designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of State Environment Impact Assessment Authority (SEIAA). The Environment Monitoring Cell will monitor the execution of eco restoration.

	<p><b>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 bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.</b></p>	
<p><b>44</b></p>	<p><b>Catch drains and siltation ponds of appropriate size 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,</b></p>	<p>The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels directed the water to the rain water collection pond. All sediments and silts are settling at the bottom of the pond and only cleared water is letting out. The water from the pond can be used for splashing of water on roads to arrest the dust. The project proponent indenting to create de siltation chambers along with catch</p>

	<b>green belt development etc., The drains shall be regularly de silted particularly after monsoon and maintained properly.</b>	drains.
<b>45</b>	<b>Effective safeguard measures such as regular water sprinkling shall be carries 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 an un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.</b>	The project proponent is regularly checking the pollution of all vehicles in the site and spraying water in critical areas prone to air pollution with the help of vehicle. The project proponent installed sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The ambient air quality is being monitored with the help of an approved laboratory.
<b>46</b>	<b>Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer</b>	The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying will be properly maintained.

	<b>point should be provided and properly maintained.</b>	
<b>47</b>	<b>Measures should be taken for control of noise levels below 85 dBA in the work environment.</b>	The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go beyond 85dBA. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.
<b>48</b>	<b>A separate Environmental Management Cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the Organization.</b>	To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent will constitute an Environment Monitoring Cell with Mr. Peter T V as the head of the Cell.
<b>49</b>	<b>The funds earmarked for environmental protection and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State</b>	The project proponent could execute many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent will open an account for keeping the funds earmarked for environmental protection and CSR.

	<b>Environment Impact assessment authority (SEIAA) office.</b>	
<b>50</b>	<b>The Regional Office of MoEF &amp;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.</b>	The project proponent will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.
<b>51</b>	<b>Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green tribunal Act, 2010.</b>	The Condition is noted for compliance.
<b>52</b>	<b>Concealing the factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may</b>	The Condition is noted for compliance.

	<b>result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</b>	
<b>53</b>	<b>The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any 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.</b>	The project proponent is willing to implement the conditions stipulated in the Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment.
<b>54</b>	<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.</b>	The project proponent will give priority to the conditions stipulated in the Environment clearance Order for its execution.




55	<b>This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.</b>	It is noted that this Environmental clearance order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.
56	<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.</b>	There is no pending litigation related to the land or project in any court of law.
57	<b>The mining operation shall be restricted to above ground water table and is should not intersect ground water table.</b>	The project proponent will restrict its mining operations above the ground water table.
58	<b>All vehicle used for transportation and within the mine shall have "PUC" certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.</b>	As part of reduce air pollution, the project proponent is monitoring the pollution level of all vehicles playing in the project site. This monitoring conducts only in authorized pollution testing center.
59	<b>Project proponent should</b>	At present, the need of prior approval is

	<p><b>obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.</b></p>	<p>not necessary to draw ground water and surface water for the project.</p>
<p><b>60</b></p>	<p><b>Regular monitoring of flow rates and water quality upstream and down streams of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.</b></p>	<p>There is no stream or springs flowing in and around to the mine lease area. The project proponent will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.</p>
<p><b>61</b></p>	<p><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.</b></p>	<p>The project proponent has conducted occupational health surveillance program for the labours working in mining area in association with Primary Health center.</p>

# ANNEXURE

**Annexure No.1**

FILE NO : PCB/WND/OCMMS/Jan/18  
Date of issue : 30/01/2018



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974  
The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

**As per Application No. :6654279**  
**Dated:19-01-2018**

**TO**

**M/s WAYANAD GRANITE QUARRY UNIT**

**M M Thomas,**  
**Madathinamattathi(House),**  
**Kannavam(PO),**  
**Chittariparamba,**  
**Kannur, Pin-670650**

**Consent No. :PCB/WND/ICO/333/2018**  
**Valid Upto :28/12/2022**

Page1

**1. GENERAL**

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	<b>VALIDITY</b>	28/12/2022
2	Name and Address of the establishment	WAYANAD GRANITE QUARRY UNIT PINANGODE(PO), VENGAPALLY, KALPETTA 673121
3	Communication	Telephone :0-9048880990 Fax :- E-mail:wayanadgranites@gmail.com
4	Occupier Details	M M Thomas, Madathinamattathi(House), Kannavam(PO), Chittariparamba, Kannur, Pin-670650
5	Local Body	Vengapally
6	Survey Number	371/1,371/2/1,372/1,372/4,372/2,373/1
7	Village	Vengapally
8	Taluk	VAITHIRI
9	District	WAYANAD
10	Capital Investment(Rs in Lakhs)	65 Lakh
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	Rs.15000/-
	Total Fee remitted(Rs)	Rs.90000/-
14	<b>RAW MATERIAL</b>	<b>PRODUCTS</b>
		area of quarrying-8.028 Acre
15	Total Power Required (HP)	Nil

**2. CONDITIONS AS PER**

**The Water(Prevention and Control of Pollution)Act, 1974**

- 2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.
- 2.2 Water consumption: 500 L/day
- 2.3 Effluent generation: 400 L/day
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

SI.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

- 2.5 Mode of disposal of treated effluent:

### 3. CONDITIONS AS PER The Air(Prevention and Control of Pollution)Act, 1981

- 3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

- 3.2 Emission characteristics shall not exceed the following:


SI.No.	Parameter	Limiting Standards (mg/Nm3)

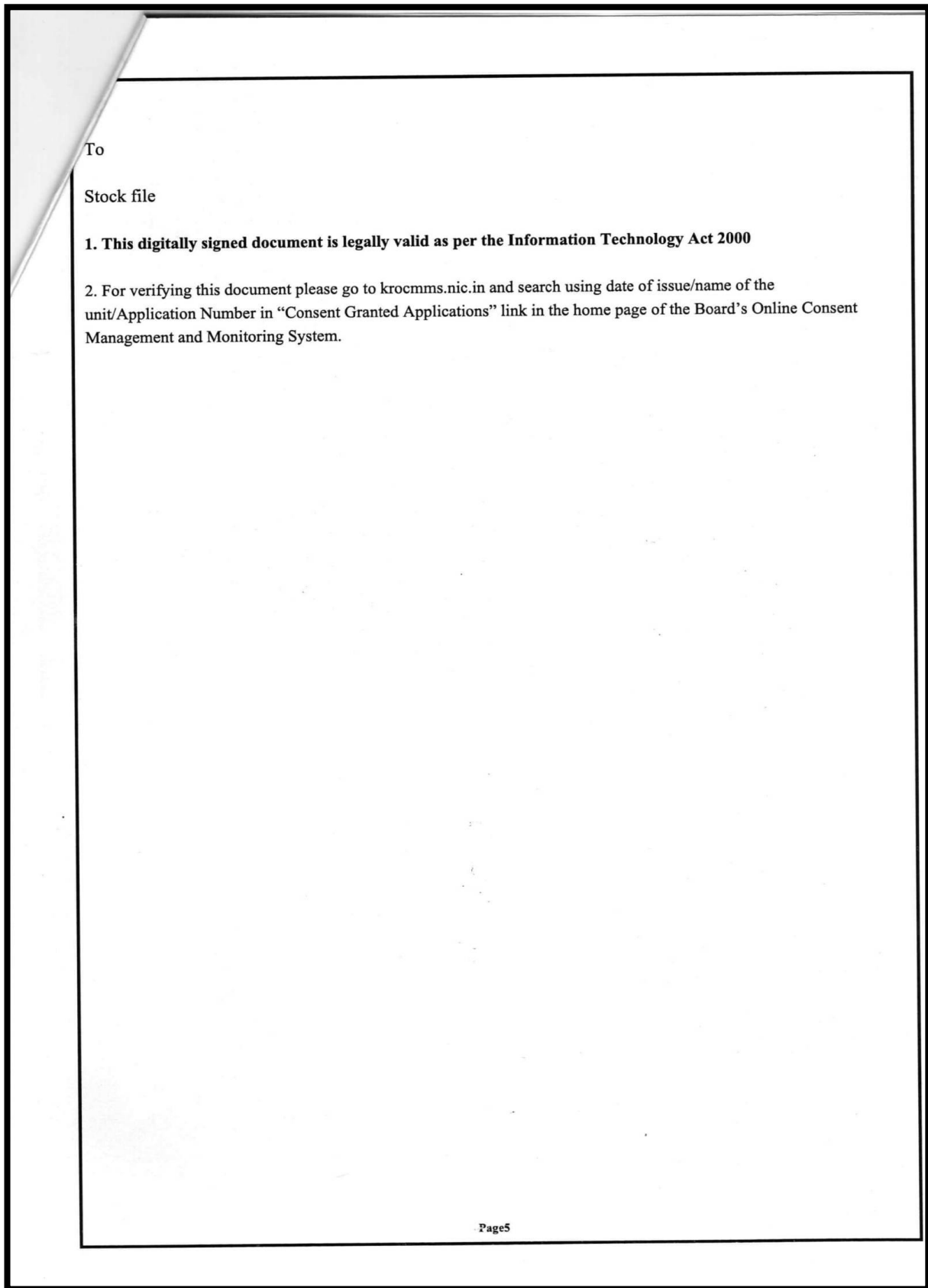
### 4. CONDITIONS AS PER The Environment (Protection) Act, 1986.

- 4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.
- 4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001
- 4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.
- 4.3.1 Activities for which Authorisation is granted

<b>Collection</b>		<b>transport</b>	
<b>Reception</b>		<b>Storage</b>	
<b>Treatment</b>		<b>Reprocessing/Disposal</b>	

- 4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

No.	Hazardous Waste	Schedule Category	Quantity Tonne/year
<b>Mode of</b>			
<b>Storage</b>		<b>Disposal</b>	
4.4	E-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.		
<b>5. SPECIFIC CONDITIONS</b>			
<p>1. This consent is valid only for a period mentioned above or till all other statutory clearances and NOC from the District Collector are valid, whichever is lesser.</p> <p>2. Any adverse order/ judgment passed by the Hon'ble Supreme Court, Hon'ble High Court, Hon'ble National Green Tribunal in the matter pertaining to rocks quarrying in Kerala state, will make this consent invalid.</p> <p>3. Any adverse Government order passed in the matter of rock quarrying by the Central Government, State Government &amp; Pollution Control Board, will make this consent invalid.</p> <p>4. This Consent to Operate is issued only in accordance with norms and parameters of the Board as per the Air (Prevention &amp; Control of Pollution) Act, 1981 and is not a permit / license to carry out mining operations/quarrying operation. Necessary permits / licenses for mining operation shall be obtained from competent authorities before starting operations</p> <p>5. If required the consentee shall produce Environmental Clearance (EC) to the appropriate authorities.</p> <p>6. It is the responsibility of occupier to ensure that quarrying activities are restricted to a distance more than 50 m from the nearby residences and public roads having vehicular traffic.</p> <p>7. The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjacent area.</p> <p>8. The PM10 in the ambient air at the boundary shall not exceed 100 microgram /m<sup>3</sup>.</p> <p>9. The PM2.5 in the ambient air at the boundary shall not exceed 600 microgram /m<sup>3</sup>.</p> <p>10. proper fencing shall be maintained around the quarrying area.</p> <p>11. Occupier should ensure that quarrying activities are carried out only in the specific area shown in the attached drawing.</p>			
DATE :30/01/2018		SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER, WAYANAD	
			
Page4			



To

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Copy of Consent form PCB



**Annexure No.2**

Validity expires on 28/12/2022

सत्यमेव जयते

**Proceedings of the State Environment Impact Assessment Authority Kerala**

Present: Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and  
Sri. P.H.Kurian, I.A.S., Member Secretary.

Sub: SEIAA- Environmental Clearance for the quarry project of Mr.M.M Thomas, Managing Partner, M/s Wayanad Granites in Sy. Nos. 371/1, 371/2/1, 372/1, 372/4, 372/2, & 373/1 of Vengappally Village & Panchayat, Vythiri Taluk, Wayanad District, Kerala - granted – Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 1132/EC/SEIAA/2017

Dated, Thiruvananthapuram 29/12/2017

- Ref:
1. Application dated 28.02.2017 from Mr.M.M.Thomas, Managing Partner, M/s.Wayanad Granites, Pinangode Post, Kalpetta, Wayanad District - 673 121
  2. Minutes of the 76<sup>th</sup> meeting of SEAC held on 25<sup>th</sup> & 26<sup>th</sup> July, 2017.
  3. Minutes of the 81<sup>st</sup> meeting of SEAC held on 30<sup>th</sup> & 31<sup>st</sup> October, 2017.
  4. Minutes of the 76<sup>th</sup> meeting of SEIAA held on 16<sup>th</sup> November 2017.
  5. Affidavit received on 4/12/2017 from Mr.M.M.Thomas, Managing Partner of M/s Wayanad Granites, Pinangode Post, Kalpetta, Wayanad – 673 121.

**ENVIRONMENTAL CLEARANCE NO. 109 /2017**


Mr.M.M Thomas, Managing Partner, M/s Wayanad Granites, Pinangode Post, Kalpetta, Wayanad, Kerala- 673 121 vide his application dated 28.02.2017 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Survey Nos. 371/1, 371/2/1, 372/1, 372/4, 372/2, & 373/1, at Vengappally Village, Vythiri Taluk, Wayanad District, Kerala for an area of 5.1625 Ha. The project comes under Category B, Activity I(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. The project comes under Category B2 as per Notification

Page 1 of 15

No.S.O.141 (E) dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Details of the project as furnished by the applicant are as follows:

**BASIC INFORMATION OF QUARRY**  
**( To be filled in by the Project Proponent)**  
**PART A**

<b>PROJECT DETAILS</b>	
File No.	1132/EC/SEIAA/KL/2017
Name /Title of the project	Building Stone Quarry (Minor Mineral) project of M/s Wayanad Granites
Name and address of project proponent.	<b>Mr. M.M. Thomas, Managing Partner,</b> <b>M/s Wayanad Granites,</b> Pinangode Post, Kalpetta, Wayanad, Kerala-673121.  E-mail :- wayanadgranites@gmail.com
Owner of the land	<b>Private own land</b>
Survey No. District/ Taluk/ and Village etc.	Survey Nos. 371/1, 371/2/1, 372/1, 372/4, 372/2, & 373/1 of Vengappally Village & Panchayat, Vythiri Taluk, Wayanad District, Kerala
Category/Sub Category and Schedule	Category B / B2 & Schedule 1(a)
Details of period of lease or permit with number including the beginning and expiry date of lease /permit period <b>(Copy to be attached)</b>	Quarry not working 
Present Status of the project	Quarry not working
Date & Year of starting the work of the quarry project.	Quarry not working
Whether the	Quarry not working

quarry is working at present or not ?					
If stopped working since when?	Quarry not working				
Date of submission of Application	28/2/2017				
Brief description of the project.	<p>The building Stone Quarry (Minor Mineral) mining project of M/s Wayanad Granites is situated at Survey Nos. 371/1, 371/2/1, 372/1, 372/4, 372/2, &amp; 373/1 of Vengappally Village &amp; Panchayat, Vythiri Taluk, Wayanad District, Kerala in area of 5.1625 hectares.</p> <p>The land for the proposed quarry is a private owned land and the land is possessed in the name of M/s Wayanad Granites. The targeted production of mine will be 1,00,000 MTA. The estimated project cost will be about Rs. 3.35 Crores. The expected life of mine estimated will be about 11 years. The mining operation will be carried out by opencast semi-mechanized method as per the approved Mining Plan.</p>				
GPS Co-ordinate	<p>Latitude (N) = 11°36'51.91"N to 11°37'01.95"N</p> <p>Longitude(E) = 76°02'21.06"E to 76°02'31.71"E</p>				
Details of Authorized Signatory and address for correspondence	<p><b>Mr. M.M. Thomas, Managing Partner,</b>  <b>M/s Wayanad Granites,</b>  Pinangode Post, Kalpetta, Wayanad,  Kerala-673 121.  E-mail :- wayanadgranites@gmail.com</p>				
<b>LAND DETAILS</b>					
Extent of area in hectares	5.1625 hectare				
Is the property forest land/ Govt. land/own land/patta land	Private own land				
Quantity of top soil/over burden produced and managed	<p>A total quantity of about 21,262 cu. m. of topsoil is proposed to be removed during the mining operations. The topsoil excavated from the quarry will be dumped / stacked separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation as part of eco-restoration.</p> <p>About 42,525 cu. m. of overburden (OB) will be generated throughout the mine life. This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.</p>				
Latitude and Longitude	<table border="1"> <tr> <td><b>Latitude (N)</b></td> <td><b>11°36'51.91"N to 11°37'01.95"N</b></td> </tr> <tr> <td><b>Longitude (E)</b></td> <td><b>76°02'21.06"E to 76°02'31.71"E</b></td> </tr> </table>	<b>Latitude (N)</b>	<b>11°36'51.91"N to 11°37'01.95"N</b>	<b>Longitude (E)</b>	<b>76°02'21.06"E to 76°02'31.71"E</b>
<b>Latitude (N)</b>	<b>11°36'51.91"N to 11°37'01.95"N</b>				
<b>Longitude (E)</b>	<b>76°02'21.06"E to 76°02'31.71"E</b>				
Topography of	Part of the proposed land is exposed rock and the remaining land is covered				

land and elevation	with native trees, shrubs, herbs, grass, climbers, bushes etc. The topography of the lease area is hilly. As the proposed area is hill rock, the drainage of the lease area is towards West. No habitants are located in the lease area.
Slope analysis	The slope is towards West side.
Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	Due care will be taken to provide channel all around the foot of the hill to collect run off and also to avoid soil erosion.
Access road to the site width and condition	7m wide road
Will there be any adverse impact on the aesthetics of the proposal site	No, the land used will be fully reclaimed and rehabilitated by backfilling the pond and plantation. Plantation and afforestation will add to the improvement in environment and aesthetic beauty of the area.
<b>MINING DETAILS</b>	
Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 800 m to 760m MSL in conceptual phase.
Life of mine proposed.	About 11 years
Underground mining if any proposed	No underground mining. The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan.
Method of Mining	The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan.
Distance from the adjacent quarry	There is no quarry in operation within 500m radius.
Cluster condition if any	No cluster condition
Has "No cluster certificate" submitted?	Yes, cluster certificate is already submitted with Environment Clearance Application.
Distance from nearby habitation	About 102m towards North side
Distance from nearby forest, if applicable	Chembra Forest about 12 km, South
Distance from protected area, Wildlife	Malabar Wildlife Sanctuary about 8 km, SW

Sanctuary, National Park etc.	
Distance from nearby streams / rivers / National Highway and Roads	Kabini River about 4 km, W Puzhamudi about 2.50 km, E Banassur Dam about 12 km NW
Is ESA applicable? If so distance from ESA limit	Not in ESA
Has approved mining plan, prepared by RQP submitted?	Yes, the approved mining plan prepared by RQP is already submitted with E.C. Application.
Capacity of production in TPA	1,00,000 MTA
Details of mining process	The mining will be done by open cast semi-mechanized method of mining. The bench height and width will be maintained 5 m. Excavated material is transported to the crusher unit for further processing. The ultimate depth of the mine workings is estimated to reach up to 760m MSL.
<b>DETAILS OF PROJECT COST</b>	
Land cost	<b>Rs. 3.35 Crore ( All inclusive )</b>
Plant and Machinery	<b>Rs. 3.35 Crore ( All inclusive )</b>
Total Cost	<b>Rs. 3.35 Crore ( All inclusive )</b>
Financial Statement including funding source and details of insurance etc.	<b>Project Cost = Rs. 3.35 Crore</b> <b>Insurance = Insurance to the quarry workers would provide through insurance company.</b> <b>Funding = Own source &amp; bank loan</b>
Environment Management Plan	<p>Air Pollution Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> <li>• Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust.</li> <li>• To avoid the dust generation from the drilling operations, wet drilling method will be adopted.</li> <li>• Drill machines will be equipped with dust collectors.</li> <li>• Use of appropriate explosives for blasting and avoiding overcharging of blast holes.</li> </ul>

	<ul style="list-style-type: none"> <li>Controlled blasting techniques will be adopted.</li> <li>Watering of haul road and other road at regular intervals.</li> <li>Provision of dust filters/ mask to workers working at highly dust prone and affected areas.</li> <li>Provision of green belt all along the periphery of the lease area.</li> <li>Periodical monitoring of ambient air quality in and around the lease area.</li> </ul> <p><b>The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</b></p> <ul style="list-style-type: none"> <li>In case of long transportation the trucks after loading will be covered with tarpaulin sheets.</li> <li>Speed of the vehicles will be maintained within the prescribed limits.</li> <li>Trucks will not be over loaded and will be maintained to the body level</li> </ul>
Water Pollution	Provision of storm water collection pond with an appropriate capacity. The water requirement for sprinkling on sources of dust emission, on roads, landscaping etc. Can be met from the stored rainwater in the pond.
Noise	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are to be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> <li>Proper maintenance of machinery, equipments and improvement on design of machines.</li> <li>Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.</li> <li>Creation of wide green belt of dense foliage between mine areas and residential colonies.</li> <li>Proper training to personnel to create awareness about adverse noise level effects.</li> <li>Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.</li> </ul>
Solid Waste Management	<p><b>Topsoil Management</b></p> <p>The topsoil excavated from the quarry will be dumped / stacked separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation as part of eco-restoration. Precautions will be taken to limit the height of the</p>

	<p>topsoil dump / stacked to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.</p> <p style="text-align: center;"><b>Overburden Management</b></p> <p>This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.</p>
Eco-restoration	The year wise programme of eco-restoration for life of mine will be made and about 4,200 plants will be planted in an area of 4.2757 ha.
Whether Environment Management Plan or Eco restoration Plan satisfactory?	Detailed Environment Management Plan is already submitted with E.C. Application.
Does it suggest mitigation measures for each activity	Detailed Environment Management Plan is already submitted with E.C. Application.
Is Pre-Feasibility Report (PFR) satisfactory	Detailed Pre-Feasibility Report (PFR) is already submitted with E.C. Application.
Does it need public hearing	Not Applicable
Details of litigation and Court verdict if any	No litigation pending
Details of public complaint, if any	None
Details of statutory sanction required	<p>The following Govt. Orders / Policies are to be followed:-</p> <ul style="list-style-type: none"> <li>➤ Kerala Minor Mineral Concession Rules, 2015.</li> <li>➤ Mines Act, 1952</li> <li>➤ Explosive Rules, 2008</li> <li>➤ Kerala Panchayat Raj Act, 1994</li> <li>➤ Environment Protection Act, 1986</li> <li>➤ EIA Notification, 2006 / 2009</li> <li>➤ The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.</li> </ul>

If CRZ recommendation applicable?	Not Applicable
<b>PART B</b>	
<b>ENVIRONMENT IMPACT ASSESSMENT AND MITIGATION MEASURES</b>	
Details of water requirement per day in KLD	The total water requirement is about 15 KLD in which 1 KLD is for domestic purpose which would be sourced from open well, 12 KLD for dust suppression in mine with ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
Water source/sources.	1 KLD is for domestic purpose which would be sourced from open well, 12 KLD for dust suppression in mine with ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
Expected water use per day in KLD.	15 KLD
Details of water requirements met from water harvesting.	12 KLD for dust suppression in mine with ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
What are the impact of the proposal on the ground water?	No significant impact envisaged on ground water due to the mining project.
How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	No STP proposed for treatment of waste water.
What is the incremental pollution load from waste water generated from the proposed activities?	The sewage to a tune of 0.80 KLD generated from the mine office will be diverted to the septic tank followed by soak pit.
How is the storm water from within the site managed?	The run-off from the lease area will be suitably collected through channels and will be stored in storm water pond for further utilization in Mine unit. However, all measures will be taken to not to disturb the natural drainage system of the surrounding area.
<b>IMPACT ON BIODIVERSITY AND ECO RESTORATION PROGRAMMES</b>	
Will the project involve extensive	Due to the mining activities, there will be loss of some native species and vegetation. However, some of these species will be planted at the end use for



clearing or modification of vegetation (Provide details)	eco-restoration.
What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/landscaping)	The year wise programme of eco-restoration for life of mine will be made and about 4,200 plants will be planted in an area of 4.2757 ha.
Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures ? Presence of any endangered species or red listed category (in detail)	Not applicable  No endangered species found at site
<b>IMPACT ON AIR ENVIRONMENT</b>	
What are the mitigation measures on generation of dust, smoke and air quality	<p>Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> <li>• Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust.</li> <li>• To avoid the dust generation from the drilling operations, wet drilling method will be adopted.</li> <li>• Drill machines will be equipped with dust collectors.</li> <li>• Use of appropriate explosives for blasting and avoiding overcharging of blast holes.</li> <li>• Controlled blasting techniques will be adopted.</li> <li>• Watering of haul road and other road at regular intervals.</li> <li>• Provision of dust filters/ mask to workers working at highly dust prone and affected areas.</li> <li>• Provision of green belt all along the periphery of the lease area.</li> <li>• Periodical monitoring of ambient air quality in and around the lease area.</li> </ul>
Details of internal traffic	<b>The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</b>

management of the site.	<ul style="list-style-type: none"> <li>• In case of long transportation the trucks after loading will be covered with tarpaulin sheets.</li> <li>• Speed of the vehicles will be maintained within the prescribed limits.</li> <li>• Trucks will not be over loaded and will be maintained to the body level</li> </ul>
Details of noise from traffic, machines and vibrator and mitigation measures	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are to be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> <li>• Proper maintenance of machinery, equipments and improvement on design of machines.</li> <li>• Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.</li> <li>• Creation of wide green belt of dense foliage between mine areas and residential colonies.</li> <li>• Proper training to personnel to create awareness about adverse noise level effects.</li> <li>• Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.</li> </ul>
Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures	No DG Set proposed
Air quality monitoring in detail	The ambient air quality monitoring of the project site was carried out and the copy of report is already submitted with E.C. Application.
<b>ENERGY CONSERVATION</b>	
Details of power requirement and source of supply.	The total power requirement will be 75 kW, which will be drawn from diesel engine. Fuel Quantity <del>16 to 20</del> 16 to 20 lt/ hr.
Details of renewable energy (non conventional) used.	The total power requirement will be 75 kW, which will be drawn from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.
<b>RISK MANAGEMENT</b>	
Are there sufficient measures proposed for risk hazards in case of emergency such	Detailed Environment Management Plan is already submitted with E.C. Application.

as accident at the site?	
Are proposals for fencing around the quarry satisfactory?	Barbed wire fencing will be done all around the quarry site.
Storage of explosives /hazardous substance in detail	The stone quarry mine will result in increase in frequency of blasting for mining the mineral. However, controlled blasting with optimum charge of holes will be carried out to loosen the rock. Explosion hazards are envisaged due to mishandling of explosives. Explosives will be handled with utmost care in compliance of conditions imposed by Chief Controller of Explosive & Metalliferous Mines Regulation, 1961.
Facility for solid waste management	Top soil and over burden generated from the site will be stored separately on earmarked place and will be used for eco-restoration and internal road development.
<b>SOCIO ECONOMIC IMPACTS</b>	
Will the project cause adverse effects on local communities to sacred sites or other cultural values. What are the safe guards proposed?	The proposed project will directly / indirectly develop the area by providing employment opportunities. With the proposed development in and around the area there will be supporting facilities/ infrastructure eventually leading to the development of the area.
Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	Part of the proposed land is rocky area with mining activities and there is no vegetation in that area. The remaining land in the proposed land is mostly covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The topography of the lease area is hilly terrain. The highest elevation of the lease area is 800 m MSL and lowest is 70m MSL. As the proposed area is hill rock, the drainage of lease area is towards West.
Details of CSR commitment	The project proponent set apart an amount of Rs. 7 Lakhs as recurring expenses and Rs. 8 Lakhs as Non recurring expenses for CSR activities for the welfare of local community in consultation with the Grama Panchayat.
What are the projects benefits in terms of employment potential?	Due to the mining activity and due to the attached ancillary unit, there will be workers attracted to the project area. It is proposed to employ 16 persons in the project.
<b>PART C</b>	

Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	<b>M/s Environmental Engineers &amp; Consultants Pvt. Ltd.</b> <b>(NABET Accredited Consultant Organization)</b> <i>Head Office :-</i> A1-198, Janak Puri, New Delhi.  <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.
<b>SUMMARY AND CONCLUSION</b>	
Overall justification for implementation of the project.	It is predicted that socio-economic impact due to this project will positively increase the chance of more employment opportunities for local inhabitants. There are no Resettlement and Rehabilitation issues involved in this project. The project infrastructures will be of use to people of the area. The revenue of the State Govt. will be definitely increasing due to the proposed activity. The entire project area is devoid of any endangered flora and fauna. <b>It is proposed to reclaim the land and develop green cover for eco-restoration with native species to a maximum possible extent. Additionally, an area is earmarked outside the proposed mining area for compensatory mass plantation. Also, a storm water pond is proposed outside the mining area for storage of rain water and for its subsequent use so as to conserve fresh water consumption.</b> Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely.
Explanation of how adverse impact have been mitigated.	Detailed Pre-Feasibility Report (PFR) with Environment Management Plan (EMP) is already submitted with E.C. Application.

2. The proposal was placed in the 76<sup>th</sup> meeting of SEAC held on 25<sup>th</sup> & 26<sup>th</sup> July, 2017. The Committee appraised the proposal based on the Mining Plan, Pre-feasibility Report and all other documents submitted along with Form 1.

The proponent agreed to set apart Rs.10 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat. The Committee decided to **defer the item for field inspection.**

Site visit was conducted on 21.10.2017 by Subcommittee consisting of Dr.Khaleel Chovva & Dr.E.A.Jayson and submitted report

*The land for the quarry project is private owned land and is possessed in the name of M/s Wayanad Granites. The targeted production of mine will be 1,00,000 MTA. The estimated project cost is about Rs. 3.35 Crores. The expected life of mine estimated will be about 11 years. The mining operation will be carried out by opencast semi-mechanized method as per the approved Mining Plan.*

The proponent and partners were present when the team visited the quarry. The quarry is not working presently. Malabar Wildlife Sanctuary is about 8 km, SW and nearest town Kalpetta is about 5km. This quarry is working in partnership mode. Kabani River is about 4 km from the site. There are four quarries (not working) i.e., Mr. Thomas O.D., Mr. Joseph P.M. & M/s Krishnagiri Stone Crusher (2 quarries) were working with short term permit located within 500m radius and currently there is no working quarry near the site.

No important eco sensitive areas or forests is present within 100m. On field visit, it is suggested that, it is necessary to take precaution to avoid effluent waters entering the nearby areas. This calls for establishing scientifically laid garland drains and settling tanks for settlement of debris. The presently provided pits (two nos.) has to be developed into two settling ponds with sufficient depth with rubble lined side walls. Only filtered water after sedimentation be allowed to flow out of the quarry. The nearby house is located at a distance of 102 meters. Quarters and canteen facility has to be created before the functioning of the quarry. The boundary pillars has to be painted with yellow colour and lat.long. marked on the pillars. Tree planting as per the mining plan to be strictly followed. The application may be favourably considered.

3. The proposal was placed in the 81<sup>st</sup> meeting of SEAC held on 30<sup>th</sup> & 31<sup>st</sup> October, 2017. The proposal was appraised by SEAC after considering Form I, Form IA, Conceptual plan, field visit report and all other documents and details provided by the proponent and decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.

1. *If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area*

4. The proposal was considered in the 76<sup>th</sup> meeting of SEIAA held on 16<sup>th</sup> November 2017. The Authority decided to issue EC subject to the submission of the copy of proof for having applied for Wild Life Clearance, with general conditions and the following specific conditions.

1. *If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area*
2. *All condition suggested by the field inspection report as noted above should be strictly implemented before starting mining.*

The proponent should set apart Rs.10 lakh per annum (recurring) for CSR activities for the welfare of the local community to be implemented in consultation with the local

Panchayat and the details should be forwarded to SEIAA. A notarised affidavit for the commitment of CSR activities and also agreeing to all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted an affidavit vide reference 5<sup>th</sup> cited, satisfying all the above conditions.

5. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed building stone quarry project of Mr.M.M Thomas, Managing Partner, M/s Wayanad Granites, Pinangode Post, Kalpetta, Wayanad, Kerala- 673 121 in Sy. Nos. 371/1, 371/2/1, 372/1, 372/4, 372/2, & 373/1 of Vengappally Village & Panchayat, Vythiri Taluk, Wayanad District, Kerala for an area of 5.1625 hectares subject to the specific conditions as recommended by SEIAA in para 4<sup>th</sup> above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form I, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 61), appended hereto will be applicable and have to be strictly adhered to.
6. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and the undertakings in Chapter 10 (Mining), Chapter 10.c (Blasting), Chapter 19(Progressive Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.
7. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.
8. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.
  - i. 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.
  - ii. Instances of violation if any shall be reported to the District Collector, Wayanad to take legal action under the Environment (Protection) Act 1986.

- iii. The given address for correspondence with the authorised signatory of the project is Mr. M.M.Thomas, Managing Partner, M/s.Wayanad Granites, Pinangode Post, Kalpetta, Wayanad – 673 121.

Sd/-  
P.H.Kurian I.A.S,  
Member Secretary (SEIAA)

To,

✓ Mr. M.M.Thomas,  
Managing Partner,  
M/s.Wayanad Granites,  
Pinangode Post,  
Kalpetta, Wayanad – 673 121.

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. The Director, Mining & Geology, Thiruvananthapuram -4.
4. The Member Secretary, Kerala State Pollution Control Board
5. The District Collector, Wayanad
6. The District Geologist, Wayanad
7. The Tahsildhar, Vythiri Taluk.
8. Chairman, SEIAA.
9. Website.
10. S/f
11. O/c



Forwarded /By Order

Administrator(SEIAA)

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY  
KERALA


GENERAL CONDITIONS (for mining projects)

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 indicating 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 guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the 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 5 m, and width should not be less than 5 m, if there is no mention is the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV 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 as specified under relevant Rules/Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.



29. 100 m buffer distance should be maintained from forest boundaries.
30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. 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.
32. 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 by this Authority, for which the proponents shall apply and get the approval of this Authority.
33. 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 safeguard measures in a time bound and satisfactory manner.
34. The stipulations 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, the 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 the 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 State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at [www.seiaakerala.org](http://www.seiaakerala.org). 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 concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body and also to the Local 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 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 State Environment Impact Assessment Authority (SEIAA) office.
38. The details of Environmental Clearance 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.
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 SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, 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 topsoil 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<sup>o</sup>. 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 of 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 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.
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 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 Central Pollution 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 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.
49. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) 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 Environmental Clearance shall lie with the National Green Tribunal, if preferred, within 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 may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
53. 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.
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. This order is valid for a period of 5 years or the expiry date 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 intersect 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 SEIAA.
61. 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.

  
For Member Secretary, SEIAA Kerala

Copy of Environmental Clearance Order

## Annexure No.3



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, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

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

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

संख्या (No.): E/SE/KL/22/234(E120930)

दिनांक (Date): 24/05/2019

सेवा में | To,

29 JUL 2019

Shri M.M.Thomas,

Mg. Partner, Wayanad Granites, Pinangode P.O., Town/Village - Kalpatta  
District-WAYANAD, State-Kerala, Pincode - 673121

विषय : Survey No.373/1, ग्राम Vengappally, Vythiri, जिला WAYANAD, राज्य Kerala में मेसर्स Shri M.M.Thomas द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/234(E120930) के संशोधन संदर्भ में।  
(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:373/1, Vengappally, Vythiri, Dist. WAYANAD, Kerala -Licence No.: E/SE/KL/22/234(E120930) granted in Form LE-3 of Explosives Rules, 2008 -  
(Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 23/05/2019 का संदर्भ ग्रहण करें।  
Please refer to your letter no. Nil dated 23/05/2019.

अनुज्ञप्ति संख्या E/SE/KL/22/234(E120930) INTIMATION REGARDING QUARRYING OPERATIONS AS PER THE QUARRYING LEASE IN FORM H WITH THE GEOLOGIST, DISTRICT OFFICE, DEPARTMENT OF MINING & GEOLOGY, WAYANAD VALID UP TO 19/03/2029 IN AT SY.NOS.371/1,371/2/1,372/1,372/4,372/2,373/1 AT VENGAPPALLY VILLAGE, VYTHIRI TALUK WAYANAD IS ACKNOWLEDGED HERE WITH THE FOLLOWING CONDITIONS 1. NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION.2. LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE.3. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY.4. OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.5. APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. 6. ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED.6.DAILY PASS FOR USE OF EXPLOSIVES (RE-13)SHALL BE GENERATED ONLINE. 7. EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO BLASTING SITE.8. VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. 9. EXPLOSIVE VAN IS PERMITTED FOR OWN USE ONLY.10 .NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE TAKEN AS PER THE RULES. के संदर्भ में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SE/KL/22/234(E120930) is forwarded herewith duly amended in respect of followings ;

INTIMATION REGARDING QUARRYING OPERATIONS AS PER THE QUARRYING LEASE IN FORM II WITH THE GEOLOGIST, DISTRICT OFFICE, DEPARTMENT OF MINING & GEOLOGY, WAYANAD VALID UP TO 19/03/2029 IN AT SY.NOS.371/1,371/2/1,372/1,372/4,372/2,373/1 AT VENGAPPALLY VILLAGE, VYTHIRI TALUK WAYANAD IS ACKNOWLEDGED HERE WITH THE FOLLOWING CONDITIONS 1. NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION.2. LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE.3. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED,

NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY.4. OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.5. APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. 6. ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED.6.DAILY PASS FOR USE OF EXPLOSIVES (RE-13)SHALL BE GENERATED ONLINE. 7. EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO BLASTING SITE.8. VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. 9. EXPLOSIVE VAN IS PERMITTED FOR OWN USE ONLY.10 .NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE TAKEN AS PER THE RULES..

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।

The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	100	Kg.
2	Safety Fuse	6	1	0	3000	Mtrs
3	Ordinary Detonator	6	3	0	5000	Nos.
4	Electric Detonators	6	3	0	2500	Nos.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 15 गुना

Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 15 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2024 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2024.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।

For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R.Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

उप मुख्य विस्फोटक नियंत्रक  
Deputy Chief Controller  
कोच्ची | Ernakulam  
एरणाकुलम Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. District Magistrate, WAYANAD, Kerala with reference to his Noc No: DCWYD/9193/2018-M1 Dated: 07/03/2019
2. Superintendent of Police, WAYANAD, Kerala.

उप मुख्य विस्फोटक नियंत्रक | Deputy 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>)

**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/22/234(E120930)

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



1. Licence is hereby granted to

Shri M.M.Thomas (अधिभोगी / Occupier : Shri M.M.Thomas), Mg. Partner, Wayanad Granites, Pinangode P.O., Town/Village - Kalpatta, District-WAYANAD, State-Kerala, Pincode - 673121

को अनुज्ञप्ति अनुदत्त की जाती है।

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

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

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

Licence is valid only for the following purpose.

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	100 Kg.
2.	Safety Fuse	6,1	0	3000 Mtrs
3.	Ordinary Detonator	6,3	0	5000 Nos.
4.	Electric Detonators	6,3	0	2500 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)] :

15 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/22/234  
(E120930)  
दिनांक (Dated) 24/05/2019

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

Survey No. 373/1, ग्राम (Town/Village) : Vengappally, Vythiri

जिला (District)  
दूरभाष (Phone)WAYANAD  
9747100956राज्य (State)  
ई. मेल (E-Mail)

Kerala

पुलिस थाना (Police Station) : Kalpatta  
पिनकोड (Pincode) : 673121  
फैक्स (Fax)

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

: Portable Magazines

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.

- 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.
- अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- 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 - 22/04/2019

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives

Ernakulam

उप मुख्य विस्फोटक नियंत्रक  
Deputy Chief Controller of Explosives  
एरणाकुलम Ernakulam

**Amendments :**


- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 24/05/2019  
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
------------------------------------	------------------------------------	--------------------------------------------------------------------------------------------

**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.

Copy of Explosives – license

Annexure No.4




നമ്പർ: 91/2020-2021/B3/908/2020 തീയതി: 30/04/2020

**വെങ്ങപ്പള്ളി ഗ്രാമപഞ്ചായത്ത്**  
**പിണങ്ങോട് പി.ഒ., വയനാട് (ജില്ല)**  
 പിൻ: 673122, ഫോൺ: 4936202481, ഇ-മെയിൽ: vengappalligp@gmail.com

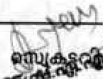
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**വ്യവസായം, വാണിജ്യം, സംരക്ഷകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്**  
**(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FTE & OS ലൈസൻസ് ചട്ടങ്ങൾ 1996)**

ലൈസൻസിയുടെ പേര്	എം എം തോമസ്		
ലൈസൻസിയുടെ മേൽവിലാസം	മാനേജിംഗ് പാർട്ണർ, വയനാട് ഗ്രാനൈറ്റ്സ്, പിണങ്ങോട് പി ഒ		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	വയനാട് ഗ്രാനൈറ്റ്സ്, പിണങ്ങോട്		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ക്വാറി നടത്തുന്നതിന്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	IX/0		
ലൈസൻസ് കാലാവധി	30/04/2020 മുതൽ	31/03/2021 വരെ	
ലൈസൻസ് ഫീസ്	തുക	രസീത് നമ്പർ	തീയതി
	15000 /- രൂപ	120010100011	27/04/2020
മോട്ടോർ ഫീസ്			
തൊഴിൽ നികുതി	2500 /- രൂപ	120010100012	27/04/2020
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം )	മലിനീകരണ നിയന്ത്രണബോർഡിന്റെ നിരാക്ഷേപസാക്ഷ്യപത്രം, 1. മൈനിംഗ് ആന്റ് ജിയോളജി വകുപ്പിന്റെ അനുമതി പത്രം, ഫയർ എൻ ഒ സി 2. എക്സ്പ്ലോസീവ് ലൈസൻസ്, ബ്ലാസ്റ്റ്മാൻ സർട്ടിഫിക്കറ്റ്, എൻവയോൺമെന്റൽ ക്ലിയറൻസ്		



മുദ്ര

  
 വെങ്ങപ്പള്ളി ഗ്രാമപഞ്ചായത്ത്  
 പിണങ്ങോട് പി.ഒ. വയനാട് ജില്ല  
 കേരളം ഫോൺ: 04936 202481

Gram Panchayath License

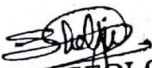
Annexure No.5

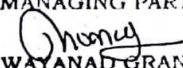
959/2018/1 Dup. 2 500Rs.

**FORM H**  
(See Rule 43)  
**QUARRYING LEASE**

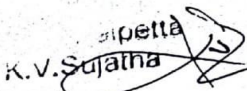
This deed of lease made on this the 20 day of March 2018 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and M/s Wayanad Granites, Kodancherrykunnu, Vengappally, Pinangode. P.O, Wayanad 673 121 (Represented by its Managing Partner, Shri. M. M. Thomas, S/o Joseph (Late), Madathina Mattathil House, Kaicheri, Kannavam .P.O, Kannur District— 670650) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

(...2)

Lessor  **GEOLOGIST**  
DISTRICT OFFICE  
DEPT. OF MINING & GEOLOGY  
MEENANGADI, WAYANAD - 673 591

Lessee **MANAGING PARTNER**  
  
**WAYANAD GRANITES**

No. 33885  
Value 500/-  
Date 15/3/2018  
Issue

Stamp  K.V. Sujatha  
M.M. Thomas  
Managing Partner  
Wayanad Granites  
Vengappally

**DISTRICT TREASURY**  
**WAYANAD**  
**09 MAR 2018**  
**KALPETTA NORTH**  
**PIN: 673 122**

Copy of Lease Order



## Annexure No. 6

**TEST REPORT**

Test Report No: 20200820/R050	Date: 25.08.2020	Page 1 of 1
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CUSTOMER DETAILS	
Customer Details	Name & Address Mr. M.M Thomas Managing Partner M/s Wayanad Granites Pinangode, Kalpetta Wayanad District
Location of Site	Survey No 371/1, 371/2/1, 372/1, 372/4, 372/2, 373/1
	Village Vengapally
	Taluk Vythiri
	District Wayanad
	State Kerala
Customer Reference	---
SAMPLE DETAILS	
Source of Sample	Ambient Sound Level
Sample Code	20200820/S050
Location of Monitoring	South side Boundary
Date of Monitoring	20.08.2020
Method	IS 9989:1981 RA:2008

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	38.1 dB (A)	23.00 Hrs	37.8 dB (A)
07.00 Hrs	40.9 dB (A)	00.00 Hrs	37.4 dB (A)
08.00 Hrs	45.2 dB (A)	01.00 Hrs	38.2 dB (A)
09.00 Hrs	48.7 dB (A)	02.00 Hrs	37.8 dB (A)
10.00 Hrs	51.1 dB (A)	03.00 Hrs	38.5 dB (A)
11.00 Hrs	54.2 dB (A)	04.00 Hrs	37.4 dB (A)
12.00 Hrs	51.5 dB (A)	05.00 Hrs	39.2 dB (A)
13.00 Hrs	50.7 dB (A)	RESULTS	
14.00 Hrs	51.1 dB (A)		
15.00 Hrs	51.5 dB (A)	Noise Level (Leq) Daytime	49.6 dB (A)
16.00 Hrs	52.7 dB (A)		
17.00 Hrs	53.1 dB (A)		
18.00 Hrs	47.6 dB (A)		
19.00 Hrs	44.0 dB (A)		
20.00 Hrs	40.1 dB (A)	Noise Level (Leq) Nighttime	37.7 dB (A)
21.00 Hrs	39.6 dB (A)		
22.00 Hrs	36.9 dB (A)		

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories

Authorized Signatory

Laiju P. N.  
Laboratory Head**Standard<sup>S</sup> Environmental & Analytical Laboratories**

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB  
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com

**Ambient Air**

## Annexure No.7

**TEST REPORT**

Test Report No: 20200820/R051	Date: 25.08.2020	Page 1 of 1
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**CUSTOMER DETAILS**

Customer Details	Name & Address	Mr. M.M Thomas Managing Partner M/s Wayanad Granites Pinangode, Kalpetta Wayanad District
Location of Site	Survey No	371/1, 371/2/1, 372/1, 372/4, 372/2, 373/1
	Village	Vengapally
	Taluk	Vythiri
	District	Wayanad
	State	Kerala
Customer Reference	---	

**SAMPLE DETAILS**

Sample Code	20200820/S051	Sample Received On	22.08.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Open Well	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	22.08.2020
Sampled By	Customer	Test Completed On	25.08.2020

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	< 0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	7.33	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	162	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	113	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2014	mg/L	42.9	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	10.31	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	3.85	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	23.1	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2014	mg/L	35.4	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.16	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2014	mg/L	0.99	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
15	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

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

For and on behalf of  
Standard<sup>s</sup> Environmental & Analytical Laboratories

Authorized Signatory

Laiju P. N.  
Laboratory HeadStandard<sup>s</sup> Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2017 &amp; "A" Grade Laboratory of KSPCB

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: seaalab@gmail.com**Result of ambient Noise**

## Annexure No.8

**TEST REPORT**

Test Report No: 20200820/R049	Date: 25.08.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	Mr. M.M Thomas Managing Partner M/s Wayanad Granites Pinangode, Kalpetta Wayanad District	
Location Of Site	Survey No	371/1, 371/2/1, 372/1, 372/4, 372/2, 373/1	
	Village	Vengapally	
	Taluk	Vythiri	
	District	Wayanad	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	20200820/S049
Location of Monitoring	Near South side Boundary	Sampled By	Laboratory
Date of Monitoring	20.08.2020	Test Started On	22.08.2020
Sample Received On	22.08.2020	Test Completed On	25.08.2020
Humidity	72 %	Sampling Procedure	SEAAL/ENL/GEN/SOP/02

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	56.9	100 (Max)
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	23.7	60.0 (Max)
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
04	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

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

For and on behalf of  
Standard<sup>S</sup> Environmental & Analytical Laboratories

Authorized Signatory

**Laiju P. N.**  
Laboratory Head

**Standard<sup>S</sup> Environmental & Analytical Laboratories**

Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB  
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
Web: www.sealabs.in, E-mail: sealab@gmail.com

**Result of drinking water**

Annexure No.9

Babu. T. Potgulla



**Cert No. MR/SZ/0730**

**भारत सरकार/Government of India**  
**खान अधिनियम, 1952/Mines Act, 1952**  
**खनन परीक्षा बोर्ड/Board of Mining Examinations**  
**खनन मेट सक्षमता प्रमाण-पत्र**

**Mining Mate's Certificate of Competency**  
**(केवल ओपेनकास्ट खानों तक सीमित)**  
**(Restricted to mines having opencast workings only)**  
**(धात्विकीय खान विनियम, 1961 के अन्तर्गत)**  
**(Under the Metalliferous Mines Regulations, 1961)**

श्री **श्री. बाबु थिम्मप्पा पोतगुल्लि** **सुपुत्र** **है, को अपनी**  
**जिनका जन्म तिथि** **23<sup>RD</sup> SEPTEMBER, 1963 (SIXTY THREE)** **को** **केन्द्र पर आयोजित**  
**आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण**  
**प्रस्तुत करने एवं दिनांक** **05.11.2016** **को** **केन्द्र पर आयोजित**  
**विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र**  
**प्रदान किया जाता है।**

**श्री. BABU THIMMAPPA POTGULLI** **son of** **THIMMAPPA D.**  
**born on** **23<sup>RD</sup> SEPTEMBER, 1963 (SIXTY THREE)** **having given satisfactory evidence of his age,**  
**medical fitness, good character, literacy and prescribed experience of working in metalliferous**  
**mines and having passed the prescribed examination held at** **GVTC, SANDUR**  
**centre on** **05.11.2016** **is hereby granted MINING MATE'S CERTIFICATE OF**  
**COMPETENCY restricted to mines having opencast workings only.**

**बाएं हाथ** **निशान**  
**Left hand thumb impression**

**अंचल सचिव** **अध्यक्ष**  
**Zonal Secretary** **Chairman**  
**Board of Mining Examinations** **Board of Mining Examinations**  
**Southern Zone, Bengaluru**

**Signed and Sealed**  
**Date** **23/02/2017**

Certificate of Mining Mate

## Annexure No.10

Cert No. SMU-E / 2635	 सत्यमेव जयते		 ALLWYN JOSHUA .W
भारत सरकार/Government of India खान अधिनियम, 1952/Mines Act, 1952 खनन परीक्षा बोर्ड/Board of Mining Examinations			
द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र <b>SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY</b> (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961)			
श्री अलवान जोशुवा डब्लु जिनकी जन्म तिथि 25.05.1992	सुपुत्र	वेसली सुगुना कुमार है, को विहित अर्हताएं एवं अनुभव प्राप्त करने	
का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा धात्विकीय खानों के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 10 जुलाई 2018 से प्रभावी है।			
Shri ALLWYN JOSHUA W born on 25 May, 1992	 son of WESLEY SUGUNA KUMAR	having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines. This certificate is effective from. 10.07.2018	
 सचिव खनन परीक्षा बोर्ड Secretary Board of Mining Examinations	 अध्यक्ष खनन परीक्षा बोर्ड Chairman Board of Mining Examinations		
Signed and Sealed Date 04-12-2018			

## Certificate of Second Class Manager

Annexure No.11

Sl. No.	1218142	CERTIFICATE NO.	RV01231714
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## St. John Ambulance (India)

## Indian Red Cross Society

National Headquarters, 1, Red Cross Road, New Delhi - 110 001

**President**  
The President of India

**Secretary General**

**Chairman**  
Minister of Health & Family Welfare  
Government of India

*[Handwritten Signature]*

This is to certify that

**ALLWYN JOSHUA W**  
son/daughter/wife of Shri **WESLEY SUGUNA KUMAR**  
has been awarded this certificate

EXAMINATION	RE-EXAMINED FOR VOUCHER	CENTRE	KOLAR
SUBJECT	FIRST AID	DATE OF EXAMINATION	16-Sep-2016

**PREVIOUS EXAMINATION DETAILS :-**

1. SFA No. - 00977071, DATE - 12-08-15 CENTRE - KOLAR

**THIS CERTIFICATE WILL BECOME INVALID UNLESS THE HOLDER IS RE-EXAMINED WITHIN FIVE YEARS AND OBTAINED PRESCRIBED MARKS.**

*[Handwritten Signature]*

Signature of the Candidate

*[Handwritten Signature]*

Surgeon Examiner  
(Seal & Signature)


*[Handwritten Signature]*

Secretary General

Place : New Delhi

CPN: D138254\_3

SL. No. 1829915 CERTIFICATE NO. RM01652511



## St. John Ambulance (India)


### Indian Red Cross Society


National Headquarters, 1, Rajapour Cross Road, New Delhi - 110 001

**President**  
The President of India

**Chairman**  
Minister of Health & Family Welfare  
Government of India

**Secretary General**





*[Handwritten Signature]*

**This is to certify that** **BAJU THIMMAPPA POTGULLI**  
 son/daughter/wife of Shri **THIMMAPPA D**  
 has been awarded this certificate

EXAMINATION	RE-EXAMINED FOR MEDALLION	CENTRE	BALLARI
SUBJECT	FIRST AID	DATE OF EXAMINATION	23-Nov-2017

**PREVIOUS EXAMINATION DETAILS :-**

1. SFA No. - 1425073 , DATE - 30-08-10 CENTRE - BELLARY
2. VFA No. - 00291813, DATE - 26-05-13 CENTRE - BELLARY

\_\_\_\_\_  
Signature of the Candidate


Place : New Delhi

*[Handwritten Signature]*

Surg. on Examiner  
(Seal & Signature)

*[Handwritten Signature]*

Joint Secretary (In-Charge)



CPN: E179621\_1

**Certificate of Persons with first Aid Certificate**