

# TRIPTHY GRANITES

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Pallippadam  
Chazhiyattiri P.O.  
Palakkad Dist.  
Kerala - 679 535

**The Director- IA. II (M),**  
Ministry of Environment, Forests & Climate Change,  
Indira Paryavaran Bhawan, Jor Bagh Road,  
New Delhi-110 003.

Dt. 03-07-2018

**Sub.:- Environmental Clearance - Proposed "Building Stone Mine" situated at Thirumittacode II Village, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, Kerala in an area of 8.2140 ha. - B2 Category - 33<sup>rd</sup> EAC (Item No. 2.44) - Clarification - Reg.**

**Ref: 1. Proposal No. IA/KL/MIN/73668/2018 & File No. J-11015/42/2018-IA.II(M)**  
**2. Minutes of 33<sup>rd</sup> EAC meeting held on 21<sup>st</sup>/22<sup>nd</sup> June, 2018 (Item No. 2.44)**

**Respected Sir,**

This is in reference to the minutes of 33<sup>rd</sup> EAC meeting held on 21/22 June, 2018. The EAC sought the following information:-

- i. Project Proponent shall submit the mine lease grant/Lol of the other three mines to determine the applicability of the cluster. In the event of cluster formation, the proposal is to be referred to the DEIAA, Kerala.
- ii. Further, Member Secretary may seek comments of Policy Wing as the cluster area between 5-25 ha also stipulates that individual lease should not be more than 5 ha. In the instant case, the proposed mine lease is more than 5 ha.

In regard to this we hereby submit the following:

1. Cluster Certificate issued by Mining & Geology Department, Govt. of Kerala, stating that there are two quarries (Minor Mineral mining projects) in operation within 500m. of the proposed mine lease area. (**Annexure No. 1**)
2. The details regarding the Minor Mineral mining projects (quarries) working within 500m. of the proposed mine lease area is given below:-
  - **Quarry No. 1** :- M/s Malayakam Aggregates and Sands (P) Ltd. for an area of 1.78 ha.. This project is accorded with Environment Clearance by SEIAA, Kerala, on 10-10-2017. The copy of the Environment Clearance is attached as **Annexure No. 2**
  - **Quarry No. 2** :- M/s Tripthy Granites for an area of 4.7811 ha. This project is accorded with Environment Clearance by SEIAA, Kerala, on 17-08-2016. The copy of the Environment Clearance is attached as **Annexure No. 3**. Mine lease issued for this area by Mining & Geology Department and the copy of the same is attached as **Annexure No. 4**.
3. Copy of the Survey Sketch duly signed by Tahsildar is attached as **Annexure No. 5**. This is to show the proposed mine lease area.

In view of the above submissions we humbly request you to consider our clarification and accord Environmental Clearance to the project.

Thanking you,  
Yours respectfully,  
**For TRIPTHY GRANITES**



**Benny Pathrose**  
**(Managing Partner)**

**Encl. :- As above**

# **ANNEXURE NO. 1**

# CLUSTER CERTIFICATE

Annexure No. 1

No. DOP/2130/2017/A1.

District office of the  
Department of Mining & Geology,  
Town Bus Stand Complex,  
Palakkad-14  
PH:No. 0491 2527196  
E-mail : [geo.pal.dmg@kerala.gov.in](mailto:geo.pal.dmg@kerala.gov.in)  
Dated : 09/11/2017

## CERTIFICATE

This is to certify that three quarries are situated within 500 meter radius of the quarrying lease applied area of Sri. Benny Pathrose (Partner), M/s. Thripathy Granites, Pallipadam, Chazhiyattiri. P.O, Peringode (Via), Palakkad District situated in Sy. No.274, Thirumittacode-II Village, Pattambi Taluk, Palakkad District, Kerala for an extent of 8.2140 hectares.

Details of the quarries situated within 500 meter is given below.

Sl. No	Name of the Quarry	Survey No/Village/Extent	Quarrying Lease No.	Status
1	M/s.Malayakam Aggregates and Sands (P) Ltd., Chazhiyattiri. P.O, Palakkad District.	Sy.No.274pt Thirumittacode-II Village, 1.7800 Hectare	No.482/2007-08/7585/M3/2007, dated. 01/11/2007	working
2	M/s.Tripathy Granites, Pallipadam, Chazhiyattiri. P.O, Palakkad District	Sy.No.274, 275/1A3, Thirumittacode-II Village, 4.7811 Hectare	No.95/2017-18/5160/M3/2016, dated. 20/05/2017	working
3	M/s.Malayakam Aggregates and Sands (P) Ltd., Chazhiyattiri. P.O, Palakkad District.	Sy.No.274, Thirumittacode-II Village, 1.9800 Hectare	....	Work not started. Applied for quarrying lease. Letter of intend issued by Director of Mining & Geology.

This certificate is issued to produce before the MoEF/SEIAA, Thiruvananthapuram.



Geologist  
GEOLOGIST  
District Office of the Department  
Mining and Geology, Palakkad  
PIN : 678 014

# **ANNEXURE NO. 2**



Validity expires on 09.10.2022

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

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

Sub:- SEIAA- Environmental Clearance for the proposed quarry project in Sy. No. 114 of Thirumittacode 2 Village, Pattambi Taluk, Palakkad District by Smt. Elsy Joseph, Managing Director, M/s Malayakam Granites Pvt. Ltd. - granted – Orders issued.

### **STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA**

**No. 929/SEIAA/EC1/3895/ 2015**

***Dated, Thiruvananthapuram 10.10.2017***

- Ref:
1. Application received on 23.09.2015 from Smt. Elsy Joseph (Managing Director), M/s Malayakam Granites Pvt. Ltd., Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535
  2. Minutes of the 57<sup>th</sup> meeting of SEAC held on 16<sup>th</sup> & 17<sup>th</sup> June 2016
  3. Minutes of the 56<sup>th</sup> meeting of SEIAA held on 23<sup>rd</sup> July 2016
  4. Minutes of the 62<sup>nd</sup> meeting of SEAC held on 6<sup>th</sup> & 7<sup>th</sup> September 2016.
  5. Minutes of the 60<sup>th</sup> meeting of SEIAA, held on 27<sup>th</sup> October 2016
  6. Minutes of the 68<sup>th</sup> meeting of SEAC held on 20<sup>th</sup> & 21<sup>st</sup> February 2017
  7. Minutes of the 73<sup>rd</sup> meeting of SEAC held on 30<sup>th</sup> and 31<sup>st</sup> May 2017.
  8. Minutes of the 71<sup>st</sup> meeting of SEIAA held on 20<sup>th</sup> July 2017
  9. Affidavit dated 10.08.2017 from Smt.Elsy Joseph

### **ENVIRONMENTAL CLEARANCE NO.73/2017**

Smt. Elsy Joseph (Managing Director), M/s Malayakam Granites Pvt. Ltd., Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535 vide her application received on 23-09-2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Survey No. 114 of Thirumittacode 2 Village, Pattambi Taluk, Palakkad District, Kerala in an area of 2.5262 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) 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.

**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**

Project details		
	File No.	<b>929 / SEIAA / EC4 / 3895 / 2015</b>
1.	Name /Title of the project	Environment Clearance for Stone Quarry (Minor Mineral) project of M/s Malayakam Granites Pvt. Ltd.
2.	Name and address of project proponent.	<b>Mrs. Elsy Joseph, (Managing Director)</b> <b>M/s Malayakam Granites Pvt. Ltd.</b> Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535
3.	Owner of the land	The land for the proposed quarry is a private owned land and the land is possessed in the name of M/s Malayakam Granites Pvt. Ltd..
4.	Survey No. District/Taluk / and Village etc.	Survey No. 114, Thirumittacode 2 Village, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, Kerala
5.	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>	Not applicable, as the proposal is for fresh quarry project.
6.	Present Status of the project a. Date & Year of starting the work of the quarry project. b. whether the quarry is working at present or not	Not applicable, as the proposal is for fresh quarry project.

	?					
	c. If stopped working since when?					
7.	Date of submission of Application	23/ 09 / 2015				
8.	Brief description of the project.	The land for the proposed quarry is private owned land and the land is possessed in the name of M/s Malayakam Granites Pvt. Ltd. The targeted production of mine will be 50,000 MTA. The estimated project cost is Rs. 1.50 Crores. The expected life of mine estimated will be about 21 years. The mining operation will be carried out by opencast semi-mechanized method as per approved Mining Plan.				
9.	Details of Authorized Signatory and address for correspondence	<b>Mrs. Elsy Joseph, (Managing Director)</b> <b>M/s Malayakam Granites Pvt. Ltd.</b> Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535				
<b>I. Land Details</b>						
10.	1. Extent of area in hectares	2.5262 hectares				
11.	2. Is the property forest land/ Govt. land / own land/patta land	The land for the proposed quarry is private owned land.				
12.	3. Quantity of top soil/over burden produced and managed	A total quantity of 5,052 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.  About 7,578 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.				
13.	4. Latitude and Longitude	<table><tr><td><b>Latitude (N)</b></td><td><b>10° 43'02.02" to 10° 43'10.39"</b></td></tr><tr><td><b>Longitude (E)</b></td><td><b>76° 09'18.56" to 76° 09'25.05"</b></td></tr></table>	<b>Latitude (N)</b>	<b>10° 43'02.02" to 10° 43'10.39"</b>	<b>Longitude (E)</b>	<b>76° 09'18.56" to 76° 09'25.05"</b>
<b>Latitude (N)</b>	<b>10° 43'02.02" to 10° 43'10.39"</b>					
<b>Longitude (E)</b>	<b>76° 09'18.56" to 76° 09'25.05"</b>					
14.	5. Topography of land and elevation	Part of the proposed land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the lease area is 105 m MSL and lowest is 85 m MSL.				
15.	6. Slope analysis	Slope of the lease area is towards East side.				
16.	Will there be any significant land disturbance	Due care will be taken to provide channel all around the foot hill to collect run off and also to avoid soil erosion.  There is no danger of flood or inundation as the proposed working is				

	resulting in soil erosion, subsidence & natural drainage.	above the normal ground level. The area is not susceptible to flood.
17.	Access road to the site width and condition	6m wide road.
18.	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 pits and plantation and pond. Plantation and afforestation will add to the improvement in environment and aesthetic beauty of the area.
<b>II. Mining details</b>		
19.	Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 105 m MSL to 80m MSL in conceptual phase.
20.	Life of mine proposed.	About 21 years.
21.	Underground mining if any proposed	No underground mining proposed.
22.	Method of Mining	The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan
23.	Distance from the adjacent quarry	There are four quarries (not operating) located within 500m radius of the proposed quarry for total area of 209.622 Ares (2.09 ha.) as abandoned due to permit / lease expired.
24.	Cluster condition if any	No cluster condition
25.	Has "No cluster certificate" submitted?	Cluster Certificate issued by Department of Mining and Geology, Govt. of Kerala is already submitted.
26.	Distance from nearby habitation	Nearest house is at 194 m towards West side of the lease area.
27.	Distance from nearby forest, if applicable	Chittanda Reserve Forest about 8.50 km., SE
28.	Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
29.	Distance from nearby streams /rivers/ National Highway and Roads	<b>Water Bodies :-</b> 1. Aloor River, about 6 km, S 2. Bharathapuzha, about 8.5 km., NE



30.	Is ESA applicable? If so distance from ESA limit	Not in ESA
31.	Has approved mining plan, prepared by RQP submitted?	Yes, the approved mining plan prepared by RQP is already submitted along with E.C. Application.
32.	Capacity of production in TPA	50,000 MTA
33.	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 existing near the complex for further processing. The exploitation of mineral is being done from 105 m to 80m MSL in conceptual phase.
<b>III. Details of Project cost</b>		
34.	Land cost	Rs. 1.50 Crores ( All inclusive )
35.	Plant and Machinery	Rs. 1.50 Crores ( All inclusive )
36.	Total Cost	Rs. 1.50 Crores ( All inclusive )
37.	Financial Statement including funding source and details of insurance etc.	Rs. 1.50 Crores ( All inclusive ) Insurance = Insurance to the quarry workers would provide through insurance company. Funding = Own source & bank loan
38.	Management Plan	<p>Air Pollution</p> <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</li> </ul>

			<p>working at highly dust prone and affected areas.</p> <ul style="list-style-type: none"> <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	<p>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.</p>	
		Noise	<p>The major noise generating source from the proposed mining 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 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</p>	

			plants during temporary storage.	
			<b>Overburden Management</b> 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.	
		Eco-restoration	The year wise programme of eco-restoration for the life of mine, about 2500 trees will be planted in an area of 2.4862 ha.	
39.	Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes.		
40.	Does it suggest mitigation measures for each activity	Detailed Environment Management Plan is already submitted with E.C. Application.		
41.	If Pre-Feasibility Report (PFR) satisfactory	Detailed Pre-Feasibility Report (PFR) is already submitted with E.C. Application.		
42.	Does it need public hearing	Not Applicable		
43.	Details of litigation and Court verdict if any	No litigation pending.		
44.	Details of public complaint, if any	None		
45.	Details of statutory sanction required	The following Govt. Orders / Policies are to be followed:- ➤ Consents from Kerala State Pollution Control Board. ➤ Permission from Mining & Geology Department. ➤ Permission from Explosive Department ➤ Permission from Panchayat Office.		
46.	If CRZ recommendation applicable?	Not Applicable		
<b>PART B</b>				
<b>Environment Impact Assessment and Mitigation Measures</b>				
<b>Impact on water</b>				
47.	Details of water requirement per day in KLD	The total water requirement is about 5 KLD in which 1 KLD is for domestic requirement would be sourced from open well, 2 KLD for dust suppression system in mine and 2 KLD for plantation will be sourced from storm water pond.		

48.	Water source /sources.	1 KLD is for domestic requirement would be sourced from open well, 2 KLD for dust suppression system in mine and 2 KLD for plantation will be sourced from storm water pond.
49.	Expected water use per day in KLD.	1 KLD is for domestic requirement, 2 KLD for dust suppression system in mine and 2 KLD for plantation.
50.	Details of water requirements met from water harvesting.	2 KLD for dust suppression system in mine and 2 KLD for plantation will be sourced from storm water pond.
51.	What are the impact of the proposal on the ground water?	No significant impact envisaged on ground water due to the mining project.
52.	How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Nil
53.	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.
54.	How is the storm water from within the site managed?	<ul style="list-style-type: none"> <li>➤ Storm water drains with silt traps will be suitably constructed all along the periphery of the pit area to collect the run-off from the lease area and divert into the storm water pond/tanks proposed within the complex.</li> <li>➤ All measures will be taken not to disturb the existing drainage pattern adjacent to the other property.</li> <li>➤ De-siltation traps and storm water collection pond proposed for silt removal.</li> <li>➤ The storm water collected from the lease area will be utilized for dust suppression on haul roads, plantation within the premises etc.</li> </ul>
<b>Impact on Biodiversity and Eco restoration Programmes</b>		
55.	Will the project involve extensive clearing or modification of vegetation (Provide details)	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 eco-restoration.

56.	a) What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	<p>The year wise programme of eco-restoration for the life of mine will be made and 2,500 trees will be planted in an area of 2.4862 ha.</p> <p>Ecological restoration for the mined area by plantation of the species as per the time schedule suggested below: -</p> <p>First Six months                      -- Herbs &amp; grass</p> <p>Next Six months                        -- Shrubs</p> <p>Next Six months onwards            -- Trees</p> <p>Selection of species is based on High Dust Capturing, Soil Holding Capacity, ground water recharge capacity etc. More focus is given for medicinal plants.</p>
57.	<p>Is there any displacement of fauna – both terrestrial and aquatic. If so what are the mitigation measures ?</p> <p>Presence of any endangered species or red listed category (in detail)</p>	<p>Not applicable</p> <p>No endangered species found at site</p>
<b>Impact on Air Environment</b>		
58.	What are the mitigation measures on generation of dust, smoke and air quality	Details already provided at EMP section at Sr. No. 39 above.
59.	Details of internal traffic management of the site.	Designated space will be provided for parking of truck / tipper within the site. For the purposes of mining activities, existing roads are sufficient. However, haul road will be suitably developed within the proposed area. Speed of the vehicles will be maintained within the prescribed limits (Speed Governor fitted).
60.	Details of noise from traffic, machines and vibrator and mitigation measures	Details are already provided at EMP section at Sr. No. 39 above.
61.	Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation	Details provided at EMP section at Sr. No. 39 above and air, noise and water sampling reports were already submitted with EC Application.

	measures	
62.	Air quality monitoring in detail	Details provided at EMP section at Sr. No. 39 above and air, noise and water sampling reports were already submitted with EC Application.
<b>Energy Conservation</b>		
63.	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 – 16 to 20 lt/ hr.
64.	Details of renewable energy (non – conventional) used.	We will promote renewable energy resources.
<b>Risk Management</b>		
65.	Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	Detailed Environment Management Plan is already submitted with E.C. Application.
66.	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>		
67.	Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	No
68.	Will the proposal result in any changes to the demographic structure of local population. If so, provide details.	The mining project will directly / indirectly develop the area by providing employment opportunities. With the proposed development in and around the area there will be many supporting facilities/ infrastructure eventually leading to the development of the area.

69.	Are the CSR proposals satisfactory. Give details	Yes, a detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out and the copy of report was submitted with EC Application. The project proponent will set apart Rs. 6 Lakhs (non-recurring) and Rs. 12 Lakhs (recurring) for CSR activities for the welfare of the local community in consultation with the local body.
70.	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 25 persons in the project.
<b>PART C</b>		
71.	Details of NABET approved EIA Consultant engaged- Their name, address and accreditation details	<p><b>M/s Environmental Engineers &amp; Consultants Pvt. Ltd.</b> <b>(NABET Accredited Consultant Organization)</b></p> <p><i>Head Office :-</i> A1-198, Janak Puri, New Delhi.</p> <p><i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.</p>
<b>Summary and Conclusion</b>		
72.	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.
73.	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 considered in the 57<sup>th</sup> Meeting of SEAC held on 16<sup>th</sup> & 17<sup>th</sup> June 2016. The committee appraised the proposal based on the Mining Plan, Pre-feasibility report and all other documents submitted along with the Form I application and recommended for issuance of EC for mining subject to the general conditions. The proponent agreed to set apart Rs 6 lakhs (non-recurring) and 13 lakhs per annum (recurring) for next 5 years for CSR activities for the

welfare of the local community. The proponent also agreed to spend this amount in consultation with the local Panchayath.

3. 56<sup>th</sup> meeting of SEIAA held on 23<sup>rd</sup> July 2016 considered the matter and decided to refer the case to SEAC for site inspection and report.

4. The proposal was again considered in the 62<sup>nd</sup> SEAC meeting held on 6<sup>th</sup> & 7<sup>th</sup> September 2016. The Committee decided to recommend to SEIAA to review its earlier decision in the matter.

5. The proposal was placed in the 60<sup>th</sup> meeting of SEIAA, held on 27<sup>th</sup> October 2016. The Authority resolved to send the proposal back to SEAC to conduct site inspection.

6. The proposal was placed in 68<sup>th</sup> meeting of SEAC held on 20<sup>th</sup> & 21<sup>st</sup> February 2017. The Committee examined the suggestions made by SEIAA and decided to defer the item for site inspection. Subsequently, the site visit was conducted on 01.04.2017 by the Subcommittee consisting of Dr.K.G.Padmakumar & Dr.E.A.Jayson and the report was submitted.

7. The proposal was considered in the 73<sup>rd</sup> meeting of SEAC held on 30<sup>th</sup> and 31<sup>st</sup> May 2017. The Committee verified the additional documents submitted by the proponent and found satisfactory. Based on the Mining plan, Form.1, all other documents submitted with the proposal and the field visit report, the committee decided to Recommend for issuance of EC subject to general conditions in addition to the following specific condition.

1. *If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.*
2. *No quarrying operation shall be carried out within 100m distance of the adjacent vested forest area.*

The proponent agreed to set apart Rs.6 lakhs (non-recurring) and 13 lakhs (recurring) per annum for CSR activities for the welfare of the local community. The proponent also agreed to spend this amount in consultation with the local body.

8. The proposal was finally considered in the 71<sup>st</sup> meeting of SEIAA held on 20<sup>th</sup> July 2017. The Authority accepted the recommendation of SEAC and decided to issue EC subject to general condition in addition to the following specific conditions.

1. *If any plant species endemic to Western Ghats are noticed in the area they*



*shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.*

2. *No quarrying operation shall be carried out within 100m distance of the adjacent vested forest area.*

The proponent should set apart Rs.6 lakhs (non-recurring) and 13 lakhs (recurring) per annum for CSR activities for the welfare of the local community. A notarised affidavit for the commitment of CSR activities and agreeing all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted an affidavit vide reference 9<sup>th</sup> cited, satisfying all the above conditions.

9. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the proposed quarry project of Smt. Elsy Joseph (Managing Director), M/s Malayakam Granites Pvt. Ltd., Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535 in Sy. No. 114 of Thirumittacode 2 Village, Pattambi Taluk, Palakkad District, Kerala for an area of 2.5262 hectares, subject to the specific conditions as in para 8 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.

10. 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 4 (Mining) Chapter 5 (Blasting) Chapter 6 (Mines Drainage), Chapter 7 (Stacking of Mineral rejects and Disposal of waste), Chapter 11 (EMP) Chapter 12 (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.

11. 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.

12. 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, Palakkad to take legal action under the Environment (Protection) Act 1986.
- iii. The given address for correspondence with the authorised signatory of the project is Smt. Elsy Joseph (Managing Director), M/s Malayakam Granites Pvt. Ltd., Melepura Estate, Chazhiyattiri P.O., Erumapetty, Wadakanchery, Palakkad, Kerala-679535.

Sd/-

**JAMES VARGHESE I.A.S.,**  
**Member Secretary (SEIAA)**

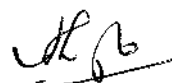
To,

Smt. Elsy Joseph (Managing Director),  
M/s Malayakam Granites Pvt. Ltd.,  
Melepura Estate, Chazhiyattiri P.O.,  
Erumapetty, Wadakanchery, Palakkad,  
Kerala-679535

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. District Collector, Palakkad
4. Director, Mining & Geology, Thiruvananthapuram -4.
5. The Member Secretary, Kerala State Pollution Control Board
6. District Geologist, Palakkad
7. Tahsildhar, Pattambi Taluk, Palakkad.
8. Chairman, SEIAA.
9. Website.
10. S/f
11. O/c

Forwarded/By Order



Administrator (SEIAA)

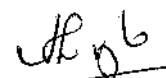
# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

## 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°. 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 thisimplementation 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



# **ANNEXURE NO. 3**



सत्यमेव जयते

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

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. V. S. Senthil, I.A.S.,  
Member Secretary.*

Sub: Environmental Clearance -Application for environmental clearance for the quarry project in Sy. Nos. 274 and 275/1A3 at Thirumittacode Village II, Thirumittacode Panchayath, Pattambi Taluk, Palakkad District, Kerala by M/s Tripthy Granites- E.C-Granted-Orders issued.

### **STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY**

**No. 826/SEIAA/EC1/2609/2015**

*dated, Thiruvananthapuram 17-08-2016*

- Read: - 1. Application dated 27-06-2015 from Sri. Benny Pathrose, Partner, M/s Tripthy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri P.O., Palakkad District-679535.*
- 2. Minutes of the 48<sup>th</sup> meeting of SEAC held on 6-7/11/2015.*
  - 3. Minutes of the 56<sup>th</sup> meeting of SEAC held on 6-7/06/2016.*
  - 4. Minutes of the 55<sup>th</sup> meeting of SEIAA held on 16/07/2016.*

### **ENVIRONMENTAL CLEARANCE NO. 116/2016**

Sri. Benny Pathrose, Partner, M/s Tripthy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri P.O., Palakkad District-679535, vide his application received on 07-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 274, 275/1A3 at Thirumittacode Village II, Thirumittacode Panchayath, Pattambi Taluk, Palakkad District, Kerala for an area of 4.7811 hectares. The project comes under Category B, Activity 1(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. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the project are as follows:



Basic Details	
Name of the Project	M/s Tripthy Granites (Building Stone Quarry)
Survey Numbers	Survey Nos. 274, 275/1A3
Village	Thirumittacode-II
Tehsil	Pattambi
District	Palakkad
Extent of land in hectors	4.7811 hectares
Is the property forest land/Govt. land/ own land	Private own land
Latitude (N)	10°42'51.47" to 10°42'42.61"
Longitude (E)	76°09'56.39" to 76°09'45.99"
Minimum and maximum height of excavation (MSL)	70 m MSL to 160 m. MSL
Life of mine proposed	About 8 years
Distance of mining area from nearest human settlement	About 143m in NE side from the site.
Ultimate depth of mining (in MSL)	70m MSL.
Distance from the adjacent quarry	There is a quarry of M/s Malayakam Aggregates and Sands Pvt. Ltd. in operation within 500m. for an area of 1.7800 ha.
Cluster condition (if any)	There is a quarry of M/s Malayakam Aggregates and Sands Pvt. Ltd. in operation within 500m. for an area of 1.7800 ha.
Proposed production capacity	2,00,000 MTA
Expected cost of the project	Rs. 2.635 Crores
Interlinked project (if any)	The proposed quarry project will be interlinked with Crusher Unit to be developed within the complex.
Whether CRZ is applicable	NA
Status of litigation/complaint/cases	Nil as declared
Permanent or temporary change on land use, land cover or topography	The project site is private owned land. The proposed area is hilly. Drainage is towards south-west. Significant impact will be confined within the lease area.
Topography of land and elevation	The topography of the lease area is hilly. Drainage of the lease area is towards south-west
Vegetation	The area for proposed quarry has some native trees, climbers, grass, shrubs, herbs etc. There is no existing building in the proposed area.
Nearest water body	Aloor River, 3.50 km., S Bharathpuzha River, 8 km., N
Change in water bodies due to mining activities	Nil
Proneness to natural hazards	None
Environmental parameters considered	
Water	
Water (expected use and sources in KLD)	The total water requirement is about 15 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit (Crusher / M sand Unit) and 2 KLD for

		plantation purposes and will be sourced from storm water pond.
Sources of generation and facilities for liquid waste treatment		There will be no industrial waste generation due to proposed project.
Facilities for liquid waste treatment		There will be no industrial waste generation due to proposed project.
Water quality meeting requirements		Water quality requirements to be as per rules after treatment (filtration, disinfection & sedimentation).
Water Regime		Open Well, Storm water pond.
<b>LAND</b>		
Access road to the site –Width & Condition		11 m., tarred road towards East Side.
Proximity to forest lands		Chitanda Reserve Forest, 7 km., SE
Storage of explosives /hazardous substances		Considering low consumption, a 550 kg magazine is for storing the explosive. The magazines are exists within the complex
Hazardous waste management		<p><b><u>Industrial Waste Management</u></b> There will be no industrial waste generation due to proposed project.</p> <p><b><u>Solid Waste Management</u></b> About 43,030 cu. m. of top soil is estimated from the pit of the proposed mine. Other than top soil, about 19,124 cu. m. of overburden will be generated throughout the mine life.</p>
Facility for solid waste management		A total quantity of 43,030 cu. m. of topsoil and 19,124 cu. m. of over burden will be removed during the mining operations. The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. OB will be utilized for laying internal haul road and will form base in reclamation / plantation.
Env't Mgmt plan/ Eco restoration plan		<b><u>MANAGEMENT PLAN:</u></b>
	<b>Air pollution</b>	<ul style="list-style-type: none"> <li>• 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.</li> <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> </ul>

		<ul style="list-style-type: none"> <li>• Periodical monitoring of ambient air quality in and around the lease area.</li> <li>• The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</li> <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> </ul>
	<b>Water pollution</b>	Provision of storm water collection pond with 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.
	<b>Noise</b>	<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> </ul> <p>Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.</p>
	<b>Solid Waste Management</b>	<p><b>Topsoil Management</b> A total quantity of 43,030 cu. m. of topsoil is proposed to be removed during the mining operations. The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump 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><b>Overburden Management</b> About 19,124 cu. m of overburden 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>
	<b>Eco restoration</b>	The year wise programme of eco-restoration for the life of mine, about 4,500 trees will be planted in an area of 4.7811 ha.
<b>Noise</b>		
Noise level monitoring		Noise levels should be maintained with in the permissible standard limits.
<b>AIR</b>		

Likely emissions affecting environment	Emissions from the vehicles only.			
Air quality monitoring	Ambient air quality should be maintained within the permissible standard limit			
<b>ENERGY</b>				
Energy requirement	The total power requirement will be 75 kW for compressors which will be operated by Diesel Engine.			
<b>BIODIVERSITY</b>				
Presence of any endangered species or red listed category (In detail)	No.			
Loss of native species and genetic diversity (In detail)	The some area of proposed quarry has native trees, climbers, grass, shrubs, herbs etc			
Eco restoration programmes (In detail)	The year wise programme of eco-restoration for the life of mine, about 4,500 trees will be planted in an area of 4.7811 ha.			
<b>SOCIAL ASPECTS</b>				
Proximity to nearest densely populated or build-up area	Nearest Town Pattambi 15 km, N direction			
CSR components suggested	<b>Proposed common CSR Budget</b>			
	<b>Sl.No.</b>	<b>Particulars</b>	<b>Amount Rs. in lakhs</b>	
			<b>Recurring</b>	<b>Non Recurring</b>
	1	Education	3.30	5.73
	2	Health	5.60	2.80
	3	Community Development	4.10	1.00
	4	Ensuring environmental sustainability	3.00	--
	5	Reduction in carbon footprint & CO <sub>2</sub> emission	--	0.90
<b>Total</b>		<b>16.00</b>	<b>10.43</b>	
<b>GENERAL</b>				
Details of Authorised Signatory & Address for correspondence)	Sri. Benny Pathrose, Partner M/s Triphy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri Post, Palakkad District, Kerala-679535.			
Details of NABET approved EIA consultant Organisation	M/s Environmental Engineers & Consultants Pvt. Ltd. ( Sr. No. 58 as per MoEF&CC list of Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala			
3. The proposal was first considered in the 48 <sup>th</sup> meeting of SEAC held on 6 <sup>th</sup> and 7 <sup>th</sup> November, 2015. The Committee deferred the item for Field Inspection to assess the				

ground realities including the possibility of cluster situation and production of an approved mining plan as per KMMC Rule 2015.

4. Field visit to the Quarry project site was carried out on 03.05.2016 by a Sub-committee of SEAC, Kerala, comprising of Dr. Jayson E.A. and Dr. Padmakumar. The representatives of the Proponent were also present at the site. The site inspection report is extracted as follows:

*"This is a new quarry proposed with a short term quarrying permit issued by Mining & Geology Department, Govt of Kerala for an area of 4.7811 Ha. The mining activity will have localized impact and create physical change in the existing environment due to the change in the land use. The mining plan submitted is as per KMMC Rule 1967 and hence a revised mining plan as per KMMC Rule 2015 is required. The life of mine is 8 years. The highest elevation of the proposed site is 160 m AMSL and lowest is 70 m AMSL. Annual production of the unit proposed is 2,00,000 MTA. No quarries were found within 500 m radius of the area.*

*The method of operation proposed is through controlled blasting. No activities were carried out in the quarry site. This quarry area falling in own land is moderately sloping to north-south direction, exposing hard rock, mostly fractured charnockite suite of rocks. The rock type is mostly with sub-horizontal foliation in folded attitude. Pockets of weathered rock with limited over burden (OB) is seen in the upper eastern part. Being an elevated land, streams are not seen in the site. However fairly good seepage of water is seen at the interface of rock and OB. Garland drains has to be developed to drain the water to the western side and silting ponds has to be provided before draining the water outside the lease area. Dwelling units are not seen in the immediate vicinity of 100 m. The water demand of the quarry is proposed to be met from the wells in the premises. The workers should be provided with good accommodation and canteen facilities.*

*Based on an overall evaluation of the site, following points may be considered:*

- 1. No quarrying activity has been initiated in the site.*
- 2. Over burden should be stored in a planned manner in the designated place. It must be provided with protective support and no soil should be send outside the lease area.*
- 3. The drainage from the quarry should be directed to the settling pond.*
- 4. The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good motorable condition by the proponent.*
- 5. The blasting time must be displayed and strictly adhered to. The PPV values must be less than 10 mm/sec. Steps to be taken to limit fly rock to the quarry area.*
- 6. Dust suppression mechanism must be in place.*
- 7. In the absence of perennial streams in the vicinity, ultimate depth of mine*

*will depend on the possible benches in the lease area.*

- 8. Vegetation is seen all around the quarry but must be maintained till the entire life of quarry.*
- 9. The whole area is a Rubber plantation and compensatory planting should be done with native tree species.*
- 10. The whole lease area should be protected with fence.*
- 11. Sign boards should be fixed in the proper places.*

*Other items from general conditions and CSR may be added".*

5. The proposal was again considered by SEAC in its 56<sup>th</sup> meeting held on 06/07-06-2016. The Committee appraised the proposal based on Form I, Pre-feasibility report, Mining Plan & Field Inspection Report. The Committee recommended the proposal for issuance of EC with the general conditions subject to the following specific conditions.

1. Over burden should be stored in a planned manner in the designated place. It must be provided with protective support and no soil shall be taken outside the lease area.
2. The drainage from the quarry should be channelled through a settling tank.
3. The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good motorable condition by the proponent.
4. Dust suppression mechanism must be in place.
5. Fencing shall be provided at vulnerable points of the quarry to avoid accidents.
6. Sign boards should be fixed in the proper places.

6. The proposal was considered by SEIAA in its 55<sup>th</sup> meeting held on 16<sup>th</sup> July 2016. The Authority considered the recommendations and approved for issuance of E.C for the quarry project subject to the above specific conditions and the usual general conditions for mining projects.

7. Environmental Clearance under the EIA notification 2006 is therefore granted to the quarry project of M/s Triphy Granites in 4.7811 hectares comprised in Sy. No. 274 and 275/1A3 at Thirumittacode-II, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, subject to the specific conditions in para 5 above and the general conditions stipulated for mining projects. The grant of E.C is also subject to production of non-cluster certificate, affidavit and the mitigation measures undertaken in the EMP in the PFR. However if any genuine complaints about the quarry is received, E. C issued shall be reviewed.

8. 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 are relied on for grant of this clearance. The above undertakings and the conditions and undertakings in chapter 4 of Mining plan (Mining), Chapter 5 of Mining plan (Blasting), Chapter 6 of Mining Plan (Mine

drainage), Chapter 7 of Mining Plan (Stacking of Mineral rejects and Disposal of waste), Chapter 11 of Mining plan and Chapter 4.3.4 of pre-feasibility report (EMP), the Chapter 11 of PFR (Disaster Management), and the entire Progressive Mine Closure Plan as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

9. Validity shall be five years from the date of issuance of E.C, 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. Environmental Clearance is therefore granted to the quarry project of Sri. Benny Pathrose, Partner, M/s Triphy Granites, in 4.7811 hectares comprised in Sy. No. 274 and 275/1A3 at Thirumittacode-II, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District subject to the specific conditions in para 5 above and the general conditions annexed hereto.

10. Compliance of the conditions herein will be monitored by the Authority or its agencies 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, Palakkad to take legal action under the Environment (Protection) Act, 1986.

The given address for correspondence with the authorised signatory of the project is Sri. Benny Pathrose, Partner, M/s Triphy Granites, Pallippadam, Malatyamkunnathu, Chaliyattiri P.O., Palakkad District-679535.

Sd/-

V.S. SENTHIL, I.A.S.,  
Member Secretary, SEIAA  
&  
Addl. Chief Secretary  
Environment & Forests Department  
Government of Kerala.

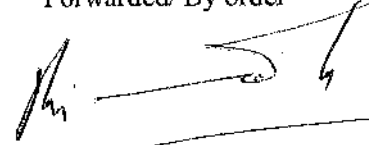
To,

Sri. Benny Pathrose, Partner,  
M/s Triphy Granites,  
Pallippadam,  
Malatyamkunnathu,  
Chaliyattiri P.O.,  
Palakkad -679535.

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 District Collector, Palakkad
4. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4
5. Panchayath Secretary, Thirumittakkode Panchayath Office, Chathanur Post, Pattambi, Palakkad-679535
6. Chairman, SEIAA, Kerala
7. Website
8. E.C File
9. S/f
10. O/c

Forwarded/ By order



G. Rajeev,  
Administrator,  
SEIAA.





SECRET

# 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 100 m 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 proponent 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°. 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

G. RAJEEV  
Administrator

State Environment Impact Assessment Authority  
Pallimanku, Pottah  
Thiruvananthapuram-695024  
Phone: 0471-2762264



# **ANNEXURE NO. 4**

Directorate of Mining & Geology  
Kesavadasapuram, Pattom P.O.  
Thiruvananthapuram-4  
Tel: 0471-2447429  
Fax: 0471-2447429  
E.mail: [director.dir.dmg@kerala.gov.in](mailto:director.dir.dmg@kerala.gov.in)  
Web: [www.dmg.kerala.gov.in](http://www.dmg.kerala.gov.in)  
Dated: 20/05/2017

From

The Director of Mining & Geology

To

M/s. Triphy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad  
(Represented by its Partner, Shri. Benny Pathrose)

Sir,

Sub: Mining & Geology - Mines and Minerals - Minor Minerals- Granite Building Stone -  
Preparation and execution of quarrying lease deed - reg.

Ref: 1. Pro.Order No. 95/2017-18/5160/M3/2016/DMG Dated: 20/05/2017  
2. KMMC Rules 2015  
3 Pro.order. No. 826/SEIAA/EC1/2609/2015 dtd. 17/08/2016 of State Environment  
Impact Assessment Authority, Thiruvananthapuram, Kerala

Please refer to the Proceedings Order cited above wherein a lease for Granite (Building Stone) is granted to M/s. Triphy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad - 679 535 (Represented by its Partner, Shri. Benny Pathrose). I request you to prepare three copies of the quarrying lease deed, original on plain paper and two copies of the same in stamped paper worth Rs. 500/- and produce the same before the Geologist, District Office, Palakkad for scrutiny and execution. The date of execution will be entered up by the Geologist at the time of execution. After scrutiny of the quarrying lease deed, the Geologist will inform you the date of execution convenient to him. After execution as per the request of the Geologist stamp duty may be fixed by any District Registrars of the state and he will receive the stamp duty and a certificate of remittance of stamp duty will be entered in the lease deed. A chalan for Rs 47,811/- (Rupees forty seven thousand eight hundred and eleven only) being the security deposit is enclosed herewith duly countersigned. Please affix your signature at the appropriate places before remittance of money in the treasury. The original treasury receipted chalan may also be produced along with the typed copies of the lease deed and the draft form 'H' which is enclosed herewith, before the Geologist, District Office, Palakkad at the time of execution.

Please note that the quarrying lease deed has to be executed within a period of six months from the date on which quarrying lease has been granted and got registered in accordance with the Registration Act, 1908 vide Rules 44 of the Kerala Minor Mineral Concession Rules, 2015. Form 'D' is also enclosed herewith for strict compliance and to report thereof.

Yours faithfully

Encl: as above

DIRECTOR OF MINING & GEOLOGY (I/c)



Copy to -

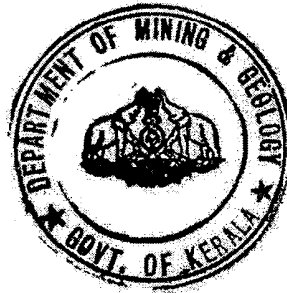
The Geologist, District Office, Palakkad  
(Letter No. DOP/2670/2015/A1 dtd. 30/05/2016)

You are instructed to execute the lease deed as and when it is received. The original survey map is enclosed herewith. **YOUR SEAL AND SIGNATURE SHOULD BE AFFIXED ON THE SURVEY MAP.** Please acknowledge. A copy of the lease deed may be forwarded to this office soon after registration. Ensure that the area under this grant is demarcated and boundary stones fixed before execution of the lease deed.

You are also instructed to obtain and forward the Form D to this office. No movement permits shall be issued before the service of Form 'D' notice, which is a statutory requirement.

You are further instructed to forward photocopies of the registered lease deed to the Director of Mines Safety, Bangaluru Region & District Collector. Also ensure that the lessee has erected notice board and made proper fencing before the execution of lease deed as stipulated in the rules.

**\*[The lease deed may be executed after submitting the copy of Explosive Licence after including the Sy. No. 275/1A3 in the licence, issued by the ADM, Palakkad]**





## PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

**Sub:** Mining & Geology-Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying lease to M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad – 679 535 (Represented by its Partner, Shri. Benny Pathrose)– sanctioned– orders – issued.

- Ref.**
1. Application dt. 20/10/2015 from M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad – 679 535 (Represented by its Partner, Shri. Benny Pathrose).
  2. Letter No.DOP/2670/2015/A1 dtd. 30/05/2016 from the Geologist, District Office, Palakkad
  3. Pro.order. No. 826/SEIAA/EC1/2609/2015 dtd. 17/08/2016 of State Environment Impact Assessment Authority, Thiruvananthapuram, Kerala
  4. Kerala Minor Mineral Concession Rules, 2015.

**No. 95/2017-18/5160/M3/2016/DMG**

**Dated, Thiruvananthapuram 20/05/2017**

### ORDER

A quarrying lease is granted to M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad – 679 535 (Represented by its Partner, Shri. Benny Pathrose) to quarry Granite (Building Stone) over an area of 4.7811 Hectares of land comprised in Survey Nos. 274,275/1A3 of Thirumittacode-II Village, Pattambi Taluk, Palakkad District for 10 (Ten) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, Pattambi and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

1. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
2. Dead rent is realizable under 29(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
3. Surface rent realizable under 29(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
4. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5. The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
8. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to 109000 Metric Tons per year.
9. (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to be extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable). Area of extraction permitted, explosives used (if any), etc.  
(ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.

9/

10. The lessee shall fence the lease area before the commencement of the quarrying operation for preventing accidents by falling of human beings, animals, vehicles or any materials into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general public.
11. The lessee shall leave a distance of 7.5m from the boundaries of adjacent properties including government puramboke land while carrying out quarrying operations.
12. The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology.
13. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the Geologist periodically.
14. The lessee shall operate the quarry in accordance with the condition stipulated in the environmental clearance and mining plan submitted by them.
15. The lessee shall obtain all other statutory licences/clearances/No Objection Certificates from other authorities concerned including Explosive licence, consent from Pollution Control Board and D & O licence from the Local Self Government Department concerned.
16. The lessee shall produce scheme of mining before completion of five years of operation of the quarry.
17. The lessee shall produce a financial guarantee for Rs. 1,19,528/- (Rupees one lakh nineteen thousand five hundred and twenty eight only) as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
18. The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
19. The lessee shall carryout mining operations as per the approved mining plan.
20. The lessee shall renew Environmental Clearance on or before 16/08/2021 for the operation of the quarry for the remaining period.
21. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.

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

Sd/-  
T.K. Ramakrishnan  
DIRECTOR OF MINING & GEOLOGY (I/C)

To

✓ M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad  
(Represented by its Partner, Shri. Benny Pathrose)

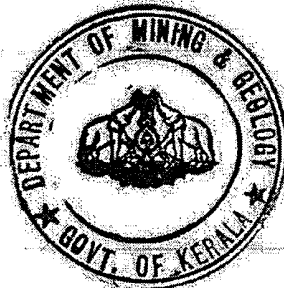
Copy to:

1. The Director of Mines Safety,  
No.5, 100FT, Road, 17<sup>th</sup> Main, Koramangala 4<sup>th</sup> Block  
Bengaluru, Karataka - 560034
2. The District Collector, Palakkad
3. The Geologist, District Office, Palakkad
4. The Tahsildar, Pattambi
5. Stock File (2), File Copy

(BY ORDER)

*[Signature]*  
20/05/2017

SENIOR SUPERINTENDENT



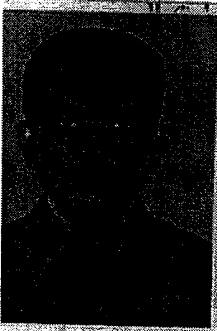
Doc No. 1842/10 Doc No. 11



GOVERNMENT OF KERALA

FORM H  
(See Rule 43)  
QUARRYING LEASE

C 638842



Benny Pathrose



This deed of lease made on this the.....29<sup>th</sup>..... day of May.....2017 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 Shri. Benny Pathrose, Partner, M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad, aged 46 years, son of Shri. M. M. Pathrose resident of Madappillil House, Malayidomthuruthu Post, Kunnathunadu Taluk, Ernakulam District (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.

Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 4.7811 hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of Ten (10) years commencing from the 29/5/2017.....and ending on the 28/5/2027 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the

Witnessed by  
K. B. SAJEEVAN  
Geologist  
State Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

NO. 3065  
VALUE Rs. 500/-  
SOLD TO  
DATED ON

R. SARASWATHY  
Collectorate Vendor  
PALAKKAD




Presented in the office of the Subregistrar, Thrithala at 2.5  
On this the 21<sup>st</sup> day of June 2011 the photograph(s) and  
thumb impression(s) of the applicant(s), Claimant(s) and  
presentant(s) under section 32A and paid a fee of Rupees

Berry Pathrose

Business Malaysia thru him  
and day after tomorrow morning he  
identified by

8/1

Basil. Vellamkondalut <sup>Basil</sup>  S/o Vaseey  
Business Nellimalam. PO

I have satisfied myself as to the character and  
the Party K. K. Sajeewan Biologist District Office  
of the Department of Mining and Geology  
Palakkad he is entrusted for Personal appearance  
as per Sec 84 (1) of Indian Regn. Act 1908  
V  
VISWAMOHANAN

2nd day of June 200

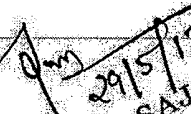
VISWAMOHANAN  
Sub Registrar

Registered as No. 1842 of 2012 in Book...  
Volume 1658 From page 93 to 98  
8 1 sheet

VISWAMOHANAN  
Sub Registrar

Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (here in after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.
3. The lessee/lessees shall pay to the State Government a yearly surface rent equal to the land revenue if any, assessable under the rules for the time being in force, or if the land be the property of Government or in reserve forest then equal to the land revenue plus cess, if any, per hectare of the land the surface whereof shall be occupied or used by the lessee/lessees for any of the purposes of this deed and so in proportion for any area less than one hectare. The said surface rent shall be paid by yearly payments; the first of such payments to be made on or before the last day of the first year of occupation provided always that no such rent shall be paid or demanded in respect of any roads or ways now in existence.
4. The lessee/lessees shall at all times during the currency of this lease keep correct and intelligible books of account showing accurately the quantity of the said minerals extracted and the weight and value of the said mineral sold or exported together with the names of the purchasers or consignees. The lessee shall also maintain a register of employees showing therein separately men, women employed daily and shall at reasonable times allow the competent authority appointed under the rules (hereinafter referred to as "competent authority") or the officer authorised by him to examine the said books of account and the register of employees and to take copies and

Lessor   
29/5/17  
K. K. SAJEEVAN  
Geologist  
District Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

For TRIPUNY GRANITES

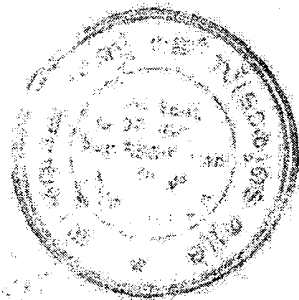
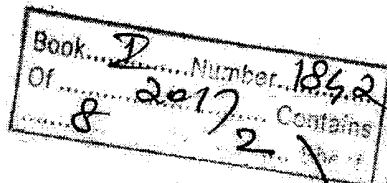
  
Lessee  
Partner

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There is no difference from original  
and duplicate. In this document  
interlineation etc etc.

Circumstances copied by, M. N. K. and anu for  
compared by/Reader PS Sreejith date 8/1  
G. M. N. K. and anu for

2nd day of June 2017 Sub Registrar V/S we  
no. 154  
we



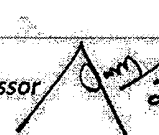



extracts there from. The lessee/lessees shall submit reports in Forms F and G on the specified dates.

5. All sums found due under or by virtue of this deed from the lessee/lessees may be recovered from him jointly and severally from them and his/their properties movable and immovable under the provisions of the Revenue Recovery Act for the time being in force as though such sums are arrears of land revenue or in any other manner as the State Government may deem fit.
6. The lessee/lessees shall at the lessee's/lessees' own expense erect and at all times maintain and keep in repair boundary marks and pillars along the boundaries of the said lands according to the demarcation shown in the plan here to annexed.
7. In cases where explosives are not used for quarrying the lessee shall not carry on or allowed to be carried on any quarrying operations at or to any points within a distance of 75 metres from any railway line except with the previous written permission of the Railway Administration concerned; and any bridge on National Highway or 50 metres from any reservoir, tanks, canals, rivers, bridges, public roads, other public works, residential buildings, the boundary walls of places of worship, burial grounds, burning ghats or any Government protected monuments or forest lands which do not conform to the category of wildlife forests except with the previous permission of the authorities concerned or State Government or competent authority or any other officer authorised by the State Government in this behalf.

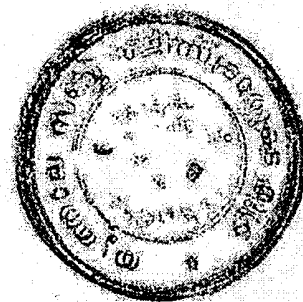
In cases where explosives are used for quarrying, the lessee shall not carry on or allowed to be carried on any quarrying operations at or to any points within a distance as specified by the Kerala State Pollution Control Board, from time to time, for granting Consent to Operate for such quarrying as approved by the Government from any railway line, bridge, reservoir, tanks, residential buildings, Government protected monuments, canals, rivers, public roads having vehicular traffic, other public works or the boundary walls of places of worship or 50 metres from any burial grounds or burning ghats or village roads or forest lands which do not conform to the category of wildlife forests.

The above said distances shall be measured in the case of a railway, reservoir or canal horizontally from outer edge of the cutting or outer edge

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**K. K. SAJEEVAN**  
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For TRIPLAX GRANITES  
Lessee  29/5/17  
Partner

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Of .....2417..... Contains  
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of the bank, as the case may be and in the case of a building horizontally from the plinth thereof.

For the purposes of this clause the expression 'railway' and 'railway administration' shall have the same meaning as defined in sub-sections (4) and (6) of section 3 of Indian Railway Act, 1890 (IX of 1890).

8. The sides of open workings shall be sloped, stepped or secured by the lessee in such a manner as to prevent slope failure, when an open working is worked in steps, steps shall be of sufficient breadth in relation to their height to secure safety. In open workings trees liable to fall and all loose ground and material shall be removed by the lessee sufficiently far from the edge or otherwise made source in order to prevent danger to persons employed in the quarry.
9. If a working place is found to be unsafe all persons shall be withdrawn by the lessee/lessees immediately from the dangerous area and all access to such working place except for the purpose of removing the danger of saving life shall be prevented by securely fencing the full width of all entrances to the place.
10. The lessee/lessees shall at all reasonable times allow any officer authorised by the Central Government or by the State Government in that behalf to inspect the said lands and the buildings and plants erected thereon and the lessee/lessees shall assist such persons in conducting the inspection and afford them all information they may reasonably require, and shall conform to and observe all orders which the Central and State Governments as the result of such inspection or otherwise, may from time to time pass.
11. The lessee shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.
12. The lessee/lessees shall not assign or underlet the said lands or any part thereof or the rights or privileges, therein hereby granted or any of them without the previous permission in writing of the State Government / competent authority.
13. Where the lease or any right, title or interest therein has been assigned, sublet or transferred as provided in rule 45 read with condition 12, then the person in whose favour such assignment, sublease or transfer has been

Lessor

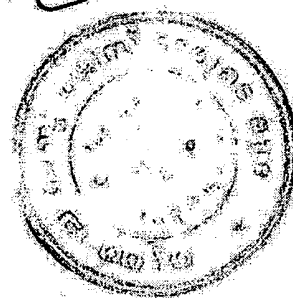
29/5/17  
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District Office of the Department of  
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Pin-678 014.

For TRUTHY GRANNES

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Partner

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made shall be responsible for implementing the provisions of the various labour laws applicable, from time to time, to the quarry.

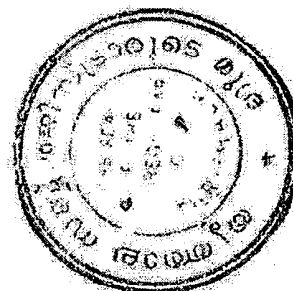
14. The lease may be surrendered by the lessee/lessees at any time after 3 months notice in writing to the State Government/competent authority; Provided the lessee/lessees has/have paid all sums due on account of the lease: Provided further that if the lessee/lessees elects/elect to determine this lease before the expiry of the term of the lease, shall pay in addition to other dues a sum equal to the dead rent payable for the remaining part of the term of the lease deed.
15. If the lessee/lessees shall be desirous of taking a further lease of the said lands he/they shall give three months' previous notice in writing of such desire to the State Government/competent authority and if the lessee/lessees has/have duly observed all the conditions of this lease, the State Government/competent authority may agree to renew the lease for such further term and on such terms and conditions as the State Government/competent authority may determine which shall be in accordance with the provisions of these rules.
16. If the lessee/lessees shall at any time during the said term use the said lands or any part thereof in any manner other than as authorised by this lease or fail to carry on quarrying operations continuously without sufficient cause of which the State Government/competent authority shall be the judge or shall commit a breach of any of the conditions of this lease it shall be lawful for the State Government/competent authority to cancel this lease and take possession of the said lands or the alternative to receive from the lessee/lessees such penalty not exceeding Rs. 25,000 for the breach as the State Government/competent authority may fix.
17. If at the expiration of three calendar months after the expiry of the lease or its sooner determination, there shall remain in or the said lands, any engines, machinery, plant, buildings, structures and other works, erections and conveniences the said minerals or other property which the lessee is/lessees are entitled to remove from the said lands, the same shall, if not removed by the lessee/lessees within one calendar month after notice in writing requiring their removal be given to the lessee/lessees by the State Government/competent authority be deemed to become the property of the

Lessor  
29/5/12  
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Lessee  
29/5/12

Book... 2 ... Number... 1842  
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State Government in such manner as they may deem fit without liability to pay any compensation or to account to the lessee/lessees in respect thereof.

18. This lease subject to all rules and regulations which may from time to time be issued by the State Government regulating the working of the quarries and other matters affecting safety, health and convenience of the lessee's/lessees' employees or of the public, whether under the Indian Mines Act or otherwise.
19. The lessee/lessees shall without delay send to the District Collector and the competent authority or the officer authorised by him in this regard report of any accident causing loss of life or serious bodily injuries or seriously affecting or endangering life or property which may at any time occur at or in the said lands in the course of operations under this lease.
20. The lessee/lessees shall furnish such reports and returns relating to output, labourers employed and other matters as the State Government may prescribe.
21. The lessee/lessees shall make and pay such reasonable compensation as may be assessed by lawful authority in accordance with the law in force on the subject for all damage, injury or disturbance which may be done by him/them in exercise of the powers granted by this lease and shall indemnify and shall keep indemnified fully and completely the State Government against all claims which may be made by any person or persons in respect of any such damage, injury or disturbance and all costs and expenses in connection therewith.
22. Any condition prescribed in the Kerala Minor Mineral Concession Rules, 2015 but left out in this lease which may be found applicable to the lessee / lessees shall be treated as binding on the lessee/lessees.
23. In this case anticipated royalty for the mineral at rate of Rs. 24/- (Rupees Twenty Four Only) per ton for a period of one year is Rs. 26,16,000/- (Rupees twenty six lakh and sixteen thousand only)
24. Dead rent realized at the rate of I<sup>st</sup> year – NIL II<sup>nd</sup> year - Rs. 300/- (Rupees three hundred only) and III<sup>rd</sup> year onwards - Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time. Surface rent at the rate of Rs 200/- (Rupees two hundred only) per hectare for one year is Rs. 956/- (Rupees nine hundred and fifty six only)

Lessor

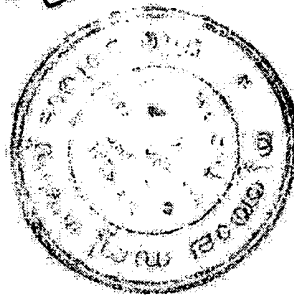
29/5/17  
K. K. SAJEEVAN  
Geologist  
District Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

For TRUTHY GRANITES

Lessee

Partner

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and security deposit is Rs 47,811/- (Rupees forty seven thousand eight hundred and eleven only)

### SCHEDULE OF DESCRIPTION OF LAND

District	: Palakkad
Taluk	: Pattambi
Village/Amsom	: Thirumittacode-II
Survey Nos. of the Area	: 274, 275/1A3
Area in Hectares	: 4.7811 Htr

### Bounded by Survey No:

On the North by	: Sy No. 274
On the East by	: Sy No. 275/1A3
On the South by	: Sy No. 274
On the West by	: Sy No. 274

In witness whereof the parties hereto have set their hands here unto on the day and year first above written.

Signed by.....  
for and on behalf of the Government of Kerala

**K. R. SAJEEVAN**  
Asst. Geologist  
District Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

In the presence of

(1) **Sunil Kumar R**  
Asst. Geologist  
Mining and Geology dept, Palakkad

(2) **Vinod. M. D.**

Asst. Geologist

Mining and Geology Dept. Palakkad

**[Signature]**  
29/5/17

**[Signature]**  
29/05/2017

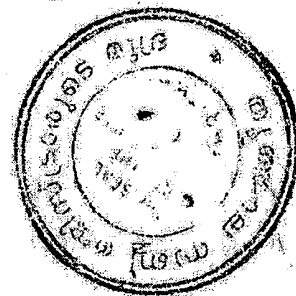
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**K. R. SAJEEVAN**  
Asst. Geologist  
District Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

For TRIPTI GRANITES

Lessee  
Partner

Book... 2 ... Number... 1842  
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For TRIPTY GRANITES

Signed by.....

Partner

for and on behalf of the lessee/lessees

In the presence of

- (1) Elkhose Kurickose  
Kutichivakudiy (91)  
Donnaka P.O.  
Erangulam (Dist)

29/5/17

- (2) Basil Varghese  
Vellam Kandanthil,  
Nellimattom P.O.  
Gonakulam (Dist)

29/5/17

Lessor

29/5/17  
K. K. SAJEEVAN

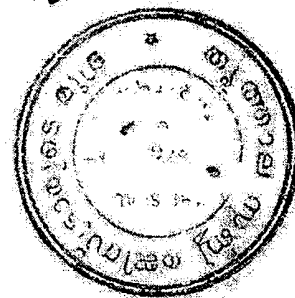
Geologist  
District Office of the Department of  
Mining and Geology, Palakkad  
Pin-678 014.

For TRIPTY GRANITES

Lessee

Partner

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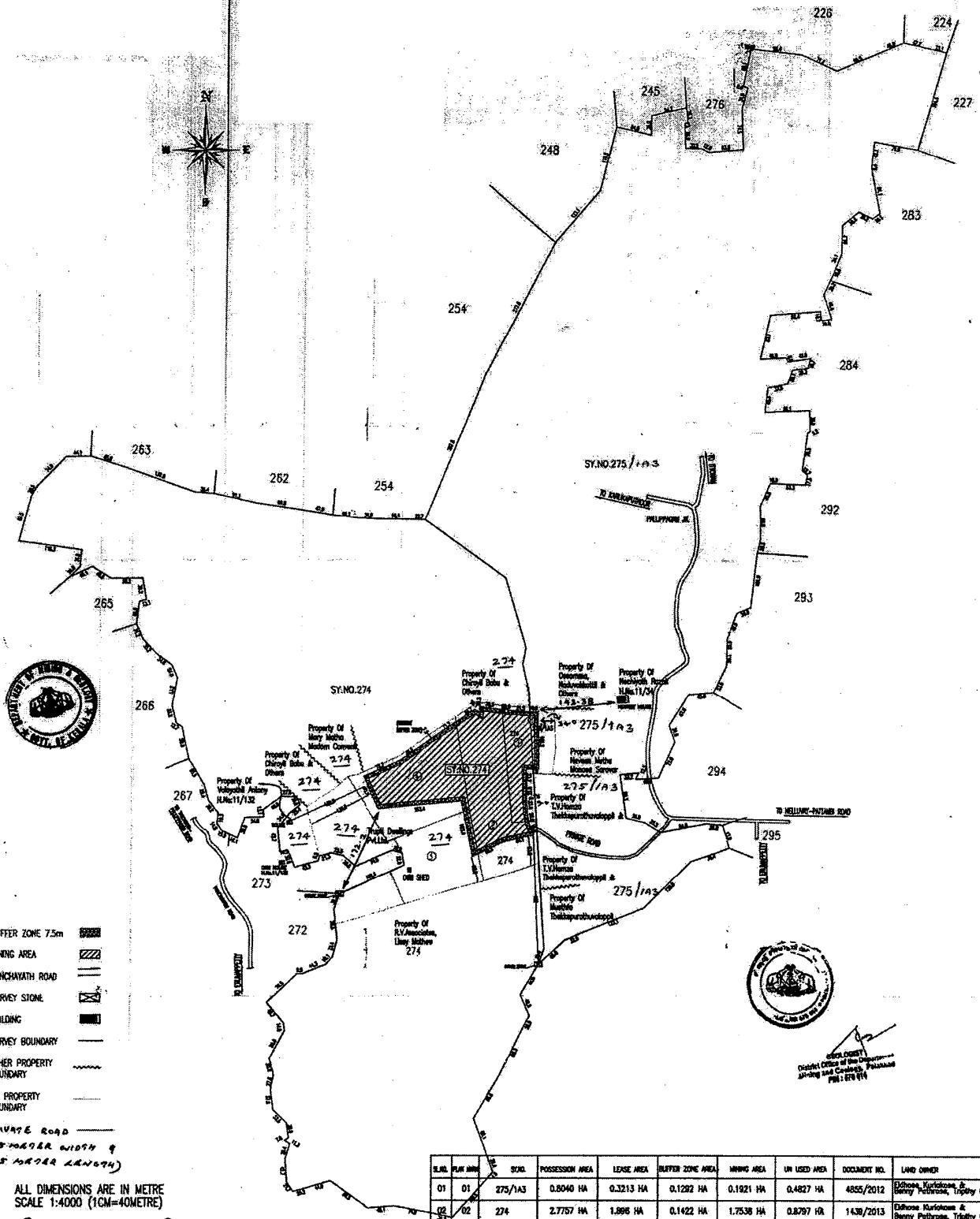


DISTRICT  
TALUK  
VILLAGE

PALAKKAD  
PATTAMBI  
THIRUMITTACODE-II

SY NO  
DESOM

274, 275  
CHAZHIYATTIRI



- BUFFER ZONE 7.5m
- MINING AREA
- PANCHAYATH ROAD
- SURVEY STONE
- BUILDING
- SURVEY BOUNDARY
- OTHER PROPERTY BOUNDARY
- ON PROPERTY BOUNDARY
- PRIVATE ROAD

(7.5 METRE WIDTH &  
275 METER LENGTH)

ALL DIMENSIONS ARE IN METRE  
SCALE 1:4000 (1CM=40METRE)

(Handwritten text in Malayalam script)

S.NO.	PLAN NO.	SY. NO.	POSSESSION AREA	LEASE AREA	BUFFER ZONE AREA	MINING AREA	UN USED AREA	DOCUMENT NO.	LAND OWNER
01	01	275/1A3	0.8040 HA	0.3213 HA	0.1292 HA	0.1921 HA	0.4827 HA	4855/2012	Edhose Kurukose & Benny Padmanabhan, Tripti Granites
02	02	274	2.7757 HA	1.896 HA	0.1422 HA	1.7538 HA	0.8797 HA	1430/2013	Edhose Kurukose & Benny Padmanabhan, Tripti Granites
03	03	274	1.0158 HA	0.8322 HA	0.1283 HA	0.7029 HA	0.1836 HA	1971/2013	Akin Isaac & Benny Padmanabhan, Tripti Granites
04	04	274	2.6103 HA	1.6513 HA	0.2953 HA	1.3580 HA	0.9580 HA	4061/2009	Mathew M. Padmanabhan, Tripti Granites
05	05	274	1.9952 HA	0.0803 HA	0.0569 HA	0.0234 HA	1.9148 HA	4063/2009	Mathew M. Padmanabhan, Tripti Granites
TOTAL			09.201 HA	4.7811 HA	0.7629 HA	4.0282 HA	4.4199 HA		



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VILLAGE OFFICER  
THIRUMITTACODE - II

# **ANNEXURE NO. 5**



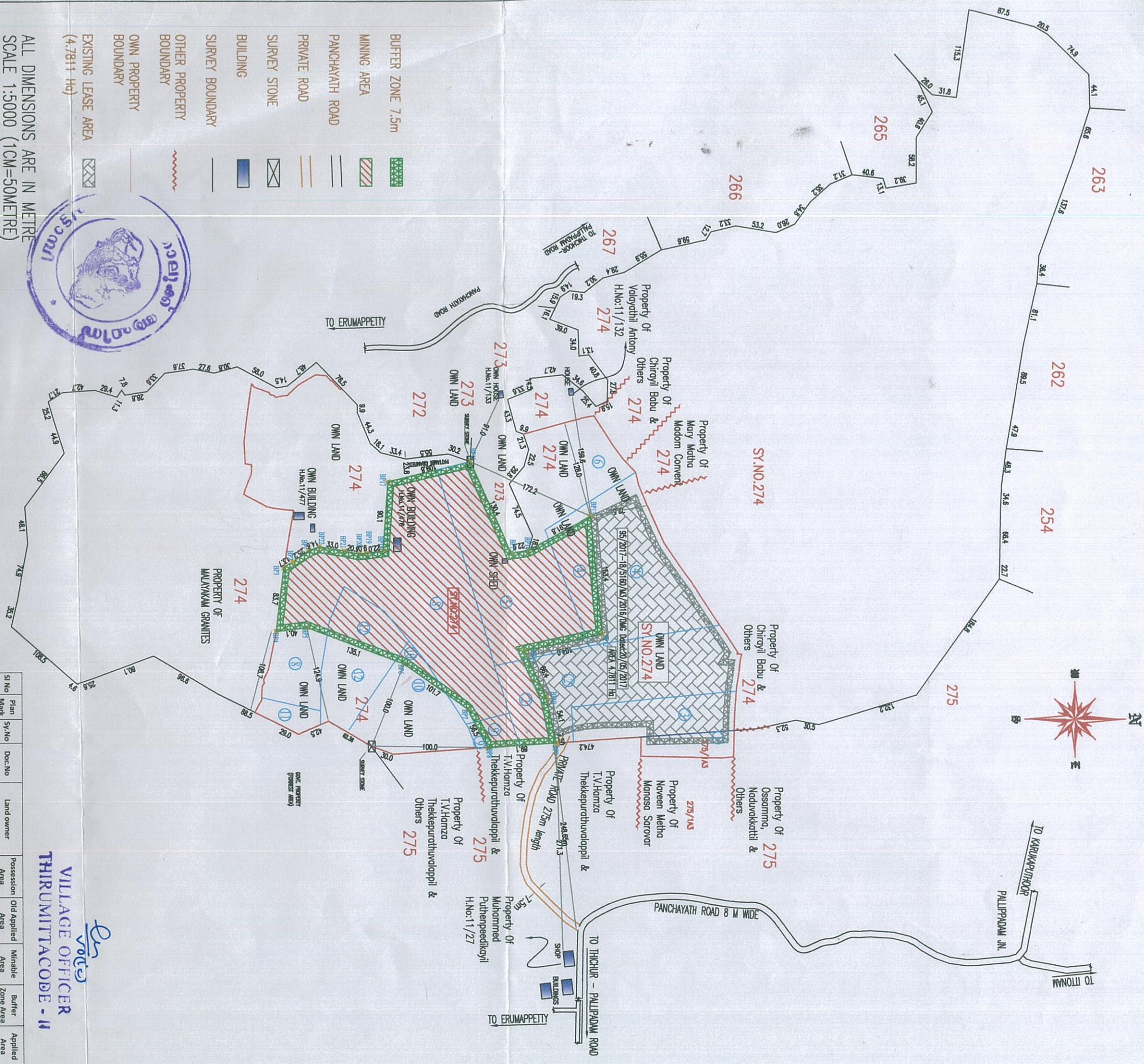
(No: 353/2017)

DISTRICT : PALAKKAD  
TALUK : PATTAMBI  
VILLAGE : THIRUMITTACODE II

SURVEY MAP

SY.NO.  
DESOM

: 274  
: CHAZHIVATTIRI



ALL DIMENSIONS ARE IN METRE  
SCALE 1:5000 (1CM=50METRE)

BP NO	LATITUDE	LONGITUDE	BP NO	LATITUDE	LONGITUDE
1	10°42'33.88"N	76°9'47.11"E	12	10°42'45.95"N	76°9'51.80"E
2	10°42'33.13"N	76°9'47.50"E	13	10°42'45.91"N	76°9'46.75"E
3	10°42'32.77"N	76°9'47.73"E	14	10°42'43.17"N	76°9'47.97"E
4	10°42'32.20"N	76°9'50.42"E	15	10°42'42.42"N	76°9'48.01"E
5	10°42'33.50"N	76°9'50.38"E	16	10°42'41.04"N	76°9'43.96"E
6	10°42'37.47"N	76°9'52.31"E	17	10°42'37.50"N	76°9'44.49"E
7	10°42'39.97"N	76°9'54.49"E	18	10°42'37.03"N	76°9'47.42"E
8	10°42'40.68"N	76°9'56.21"E	19	10°42'36.32"N	76°9'47.45"E
9	10°42'43.58"N	76°9'56.26"E	20	10°42'36.02"N	76°9'47.45"E
10	10°42'43.34"N	76°9'54.29"E	21	10°42'35.37"N	76°9'47.25"E
11	10°42'42.61"N	76°9'52.23"E	22	10°42'34.33"N	76°9'46.98"E

Owner's Sign

TAHSILDAR  
PATTAMBI



VILLAGE OFFICER  
THIRUMITTACODE - II

Sl No	Plan	Sy.No	Doc.No	Land owner	Possession Area	Old Applied Area	Minable Area	Buffer Zone Area	Applied Area
1	2	274	1439/2013	Eidhose Kuriyakose & Benny	2.7773	1.8960	0.5546	0.1368	0.6914
2	4	274	4061/2009	Matthew M Pathrose, Triptiy	2.7773	1.8960	0.5546	0.1368	0.6914
3	4	274	4061/2009	Matthew M Pathrose, Triptiy	2.7773	1.8960	0.5546	0.1368	0.6914
4	8	274	629/2014	Ussy Mathew, RV Associate	4.6176		3.7638	0.4126	4.1764
5	9	274	4421/2015	Jerin K Joy, Kutichirakudiyil	0.2023		0.1231	0.0552	0.1783
6	10	274	4422/2015	Jerin K Joy, Kutichirakudiyil	1.2901		0.0711	0.0534	0.1245
7	12	274	4420/2015	Eidhose Kuriyakose, Kutichirakudiyil	1.2100		0.4782	0.0724	0.5506
TOTAL				14 - 7 to 28	14.202248	3.6276 Ha	7.1329 Ha	1.0811 Ha	8.2140 Ha

Signature of Village Officer, Thirumittacode II

Signature of Tahsildar, Pattambi