

# **COMPLIANCE REPORT**

**APRIL 2021 - SEPTEMBER 2021**

**SRI. GEORGE KOCHUPARAMBIL**

**QUARRY PROJECT**

**IDUKKI DISTRICT**

**KERALA**



United Granites & Metals  
Vazhithala P.O., Thodupuzha, Kerala, India

Business Relation: 04862 274694, 8281885888  
mail : unitedgranitesandmetals@gmail.com



Dt.19-11-2021

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

Ref :- File No. 1137/EC/SEIAA/KL/2017

Sub :- Environment Clearance – Quarry project at Manakkad  
Village, Thodupuzha Taluk, Idukki District, Kerala – Compliance  
Report – First half - Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for  
12.2987 Ha. by order No. 1137/EC/SEIAA/KL/2017 dated 17-03-2018 by State  
Environmental Impact Assessment Authority, Kerala. The compliance report of **First  
half (April 2021 – September 2021)** to the specific and general conditions of the  
Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,  
For M/s UNITED GRANITES AND METALS

Mr. GEORGE KOCHUPARAMBIL



Copy to:-

1. The Member Secretary  
State Environment Impact Assessment Authority (SEIAA),  
Thiruvananthapuram, Kerala.

Encl: - As Above



**COMPLIANCE REPORT  
TO  
THE CONDITIONS  
OF**

**ENVIRONMENTAL CLEARANCE ORDER  
NO: 1137/EC/SEIAA/KL/2017  
DATED: 17.03.2018**

**BY  
STATE ENVIRONMENT IMPACT ASSESSMENT  
AUTHORITY (SEIAA), KERALA  
FOR  
BUILDING STONE QUARRY  
(MINOR MINERAL MINING) PROJECT**

**AT  
MANAKKAD VILLAGE, THODUPUZHA TALUK,  
IDUKKI DISTRICT  
KERALA**

**BY  
SRI. GEORGE KOCHUPARAMBIL  
M/S UNITED GRANITES AND METALS  
IDUKKI DISTRICT, KERALA**

**INDEX**

Sl. No.	Particulars	Page No.
1.	Introduction	7
2.	Brief of the Project	8
3.	Compliance Report – Specific conditions – Part A	9
4.	Compliance Report – General conditions – Part B	11
5.	Plates	35
6.	Annexure	46

**TABLES**

Sl. No.	Particulars	Page No.
1.	Environmental Monitoring Cell (EMC)	12
2.	Details of performed activities under CSR	15
3.	Details of statutory approvals	23
4.	Details of advertisement published in news papers	26

## **LIST OF PLATES**

Plate No.	Particulars	Page No.
1.	Photograph of Rain Water Collection pond	36
2.	Photograph of Trees along the road side	36
3.	Photograph of 28 KL Water tank with sprinkler	37
4.	Photograph of water mist sprinkling.	37
5.	Photograph of water spraying at unloading point	38
6.	Photograph of Boundary pillars	38
7.	Photograph of Fencing by barbed metal wire at lease boundary.	39
8.	Photograph of Sign board in the project site.	39
9.	Photograph of Tarred road to the quarry.	40
10.	Photograph of Construction of supportive wall.	40
11.	Photograph of Topsoil protection.	41
12.	Photograph of Bench system in the quarry	41
13.	Photograph of Drainage system in the quarry site	42
14.	Photograph of metallic board for displaying the details of EC order and extent of lease area.	42
15.	Photograph of plants being nurtured	43
16.	Solar light installed in public road	44
17.	Arch shaped check dam for collecting rain water outside lease area	44
18.	Fencing around Rain water harvest pond	45
19.	Blasting mats in use	45

**LIST OF ANNEXURES**

Annexure No.	Particulars	Page No.
1.	Copy of consent to operate from pollution control board	47
2.	Copy of New E C order	55
3.	Copy of Explosive License issued by the Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	73
4.	Copy of Panchayat License for quarry operations	81
5.	Copy of lease order form Director of Mining and Geology	82
6.	Copy of EMC Minutes Report	91
7.	Copy of the affidavit	92
8.	Copy of advertisement in two local news paper	93
9.	Copy of Voucher of plants purchased	94
10.	Copy of test report of ambient air	98
11.	Copy of test report of ambient sound level	102
12.	Copy of test report of drinking water	106
13.	Copy of certificate of mining mate	108

**INTRODUCTION**

The quarry project of **George Kochuparambil** is situated at survey No. 354/4, 354/5, 355/1 pt, 351/1 pt, 350, 352/1pt, at Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala

The quarry project was accorded with environmental clearance by State Environmental Impact Assessment Authority on 17-03-2018. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The second half Compliance report to the specific conditions and general conditions of the Environmental Clearance order for the period of **April 2021 – September 2021** is being submitted.

**BRIEF OF THE PROJECT**

<b>PROJECT DETAILS</b>	
File No.	1137/EC/SEIAA/KL/2017
Name /Title of the project	Quarry (Minor Mineral) project of Mr. George Kochuparambil
Name and address of project proponent.	Mr. GEORGE KOCHUPARAMBIL Kochuparambil House, Vazhithala P.O., Thodupuzha, Idukki, Kerala-685583. E-mail :- <a href="mailto:unitedgranitesandmetals@gmail.com">unitedgranitesandmetals@gmail.com</a>
Owner of the land	Private own land
Survey No. District/ Taluk/ and Village etc.	Re-Survey No. 354/4, 354/5, 355/1pt., 351/1pt., 350, 352/1pt., Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala
Category/Sub Category and Schedule	Category B / B2 & Schedule 1(a)
Brief description of the project.	The building Stone Quarry (Minor Mineral) mining project of Mr. George Kochuparambil is situated at Re-Survey No. 354/4, 354/5, 355/l pt., 351/1pt., 350, 352/1pt., Manakkad Village, Thodupuzha :Taluk, Idukki District, Kerala for an area of 12.2987 hectares.The land for the proposed quarry is private owned land and the land is possessed in the name of Mr. George Kochuparambil. The targeted production of mine will be 4,00,000 MTA. The estimated project cost will be Rs. 12 Crores. The expected life of mine estimated will be of about 16 years. The mining operation will be carried out by opencast semi-mechanized method as per the approved Mining
GPS Co-ordinate	Latitude (N) = 09°53'32.72"N to 09°53'48.09"N Longitude(E) = 76°38'21.51"E to 76°38'36.07"E
Details of Authorized Signatory and address for correspondence	Mr. GEORGE KOCHUPARAMBIL Kochuparambil House, Vazhithala P.O., Thodupuzha, Idukki, Kerala-685583. E-mail :- <a href="mailto:unitedgranitesandmetals@gmail.com">unitedgranitesandmetals@gmail.com</a>
<b>LAND DETAILS</b>	
Extent of area in hectares	12.2987 hectare
Is the property forest land/ Govt. land/own land/patta land	Private own land



**COMPLIANCE REPORT  
(SPECIFIC CONDITIONS)  
PART A**

**PART – A – SPECIFIC CONDITIONS**

<b>01</b>	If any rare, endemic and threatened plant species are noticed, they shall be properly protected in situ or transplanted to a suitable site inside the lease area.	<b>Noted</b>
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***Compliance:***

The project proponent had conducted a bio diversity study and submitted the report at State Environmental Impact Assessment Authority (SEIAA), Kerala. The project proponent has been planting various species of plants including endemic in the proposed project.

**COMPLIANCE REPORT**  
**(GENERAL CONDITIONS)**  
**PART B**

**PART – B – GENERAL CONDITIONS**

<b>01</b>	Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.	<b>Complied</b>
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**Compliance:**

Rain water harvesting is a mitigation measure prescribed in Environment Management Plan. To collect rain water from the entire project land, the proponent has developed rain water harvesting pond in the quarrying area. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for containing dust emission. The photograph showing the rain water collection pond in the project area is attached in **Plate No.1**. Protection wall around Rainwater Harvesting pond no.3 is under construction as attached in **Plate No. 10**. Arch shaped check dam for collecting rain water outside lease area is attached as **Plate No. 17**. Fencing around RWH pond 2 is attached as **Plate No. 18**.

<b>02</b>	Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.	<b>Complied</b>
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**Compliance:**

The project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. Sonu Jose as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below in **Table No. 1**. The recent EMC minutes report is attached as **Annexure No. 6**.

**Table 1 - Environmental Monitoring Cell (EMC)**

Sl. No.	Post	Name
<b>1.</b>	Head of monitoring cell	Sri. Sonu Jose
<b>2.</b>	In charge	Mr. Baby P Poulouse
<b>2.</b>	Member	Joseph K Y
<b>3.</b>	Member	Mr. Prasanth PP
<b>4.</b>	Member	Mr. Jomy joy
<b>5</b>	Member	Mr. John Peter

<b>03</b>	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.	<b>complied</b>
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**Compliance:**

The green belt can reduce the adverse effect of mining industry. To reduce air and noise pollution, the project proponent has planted 600 various avenue trees along either side of the road. There are natural vegetations including trees, shrubs, herbs and climbers also present in the sides of road and parking area. Photographs of avenue trees planted in the road side are given in **Plate No. 2**. Plants bills are attached as **Annexure No. 9**.

<b>04</b>	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	<b>Complied</b>
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**Compliance:**

The project proponent has installed solar street lights to use maximum possible solar energy generation and utilization in the project site for the external lighting purpose in the haul road as well as worker's residential areas. The project proponent also installed water geysers with solar panels at the canteen and worker's rest house to use maximum renewable energy to reduce electrical consumption from KSEB. Photograph of Solar light installed in public road is attached as **Plate No. 16**.

<b>05</b>	Sprinklers shall be installed and used in the project site to contain dust emissions.	<b>Complied</b>
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**Compliance:**

To reduce air pollution and to prevent dust emissions from the road while transportation of materials, the project does splashes the haulage road and critical areas with the help of vehicles in regular intervals. The sprinklers are also installed in the project site. This help to suppress dust during the time summer season. Photograph of a new water tanker 28000 litres sprinklers is shown in **Plate No. 3**.

The Photograph of the mist sprinkler is provided at **Plate No.4**. Water is sprayed in mist form at unloading point at crusher hopper shown in **Plate No.5**.

<b>06</b>	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	<b>Noted</b>
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**Compliance:**

As part of eco restoration, the project proponent has started to plant various saplings within the project area. The mine closure plan will be done at own cost of project proponent as agreed in the proposal. The photograph of plantation is attached as **Plate No. 15**

<b>07</b>	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the EC.	<b>Noted</b>
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**Compliance:**

The project proponent will retain 10 percent of total excavated pit as rain water storage area after closure of the mine. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the proponent has initiated steps to plant indigenous species as part of concurrent eco restoration.

<b>08</b>	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	<b>Complied</b>
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**Compliance:**

The project proponent has carried out many activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER). The main activities were in the sectors like education, health care, Environment sustainability etc. The detail of CSR provided in the period is mentioned in the **Table No.2**.

**Table No.2 – CSR/CER Details**

Sector	Activities	Beneficiaries	Amount Spent In Rs.
Health	MEDICAL HELP	Valsa Mohanan	20,000.00
	MEDICAL HELP	Palliative Care	51,000.00
	MEDICAL HELP	Athira Venugopal	5,000.00
	MEDICAL HELP	Salini Charly	17,000.00
	MEDICAL HELP	Annie James	10,000.00
	MEDICAL HELP	Mary Thomas	5,000.00
	MEDICAL HELP	Palliative Care	50,000.00
	MEDICAL HELP	Palliative Care	51,000.00
	MEDICAL HELP	Sunny C L	25,000.00
	MEDICAL HELP	George Varghese	25,000.00
	MEDICAL HELP	Vazhakulam	20,000.00
	MEDICAL HELP	Bindhu Binu	10,000.00
	MEDICAL HELP	Mary Thomas	4,000.00
	MEDICAL HELP	Palliative Care	48,000.00
	MEDICAL HELP	Sasi C A	10,000.00
	MEDICAL HELP	Valsala	10,000.00
	MEDICAL HELP	Santhosh	5,000.00
	MEDICAL HELP	Mercy Thomas	3,000.00
	MEDICAL HELP	Palliative Care	49,000.00
	MEDICAL HELP	Mary Thomas	3,000.00
	MEDICAL HELP	Shaji Johny	15,000.00
	MEDICAL HELP	Paliative Care	50,000.00
Education	Education Help	Priya B S	25,000.00
	Mobile Phone	Ajanas C M-1nos	7,300.00
	Mobile Phone	Shibu Paul-1nos	10,000.00
	Educational Help	Priya B S	10,000.00
	Educational Help	Chacko	1,00,000.00
	Mobile Phone -Online Study- - 5 nos	Mobile Phone -Online	34,500.00

	Mobile Phone -Online Study- 5nos	Mobile Phone -Online Study Help	31,000.00
	Mobile Phone -Online Study- 2nos	Mobile Phone -Online Study Help	11,600.00
	Mobile Phone -Online Study- 1 Nos	Mobile Phone -Online Study Help	9,700.00
	Mobile Phone -Online Study- 2 nos	Mobile Phone -Online Study Help	15,600.00
	Educational Help	Priya B S	25,000.00
	Educational Help	Dona Tomy	60,000.00
	Mobile Phone -Online Study Help	Mobile Phone -Online Study-1 Nos	9,000.00
	Mobile Phone -Online Study Help	Collectorate Department - Onos	60,000.00
Social	Covid Relief-Kit Supply	Manakaddu Grammapanchayth	1,53,730.00
	Covid Relief-Quarantine Center	Manakaddu Grammapanchayth	25,000.00
	CMDRF	Chief Minister-Kerala	5,00,000.00
	Covid Relief-Quarantine Center	Manakaddu Grammapanchayth	25,000.00
	Thodupuzha Block Panchayth	Covid Relief	10,000.00
	Manakaddu Grammapanchayth	Covid Relief/Onam-Kit Supply	16,54,100.00
Infrastructure Development	Maintenance Works	PHC Puthupariyram	1,89,302.00
	Material Supply	Anil M N	1,67,000.00
	<b>Total</b>		<b>36,18,832.00</b>



<b>09</b>	The lease area shall be fenced off with barbed wires to a maximum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings etc) shall be protected at all times and shall be conspicuous.	<b>Complied</b>
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**Compliance:**

The project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. All the boundary indicators are protected at all times and clearly visible at any time in a noticeable way. Photograph of Boundary pillars is attached as **Plate No. 6**. Photograph of Fencing is attached as **Plate No. 7**. Photograph of Signboard is shown in **plate No. 8**.

<b>10</b>	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	<b>Complied</b>
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**Compliance:**

The alarm can intimate the general public and labours that the blasting is going to happen. As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms (Siren) in the quarry site. Siren is blown before and after blasting regularly. The blasting timings are displayed in the prominent area by way of caution board.

<b>11</b>	Control measures on noise and vibration prescribed by KSPCB should be implemented.	<b>Complied</b>
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**Compliance:**

To reduce noise level in the project site, the project proponent has implemented mitigate measures. The major noise generating sources from the mining activity is working machineries, drilling, blasting and plying of vehicles. The following control measures are undertaken to bringing down the noise levels:-

- Proper maintenance of machinery and equipments.

- The machineries like rock breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- Personal protective devices i.e., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- The mining activity held in day time only.

### **Blast vibrations and control measures**

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.
- ❖ Optimum delay sequence and stem to column ratio is maintained to minimize the ground vibration intensity.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

<b>12</b>	Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	<b>complied</b>
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### ***Compliance:***

To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution.

<b>13</b>	Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.	<b>Complied</b>
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### ***Compliance:***

The blasting is done using controlled manner by using ordinary delayed detonators and NONEL technology. All blasting activities are carrying out with the specified regulations of explosive department and other concerned agency. All blasting are under careful supervision of qualified persons.

<b>14</b>	A licensed person should supervise/control the blasting operations.	<b>Complied</b>
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**Compliance:**

The project proponent has appointed mining mate and mining managers as licensed persons in the project site for supervise/control exploitation of minor minerals including blasting at the project site. Certificate of mining mate is attached as **Annexure No. 13**.

15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	<b>Complied</b>
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**Compliance:**

To contain dust emissions and for the trouble free transportation of materials, the project proponent has maintaining the access road to the quarry site. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is regularly maintaining the access road in a good manner. Photograph of Access Road is attached as **Plate No.9**.

16	Overburden materials should be managed within the site and used for reclamation of mine pits as per mine closure plan/ specific conditions.	<b>Complied</b>
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**Compliance:**

The overburden and topsoil extract during the time of mining, these natural resources is staked in the project site. This is being used for plantation, haulage roads and land filling in the mining area. To prevent soil erosion grass is planted on the overburden and topsoil. Photograph of Topsoil protection by creepers and fodder grass is attached as **Plate No. 11**.

17	Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific conditions.	<b>Being complied</b>
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**Compliance:**

To enhance safety and conserve environment, the project proponent extracted the minerals by creating benches. The benches will not exceed 5 meters of

height and the width of the bench will have minimum of 5 meters. Photograph of Benches is attached as **Plate No. 12.**

<b>18</b>	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	<b>Noted</b>
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**Compliance:**

The project proponent is using mat during blasting time in order to prevent fly rock. The explosive is used under the supervision of qualified person for controlled blasting. The project proponent is using NONEL technology. Therefore there is no issue with fly rock in the community. The photograph of blasting mat is attached as **plate No. 19.**

<b>19</b>	Maximum depth of mining from general ground level at site shall not exceed 10m.	<b>Complied</b>
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**Compliance:**

The project proponent is following the approved mining plan for the exploitation of building stone. Therefore mining depth does not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

<b>20</b>	No mining operations should be carried out at places having a slope greater than 45 <sup>0</sup> .	<b>Noted</b>
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**Compliance:**

No mining operation is carried out with a slope greater than 45<sup>0</sup>.

<b>21</b>	Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	<b>complied</b>
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**Compliance:**

To reduce the impact of sound to the labours in the unit, the project has provided ear plugs. The crushing plant is enclosed in an acoustic enclosure. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project is trying to enhance the vegetative cover by planting more tree saplings.

22	The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc.	<b>complied</b>
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**Compliance:**

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, safety shoes, gloves, etc. to the labours in working site as part of safety.

23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	<b>Complied</b>
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**Compliance:**

The project proponent ensured that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent has constructed drains with clarifiers in the lower slopes of the project area for storm water management. The clarifiers prevent the quarry wastes entering in to the public stream. Photograph of drainage is attached as **Plate No. 13**.

24	The transportation of minerals should be done in covered trucks to contain dust emissions.	<b>complied</b>
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**Compliance:**

The project proponent assures the trucks are covered before it leaving the project site to arrest the dust emission while transportation of materials.

25	The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.	<b>Being complied</b>
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**Compliance:**

The project proponent has been planting various saplings in the project area as a compensation of loss of trees while clearing the land for mining. Tree plantation is a continuous programme.

26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	<b>Noted</b>
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**Compliance:**

There was no spent oil stock to dispose during this period. The used oil has been disposing through an agency approved by Kerala State pollution Control Board.

27	Explosives should be stored in magazines in isolated place specified and approved by the explosives department.	<b>complied</b>
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**Compliance:**

As per the stipulation of competent authority, the project proponent has storing the explosives in magazine. The magazine was situated in an isolated place specified and approved by the explosives department. Copies of magazine licences are attached as **Annexure No. 3**.

28	A minimum buffer distance of 100m meter from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	<b>complied</b>
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**Compliance:**

To prevent possible fly rock and vibration to nearby houses, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The project has left 220 meter distance to the nearest house from the boundary of mining area.

<b>29</b>	100 m buffer distance should be maintained from forest boundaries.	<b>Noted</b>
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**Compliance:**

Not applicable. There is no forest near to the project site.

<b>30</b>	Consent from Kerala Pollution Control Board under Water and Air Act(s) should have been obtained before initiating activity.	<b>Complied</b>
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**Compliance:**

The project proponent has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No.1**.

<b>31</b>	All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.	<b>Complied</b>
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**Compliance:**

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.1, 2, 3, 4 & 5**.

**TABLE NO.3 – DETAILS OF APPROVALS OBTAINED**

Name of the Statutory approval	Name of the Statutory authority
<b>“<i>Consent to Operate</i>”</b>	Kerala State Pollution Control Board State
<b>Environmental Clearance order</b>	Environmental Impact Assessment Authority, Kerala
<b>Explosive License</b>	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
<b>License for quarry operations</b>	Gram Panchayath
<b>Lease order</b>	Directorate of Mining and Geology
<b>Permission to deploy HEMM</b>	DGMS

<b>32</b>	In the case of any change(s) in the scope of the project, extent	<b>Noted</b>
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	quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which only the EC is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.	
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**Compliance:**

At present there is no change in the scope of the project. The project proponent will apply for Environmental clearance in the case of any change(s) in the scope of the project.

<b>33</b>	The Authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	<b>Noted</b>
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**Compliance:**

The project proponent is aware and agreed with right of authority to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

<b>34</b>	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.	<b>Noted</b>
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**Compliance:**



The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952
- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009
- The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.

<b>35</b>	The project proponent should advertise in at least two local news papers widely circulated in the region, one which (both advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . The advertisement should be made within 10 days from the date of receipt of the Clearance letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.	<b>Complied</b>
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**Compliance:**

An advertisement in two local newspapers regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. The copy of the advertisement given in two local newspapers is provided at **Annexure No.8**. The details of the news papers are given in the Table

**Table No.4- Details of advertisement in news papers**

Sl. No.	News paper	Language	Date of edition
1	Kerala Kaumady	Malayalam	12-04-2018
2	The Hindu Daily	English	12-04-2018

<b>36</b>	A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / Municipality / Corporation / Urban Local Body and also to the Local NGO, if any from whom suggestions / representations, if any were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.	<b>Complied</b>
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**Compliance:**

A copy of the Environment Clearance letter was submitted to the Panchayath Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone.

<b>37</b>	The proponent shall submit six monthly 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.	<b>complied</b>
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**Compliance:**

The compliance report is being submitted along with the results of monitored data to the State Environmental Impact assessment Authority and the Regional Office of MoEF&CC, Bangalore as Email. The monitored data of Air, Noise and Water is attached as **Annexure No. 10, 11 &12.**

<b>38</b>	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.	<b>complied</b>
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**Compliance:**

As per the stipulation provided in Environmental Clearance order, the details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order. Sign board with extent of lease area and boundaries are depicted at the entrance of the quarry and it can be visible to the public.. Photograph of Metallic board and Sign board with extent of lease area is shown in **plate No. 14**.

<b>39</b>	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	<b>Complied</b>
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**Compliance:**

An assurance in the form of affidavit was already submitted to SEIAA Kerala. The copy of the same is attached as **Annexure No.7**.

<b>40</b>	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	<b>Noted</b>
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**Compliance:**

The project proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear SEIAA for Environment Clearance if the project proponent wants to expand its scope.

<b>41</b>	The project proponent shall ensure that no natural water course	<b>Noted</b>
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	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.	
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**Compliance:**

There is no such natural water course or “thodu” is flowing along the project site. The project proponent will ensure the natural runoff of storm water. No stream is originating from the lease area.

<b>42</b>	Monitoring of Ambient air Quality to be carried out based on the notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	<b>Complied</b>
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**Compliance:**

The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project proponent has increased the splashing of water and installed sprinklers at loading, unloading and transfer points. A new remote controlled water misting facility is installed over the crusher hopper. These activities reduce the fugitive emissions.

<b>43</b>	The top soil, if any, shall be temporarily stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be staked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45 <sup>0</sup> . The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the	<b>complied</b>
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	vegetation becomes self-sustaining.	
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**Compliance:**

The natural resources ie, top soil and overburden is stacked in a designated place within the project site. Only topsoil will be used for plantation. Topsoil protection is done by planting fodders and creepers as attached in **Plate No. 11**. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of State Environment Impact Assessment Authority (SEIAA

<b>44</b>	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc., The drains shall be regularly de silted particularly after monsoon and maintained properly.	<b>Complied</b>
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**Compliance:**

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels will be directed to the rain water collection pond. All sediments and silts will be settled at the bottom of the pond and only cleared water let out. The water from the pond is used for sprinkling of water on roads and for the overhead mist lines to arrest the dust emission.

<b>45</b>	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM <sub>10</sub> and PM <sub>2.5</sub> , such as haul road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters conform to the norm prescribed by the Central Pollution Control Board in this regard.	<b>Being complied</b>
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**Compliance:**

The project proponent is regularly spraying water in critical areas prone to air pollution with the help of vehicle and sprinklers. The project proponent will increase the number of sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points.

<b>46</b>	Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer point should be provided and properly maintained.	<b>Complied</b>
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**Compliance:**

The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying are properly maintained.

<b>47</b>	Measures should be taken for control of noise levels below 85 dBA in the work environment.	<b>Being complied</b>
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**Compliance:**

The noise level from all these activities will not go beyond 85dBA. The main sound generating activities are the operation of jack hammer, breaker, vehicles and blasting. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.

<b>48</b>	A separate Environmental Management Cell with suitable qualified personal should be set up under the control of a senior executive, who will report directly to the Head of the Organization.	<b>Complied</b>
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**Compliance:**

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent has constituted an Environment Monitoring Cell with Mr. Sonu Jose as the head of the Cell.

<b>49</b>	The funds earmarked for environmental protection and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact assessment authority (SEIAA) office.	<b>Being complied</b>
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**Compliance:**

The project proponent executes many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent will open an account for keeping the funds earmarked for environmental protection and CSR.

<b>50</b>	The Regional Office of MoEF &CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the regional Office by furnishing the requisite data/information/monitoring reports.	<b>Noted</b>
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**Compliance:**

The project proponent will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

<b>51</b>	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green tribunal Act, 2010.	<b>Noted</b>
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<b>52</b>	Concealing the factual data or submission of false/ fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted</b>
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<b>53</b>	The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	<b>Noted</b>
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**Compliance:**

The project proponent has been implementing conditions stipulated in this Environment Clearance order. The project proponent can execute all possible measures in the project site for the conservation of environment.

<b>54</b>	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	<b>Noted</b>
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**Compliance:**

The project proponent is giving priority to the conditions stipulated in the Environment clearance Order for its execution.

<b>55</b>	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Govt. of Kerala, whichever is earlier.	<b>Noted</b>
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<b>56</b>	The environmental clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.	<b>Noted</b>
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<b>57</b>	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	<b>Will be complied</b>
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**Compliance:**

The project proponent will restrict its mining operations above the ground water table.

<b>58</b>	All vehicle used for transportation and within the mine shall have "PUC" certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	<b>Complied</b>
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**Compliance:**

As part of reduce air pollution, the project proponent has monitoring the pollution level of all vehicles playing in the project site. This monitoring will conducted only in authorized pollution checking center.

<b>59</b>	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	<b>Noted</b>
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**Compliance:**

At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

<b>60</b>	Regular monitoring of flow rates and water quality upstream and down streams of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.	<b>Noted</b>
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**Compliance:**

There is no stream or springs flowing in and around to the mine lease area. The project proponent installed de siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.

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<b>61</b>	Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	<b>Complied</b>
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**Compliance:**

The project proponent conducted occupational health surveillance program for the labours working in mining area. Due to the pandemic spread, this is in a slow process.

# PLATES

**Plate No. 1**



**Rain water harvesting pond**

**Plate No.2**



**Trees along entrance road side**

**Plate No. 3**



**28 KL Water tank with sprinkler**

**Plate no. 4**



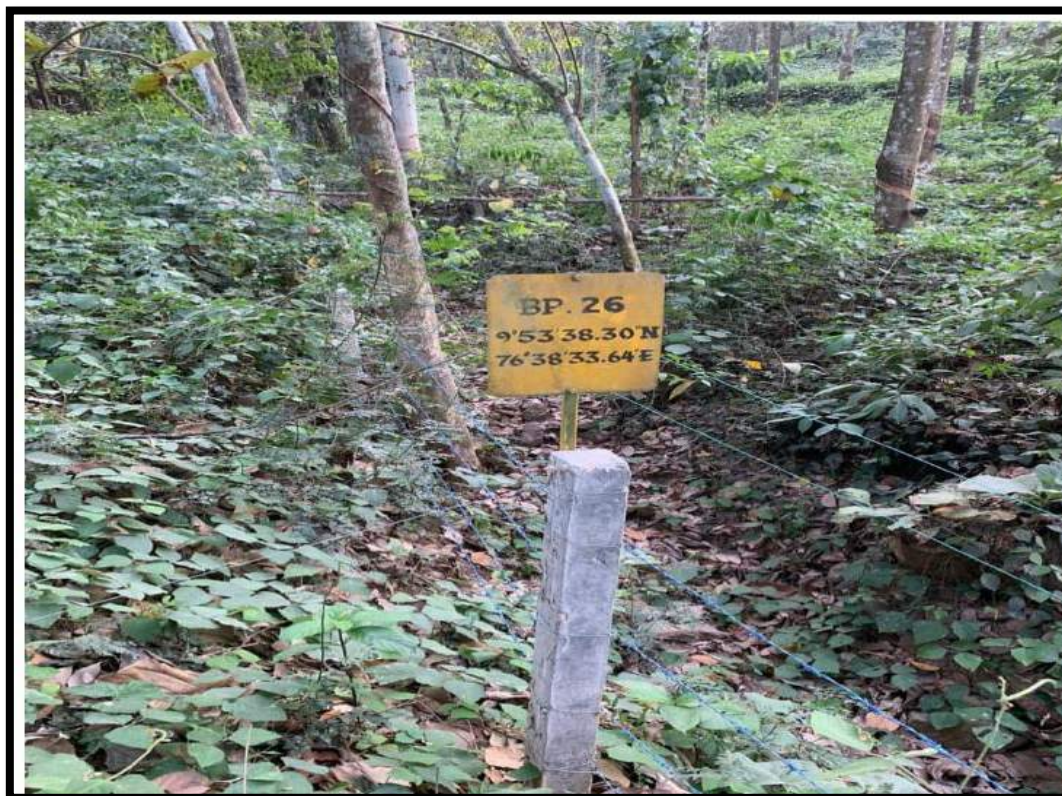
**Water mist sprinkler**

**Plate No. 5**



**Water spraying at unloading point (hopper) of crusher.**

**Plate No.6**



**Boundary Pillar**

**Plate No.7**



**Barbed metal wire fencing**

**Plate No.8**



**Signboards**

**Plate No.9**



**Tarred road to the quarry**

**Plate No.10**



**Protection wall construction**



**Plate No.11**



**Topsoil dump protected by planting creepers and Fodder grass**

**Plate No.12**

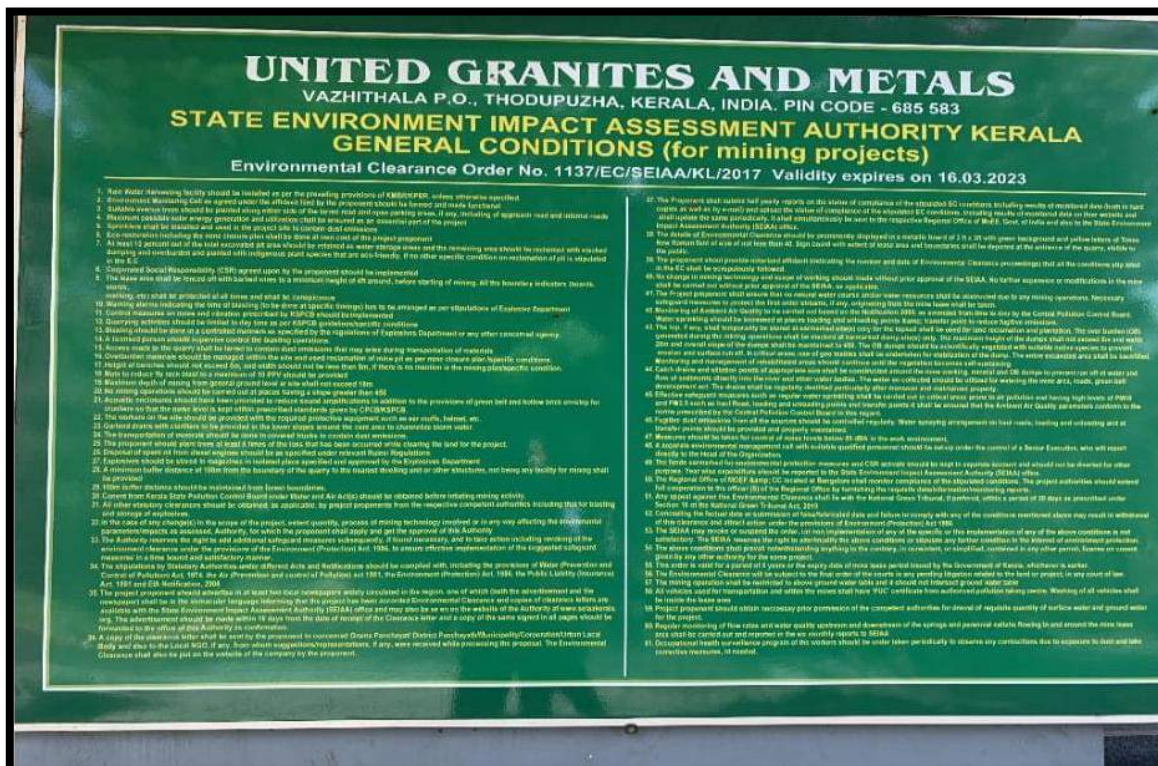


**Bench system in the quarry**

Plate No.13



Drainage  
Plate No.14



Metallic board



**Metallic board for extent of lease area**

**Plate No. 15**



**Plants being Nurtured**

**Plate No. 16**



**Solar light installed in public road**

**Plate No. 17**



**Arch shaped check dam for collecting rain water outside lease area**

**Plate No. 18**



**Fencing around Rain water harvest pond**

**Plate No. 19**




**Blasting mats in use**

# ANNEXUE

**Annexure No.1**

**FILE NO : PCB/RO-EKM/IDK/OL-845/18**  
**Date of issue : 16/07/2018**



**KERALA STATE POLLUTION CONTROL BOARD**

**CONSENT TO**

**OPERATE/AUTHORISATION/REGISTRATION**

**ISSUED UNDER**

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

and

The Environment (Protection) Act, 1986

As per Application No. :7515269  
Dated:28-06-2018

**TO**

**M/s SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS**  
**GEORGE KOCHUPARAMBIL VAZHITHALA P O THODUPUZHA**

Consent No. :018IDKCTOA7515269  
Valid Upto :15/07/2023

Page1

**1. GENERAL**

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

1	<b>VALIDITY</b>	15/07/2023
2	Name and Address of the establishment	SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS VAZHITHALA P O THODUPUZHA 685583
3	Communication	Telephone :91-9995878898 Fax :- E-mail:unitedgranitesandmetals@gmail.com
4	Occupier Details	GEORGE KOCHUPARAMBIL KOCHUPARAMBIL(H) MANAKKAD VAZHITHALA
5	Local Body	MANAKADU PNCHAYATH
6	Survey Number	351/1 pt,354/4,354/5,355/1pt,352/1pt,350
7	Village	MANAKKAD
8	Taluk	THODUPUZHA
9	District	IDUKKI
10	Capital Investment(Rs in Lakhs)	1200
11	Scale	Large
12	Category	RED
13	Annual fee(Rs)	Rs. 81000
	Total Fee remitted(Rs)	Rs. 405000/-
14	<b>RAW MATERIAL</b>	<b>PRODUCTS</b>
	ROCK/Y @400000 Metric Tonnes	STONE AGGREGATES/Y @400000 Metric Tonnes
15	Total Power Required (HP)	

**2. CONDITIONS AS PER****The Water(Prevention and Control of Pollution)Act, 1974**

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

Sl.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent



2.5 Mode of disposal of treated effluent:

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

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

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

3.2 Emission characteristics shall not exceed the following:

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

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

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.3.1 Activities for which Authorisation is granted

Collection	transport
Reception	Storage
Treatment	Reprocessing/Disposal

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

Sl.No.	Hazardous Waste	Schedule Category	Quantity Tonne/year
		Mode of	
		Storage	Disposal

4.4 E-waste shall be disposed off safely as per the E-Waste (Management)Rules, 2016.

**5. SPECIFIC CONDITIONS**

5.1. This consent, unless withdrawn earlier is valid up to the validity of permit/lease issued by the Department of Mining and Geology or 15.07.2023. In case of operation of the quarry is to be continued

thereafter, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System on or before 16.04.2023. Late application will be accepted with a fine or late fee as applicable.

5.2 This consent is granted for operating quarry with production capacity of 200MT/day granite boulders.

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

5.4 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.

5.5 A minimum distance of at least 50m shall be kept from the boundary of quarry area to residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.

5.6 All control measures provided should be maintained properly to ensure that the system is adequate to control the pollution caused.

5.7 The quarry should not be operated between 6.00 pm and 6.00am.

5.8 Necessary permission from Mining & Geology, Explosive Department may be obtained before doing blasting.

5.9 After excavation at the site is completed the land may be used for rain water harvesting with protective barriers/any other suitable approved purpose or may be reclaimed.

5.10 The depth of excavation below the highest point shall not exceed 6m.

5.11 Fencing shall be provided around the boundary of quarry operation and shall be maintained properly.

5.12 The PM10 in ambient air at the boundary shall not exceed 100  $\mu\text{g}/\text{m}^3$ .

5.13 The PM2.5 in ambient air at the boundary shall not exceed 60  $\mu\text{g}/\text{m}^3$ .

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

5.15 The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearance from other concerned authorities are valid.

5.16 No other machineries shall be operated without prior Consent of the Board.

5.17 The validity of this Consent is subject to subsequent Government Orders & directions/judgement of Honourable High Court and National Green Tribunal.

5.18 The location of the quarry unit shall be as shown in the drawing attached and no change, deviation or alteration that may affect the environment, extend and location of the quarry shall be made.

5.19 Fugitive emission from the premises shall be suppressed.

5.20 Products shall be transported with proper cover and/ or after wetting to prevent spreading of dust.

5.21 All the conditions stipulated in the Environmental clearance No.56/2018 shall be fully complied with during operation of the quarry.

5.22 For renewal of the consent in case of continuance of operation of the quarry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 3 months prior to the date of expiry. Late application will be accepted only with fine.

DATE :16/07/2018

BAJU M A

Digitally signed by BAJU M A  
Date: 2018.07.18 12:08:10 +0530'

SIGNATURE & SEAL OF ISSUING AUTHORITY



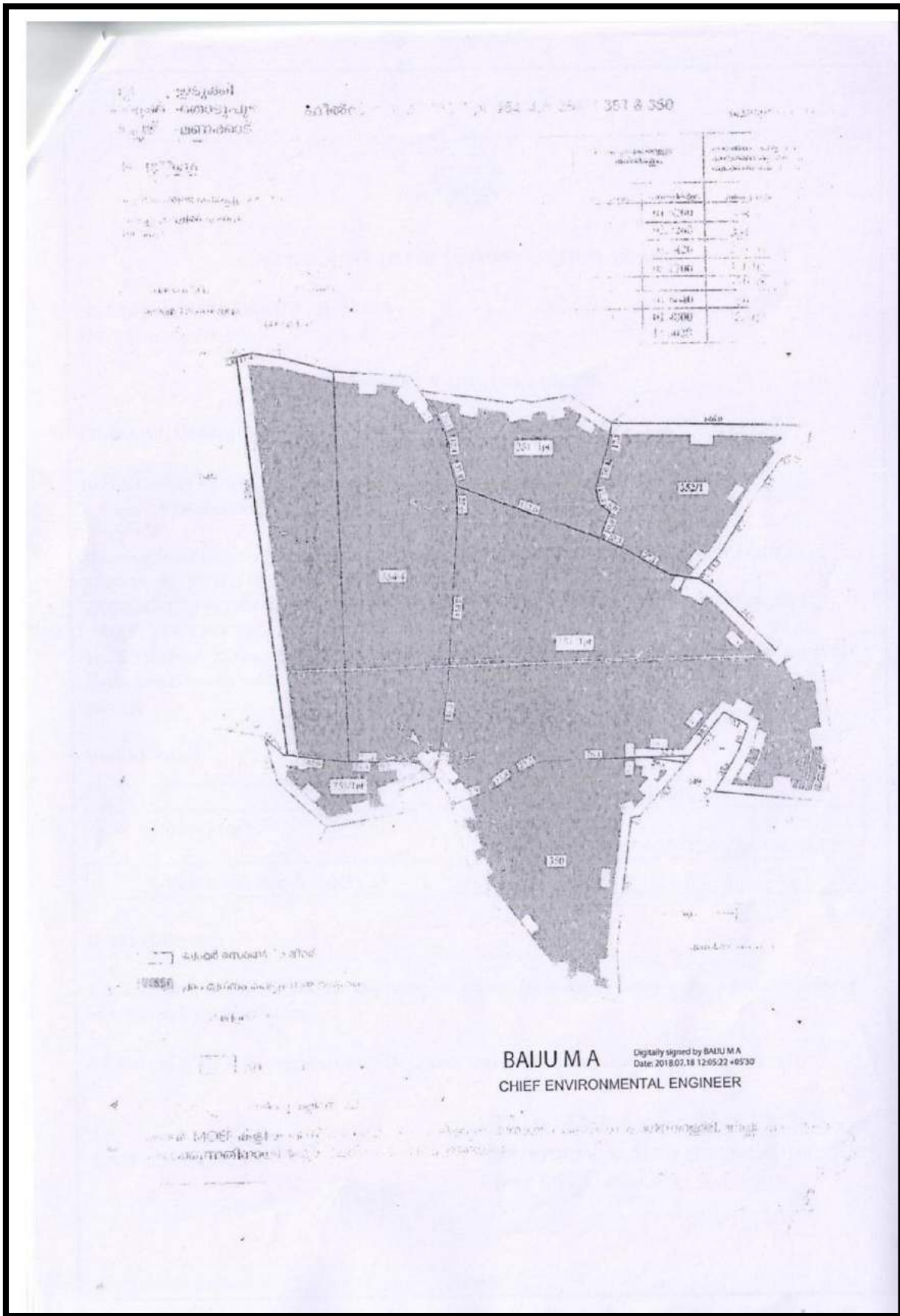
To

SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS VAZHITHALA  
P O THODUPUZHA

Copy to:

1. Member Secretary, Head Office, Trivandrum
2. Environmental Engineer, District Office, Idukki

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [krocms.nic.in](http://krocms.nic.in) and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.





**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/RO-EKM/IDK/OL-845/18

Date of issue :2018-10-17

**CONSENT VARIATION ORDER**

**Consent No : O18IDKCVO8831136**

**Ref : 1. Consent No.018IDKCTOA7515269 dated 16/07/2018 valid Up to 15/07/2023**

**2. Consent Variation Order No:O18LDKCVO 8454273 Dated:4.9.2018**

The ' Integrated Consent to Operate' issued as per reference above to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS, VAZHITHALA P O,THODUPUZHA is hereby modified & issued to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS, VAZHITHALA P O,THODUPUZHA The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

**I. GENERAL**

S.No.	Items	Description
1	Survey No	Re Survey Nos.351/1pt,354/4,354/5,355/1pt,352/1pt,350
2	Total Power Required (HP)	444 HP

**II. CONDITIONS**

2.1.Condition no.5.2 is modified as: This consent is granted for operating quarry with a production capacity of 1500 T/day granite boulders.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

DATE :17/10/2018

**BAIJU M A**

Digitally signed by BAIJU M A  
Date: 2018.10.17 12:39:25 +05'30'


SIGNATURE & SEAL OF ISSUING AUTHORITY  
CHIEF ENVIRONMENTAL ENGINEER



To  
SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS,  
VAZHITHALA P O, THODUPUZHA

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to [krocmmms.nic.in](http://krocmmms.nic.in) and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

## Annexure No.2



सत्यमेव जयते

Validity expires on 16.03.2023

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

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

Sub: **SEIAA- Environmental Clearance for the proposed quarry project in Re  
Survey Nos. 354/4, 354/5, 355/1 pt, 351/1 pt, 350, 352/1pt, at Manakkad  
Village, Thodupuzha Taluk, Idukki District, Kerala by Sri. George  
Kochuparambil - Granted – Orders issued.**

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**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA**

No. 1137/EC/SEIAA/KL/2017 **Dated, Thiruvananthapuram 17.03.2018**

Ref: 1. Application received on 13.07.2017 from Sri. George Kochuparambil,  
Kochuparambil House, Vazhithala. P.O., Thodupuzha, Idukki, Kerala - 685583  
2. Minutes of the 79<sup>th</sup> meeting of SEAC held on 25<sup>th</sup> & 26<sup>th</sup> September 2017.  
3. Minutes of the 80<sup>th</sup> meeting of SEAC held on 11<sup>th</sup> October 2017.  
4. Minutes of the 81<sup>st</sup> meeting of SEAC held on 30<sup>th</sup> & 31<sup>st</sup> meeting.  
5. Minutes of the 76<sup>th</sup> SEIAA meeting held on 16<sup>th</sup> November 2017.  
6. Minutes of the 79<sup>th</sup> meeting of SEIAA held on 09<sup>th</sup> January 2018.  
7. Minutes of the 82<sup>nd</sup> meeting of SEIAA held on 15<sup>th</sup> March 2018.  
8. Affidavit dt. 17.03.2018 from Sri. George Kochuparambil

**ENVIRONMENTAL CLEARANCE NO.56/2018**

Sri.George Kochuparambil, Kochuparambil House, Vazhithala. P.O., Thodupuzha, Idukki, Kerala - 685583, vide his application received 13.07.2017 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Re Survey Nos. 354/4, 354/5, 355/1 pt, 351/1 pt, 350, 352/1pt, at Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala for an area of 12.2987 Ha. 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 Notification No.S.O.141 (E) dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Page 1 of 15

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

**BASIC INFORMATION OF QUARRY  
PART A**

PROJECT DETAILS	
File No.	1137/EC/SEIAA/KL/2017
Name /Title of the project	Quarry (Minor Mineral) project of Mr. George Kochuparambil
Name and address of project proponent.	<b>Mr. GEORGE KOCHUPARAMBIL</b> Kochuparambil House, Vazhithala P.O., Thodupuzha, Idukki, Kerala-685583. E-mail :- unitedgranitesandmetals@gmail.com
Owner of the land	Private own land
Survey No. District/ Taluk/ and Village etc.	Re-Survey No. 354/4, 354/5, 355/1pt., 351/1pt., 350, 352/1pt., Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala
Category/Sub Category and Schedule	Category B / B2 & Schedule 1(a)
Details of period of lease or permit with number including the beginning and expiry date of lease /permit period <b>(Copy to be attached)</b>	The project is for expansion of an existing quarry project and the existing project is accorded with Environmental Clearance vide Order No. 36/SEIAA/KL/6091/2012 for an area of 4.2321 ha. The cumulative area is 12.2987 ha. The EC accorded area is part of the area in the instant application. Mining is in progress in the EC accorded area of 4.2321 ha with the support of mining lease vide No. 405/2013-2014/3099/M3/2013 Dt. 12/09/2013 issued by Mining and Geology Department, Govt. of Kerala with validity up to October, 2023 and the copy of mining lease is attached.
Present Status of the project	Part of the proposed quarry is working quarry (EC accorded area) with mining lease
Date & Year of starting the work of the quarry project.	11/10/2013
Whether the quarry is working at present or not ?	Working quarry with mining lease
If stopped working since when?	Not applicable
Date of submission of Application	13.07.2017
Brief description of the project.	The building Stone Quarry (Minor Mineral) mining project of Mr. George Kochuparambil is situated at Re-Survey No. 354/4, 354/5, 355/1pt., 351/1pt., 350, 352/1pt., Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala for an area of 12.2987 hectares. The land for the proposed quarry is private owned land and the land is possessed in the name of Mr. George Kochuparambil. The targeted production of mine will be 4,00,000 MTA. The estimated project cost will be Rs. 12 Crores. The expected life of mine estimated will



	be of about 16 years. The mining operation will be carried out by opencast semi-mechanized method as per the approved Mining Plan.	
GPS Co-ordinate	Latitude (N) = 09°53'32.72"N to 09°53'48.09"N	
	Longitude(E) = 76°38'21.51"E to 76°38'36.07"E	
Details of Authorized Signatory and address for correspondence	<b>Mr. GEORGE KOCHUPARAMBIL</b> Kochuparambil House, Vazhithala P.O., Thodupuzha, Idukki, Kerala-685583.  E-mail :- unitedgranitesandmetals@gmail.com	
<b>LAND DETAILS</b>		
Extent of area in hectares	12.2987 hectare	
Is the property forest land/ Govt. land/own land/patta land	Private own land	
Quantity of top soil/over burden produced and managed	A total quantity of 34,976 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 15,302 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.	
Latitude and Longitude	Latitude (N)	09°53'32.72"N to 09°53'48.09"N
	Longitude (E)	76°38'21.51"E to 76°38'36.07"E
Topography of land and elevation	Part of the land is existing quarry area and there is no vegetation in that area. The remaining land in the proposed land is mostly covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The topography of the lease area is hilly terrain. The highest elevation of the lease area is 145 m MSL and lowest is 35 m MSL. As the proposed area is hill rock, the drainage of the lease area is towards North. No habitants are located in the lease area.	
Slope analysis	The slope is towards North	
Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	Due care will be taken to provide channel all around the foot of the hill to collect run off and also to avoid soil erosion.	
Access road to the site width and condition	7m wide road	
Will there be any adverse impact on the aesthetics of the proposal	No, the land used will be fully reclaimed and rehabilitated by backfilling the pond and plantation. Plantation and afforestation will add to the improvement in environment and aesthetic beauty of the area.	

site	
<b>MINING DETAILS</b>	
Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 145 m to 30m MSL in conceptual phase.
Life of mine proposed.	About 16 years
Underground mining if any proposed	No underground mining. The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan.
Method of Mining	The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan
Distance from the adjacent quarry	There are two working quarries of M/s KKJ Groups International (India) Pvt. Ltd. (1.8531 ha + 1.97 ha) with cumulative area of 3.8231 ha are located within 500m radius of the proposed quarry site
Cluster condition if any	No cluster condition
Has "No cluster certificate" submitted?	Yes, cluster certificate is already submitted with Environment Clearance Application.
Distance from nearby habitation	About 103 m towards East
Distance from nearby forest, if applicable	None within the study area
Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
Distance from nearby streams / rivers / National Highway and Roads	Marika Muzhikkal Kayu thodu, 1.50 km, West Thodupuzha River, 3.50 km, North MVIP Canal, 2 km; North
Is ESA applicable? If so distance from ESA limit	Not in ESA
Has approved mining plan, prepared by RQP submitted?	Yes, the approved mining plan prepared by RQP is already submitted with E.C. Application.
Capacity of production in TPA	4,00,000 MTA
Details of mining	The mining will be done by open cast semi-mechanized method of

process	mining. The bench height and width will be maintained 5 m. Excavated material is transported to the crusher unit for further processing. The ultimate depth of the mine workings is estimated to reach up to 30m MSL.	
<b>DETAILS OF PROJECT COST</b>		
Land cost	<b>Rs. 12 Crore ( All inclusive )</b>	
Plant and Machinery	<b>Rs. 12 Crore ( All inclusive )</b>	
Total Cost	<b>Rs. 12 Crore ( All inclusive )</b>	
Financial Statement including funding source and details of insurance etc.	<b>Project Cost = Rs. 12 Crores</b> <b>Insurance = Insurance to the quarry workers would provide through insurance company.</b> <b>Funding = Own source &amp; bank loan</b>	
Environment Management Plan	Air Pollution	<p>Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> <li>• Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust.</li> <li>• To avoid the dust generation from the drilling operations, wet drilling method will be adopted.</li> <li>• Drill machines will be equipped with dust collectors.</li> <li>• Use of appropriate explosives for blasting and avoiding overcharging of blast holes.</li> <li>• Controlled blasting techniques will be adopted.</li> <li>• Watering of haul road and other road at regular intervals.</li> <li>• Provision of dust filters/ mask to workers working at highly dust prone and affected areas.</li> <li>• Provision of green belt all along the periphery of the lease area.</li> <li>• Periodical monitoring of ambient air quality in and around the lease area.</li> </ul> <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	Provision of storm water collection pond with an

	Pollution	appropriate capacity. The water requirement for sprinkling on sources of dust emission, on roads, landscaping etc. Can be met from the stored rainwater in the pond.
	Noise	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:- <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 plants during temporary storage.</p> <p><b>Overburden Management</b></p> <p>This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.</p>
	Eco-restoration	The year wise programme of eco-restoration for life of mine will be made and about 7,900 trees will be planted in an area of 7.9039 ha.
Whether Environment Management Plan or Eco restoration Plan satisfactory?	Detailed Environment Management Plan is already submitted with E.C. Application.	
Does it suggest mitigation measures for	Detailed Environment Management Plan is already submitted with E.C. Application.	

each activity	
Is Pre-Feasibility Report (PFR) satisfactory	Detailed Pre-Feasibility Report (PFR) is already submitted with E.C. Application.
Does it need public hearing	Not Applicable
Details of litigation and Court verdict if any	No litigation pending
Details of public complaint, if any	None
Details of statutory sanction required	The following Govt. Orders / Policies are to be followed:- > Kerala Minor Mineral Concession Rules, 2015. > Mines Act, 1952 > Explosive Rules, 2008 > Kerala Panchayat Raj Act, 1994 > Environment Protection Act, 1986 > EIA Notification, 2006 / 2009 > The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.
If CRZ recommendation applicable?	Not Applicable
<b>PART B</b>	
<b>ENVIRONMENT IMPACT ASSESSMENT AND MITIGATION MEASURES</b>	
Details of water requirement per day in KLD	The total water requirement is about 16 KLD in which 2 KLD is for domestic purpose which would be sourced from open well, 12 KLD for dust suppression in mine as well as ancillary unit and 2 KLD for plantation will be sourced from storm water pond.
Water source/sources.	2 KLD is for domestic purpose which would be sourced from open well, 12 KLD for dust suppression in mine as well as ancillary unit and 2 KLD for plantation will be sourced from storm water pond.
Expected water use per day in KLD.	16 KLD
Details of water requirements met from water harvesting.	12 KLD for dust suppression in mine as well as ancillary unit and 2 KLD for plantation will be sourced from storm water pond.
What are the impact of the proposal on the ground water?	No significant impact envisaged on ground water due to the mining project.
How much of the water requirement can be met from the recycling of	No STP proposed for treatment of waste water.

treated waste water? (Facilities for liquid waste treatment)	
What is the incremental pollution load from waste water generated from the proposed activities?	The sewage to a tune of 1.60 KLD generated from the mine office will be diverted to the septic tank followed by soak pit.
How is the storm water from within the site managed?	The run-off from the lease area will be suitably collected through channels and will be stored in storm water pond for further utilization in Mine unit. However, all measures will be taken to not to disturb the natural drainage system of the surrounding area.
<b>IMPACT ON BIODIVERSITY AND ECO RESTORATION PROGRAMMES</b>	
Will the project involve extensive 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.
What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	The year wise programme of eco-restoration for life of mine will be made and about 7,900 trees will be planted in an area of 7.9039 ha.
Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures ? Presence of any endangered species or red listed category (in detail)	Not applicable  No endangered species found at site
<b>IMPACT ON AIR ENVIRONMENT</b>	
What are the mitigation measures on	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

<p>generation of dust, smoke and air quality</p>	<p>operations.</p> <ul style="list-style-type: none"> <li>• Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust.</li> <li>• To avoid the dust generation from the drilling operations, wet drilling method will be adopted.</li> <li>• Drill machines will be equipped with dust collectors.</li> <li>• Use of appropriate explosives for blasting and avoiding overcharging of blast holes.</li> <li>• Controlled blasting techniques will be adopted.</li> <li>• Watering of haul road and other road at regular intervals.</li> <li>• Provision of dust filters/ mask to workers working at highly dust prone and affected areas.</li> <li>• Provision of green belt all along the periphery of the lease area.</li> <li>• Periodical monitoring of ambient air quality in and around the lease area.</li> </ul>
<p>Details of internal traffic management of the site.</p>	<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>
<p>Details of noise from traffic, machines and vibrator and mitigation measures</p>	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are to be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> <li>• Proper maintenance of machinery equipments and improvement on design of machines.</li> <li>• Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.</li> <li>• Creation of wide green belt of dense foliage between mine areas and residential colonies.</li> <li>• Proper training to personnel to create awareness about adverse noise level effects.</li> <li>• Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.</li> </ul>
<p>Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation</p>	<p>No DG Set proposed</p>

measures	
Air quality monitoring in detail	The ambient air quality monitoring of the project site was carried out and the copy of report is already submitted with E.C. Application.
<b>ENERGY CONSERVATION</b>	
Details of power requirement and source of supply.	The total power requirement will be 75 kW, which will be drawn from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.
Details of renewable energy (non conventional) used.	The total power requirement will be 75 kW, which will be drawn from diesel engine. Fuel Quantity – 16 to 20 lt/ hr.
<b>RISK MANAGEMENT</b>	
Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	Detailed Environment Management Plan is already submitted with E.C. Application.
Are proposals for fencing around the quarry satisfactory?	Barbed wire fencing will be done all around the quarry site.
Storage of explosives /hazardous substance in detail	The stone quarry mine will result in increase in frequency of blasting for mining the mineral. However, controlled blasting with optimum charge of holes will be carried out to loosen the rock. Explosion hazards are envisaged due to mishandling of explosives. Explosives will be handled with utmost care in compliance of conditions imposed by Chief Controller of Explosive & Metalliferous Mines Regulation, 1961.
Facility for solid waste management	Top soil and over burden generated from the site will be stored separately on earmarked place and will be used for eco-restoration and internal road development.
<b>SOCIO ECONOMIC IMPACTS</b>	
Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	The proposed project will directly / indirectly develop the area by providing employment opportunities. With the proposed development in and around the area there will be supporting facilities/ infrastructure eventually leading to the development of the area.
Will the proposal result in any changes to the	Part of the land is existing quarry area and there is no vegetation in that area. The remaining land in the proposed land is mostly covered with



demographic structure of local population. If so, provide details.	native trees, shrubs, herbs, grass, climbers, bushes etc. The topography of the lease area is hilly terrain. The highest elevation of the lease area is 145 m MSL and lowest is 35 m MSL. As the proposed area is hill rock, the drainage of the lease area is towards North. No habitants are located in the lease area.
Details of CSR commitment	The project proponent set apart an amount of Rs. 25 Lakhs as recurring expenses and Rs. 25 Lakhs as Non recurring expenses for CSR activities for the welfare of local community in consultation with the Grama Panchayat.
What are the projects benefits in terms of employment potential?	Due to the mining activity and due to the attached ancillary unit, there will be workers attracted to the project area. It is proposed to employ 30 persons in the project.
<b>PART C</b>	
Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	<b>M/s Environmental Engineers &amp; Consultants Pvt. Ltd.</b> <b>(NABET Accredited Consultant Organization)</b> <i>Head Office :-</i> A1-198, Janak Puri, New Delhi.  <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.
<b>SUMMARY AND CONCLUSION</b>	
Overall justification for implementation of the project.	It is predicted that socio-economic impact due to this project will positively increase the chance of more employment opportunities for local inhabitants. There are no Resettlement and Rehabilitation issues involved in this project. The project infrastructures will be of use to people of the area. The revenue of the State Govt. will be definitely increasing due to the proposed activity. The entire project area is devoid of any endangered flora and fauna. <b>It is proposed to reclaim the land and develop green cover for eco-restoration with native species to a maximum possible extent. Additionally, an area is earmarked outside the proposed mining area for compensatory mass plantation. Also, a storm water pond is proposed outside the mining area for storage of rain water and for its subsequent use so as to conserve fresh water consumption.</b> Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely.
Explanation of how adverse impact have been mitigated.	Detailed Pre-Feasibility Report (PFR) with Environment Management Plan (EMP) is already submitted with E.C. Application.

2. The proposal was placed in the 79<sup>th</sup> meeting of SEAC held on 25<sup>th</sup> & 26<sup>th</sup> September 2017 and the Committee decided to defer the item for field inspection. Accordingly field visit to the proposed project site was conducted by the Sub Committee consisting of

Dr.K.G.Padmakumar & Sri.P.Sreekumaran Nair on 02<sup>nd</sup> October 2017. The report is as follows;

*The proposed project is for a Building Stone quarry, in own land of 12.2987 hectares. The nearest habitation is about 103 m towards east. The nearest water body is MarikaMuzhikkal Kavuthodu , 1.50 km. Two working quarries of M/s KKJ Groups International (India) Pvt. Ltd. (1.8531 ha + 1.97 ha) with cumulative area of 3.8231 ha are located within 500m radius of the site.*

*The quarry is presently in operation based on valid lease issued vide 36/SEEIA/KL/6091/2012 dtd 14.11.12, lease valid up to 2013. The operating quarry is well maintained. All suggestions have been adhered to. Sedimentation ponds at different levels neatly maintained. Solar lights fixed up for external lighting. The company MS/ United Granites and metals is reportedly fixing up an imported new crushing and screening unit for rock and mineral processing crusher unit, which is reportedly more environment friendly and more quiet in operation. We were deeply impressed by the way they maintain registers on quarry operations, especially appreciation goes to the mines Manager who is organizing trainings periodically to workers on Do's and Don'ts in mining. A separate training register is maintained.*

*The proponent has meticulously planted over 12,700 plants( as stated) , to form a green belt. Trees are seen closely planted, well established all along the pavement sides. The top soil removed is stacked separately, clarification ponds available, water harvesting structures are well maintained. Very effective mobile water sprinkling system is found to be in operation. Vibration test is done periodically, monitoring reports from CSIR Mining and Fuel Research institute Nagpur, reports produced. Sign/display boards have been displayed at every location.*

*We may recommend the case as proponent is apparently following all the set norms and guidelines.*

3. The proposal was placed in the 80<sup>th</sup> meeting of SEAC held on 11<sup>th</sup> October 2017. The Committee decided to defer the item for considering in the next meeting. A mass petition from Pallavi Nagar Residents' Association against the proposed project is received on 19.10.2017.

4. The proposal was again considered in the 81<sup>st</sup> meeting of SEAC held on 30<sup>th</sup> & 31<sup>st</sup> meeting. The Committee appraised the proposal based on the Mining plan, Form.1, Pre-feasibility Report, all other documents submitted with the proposal and the field visit report condition. The members of the Sub Committee who inspected the site informed that they did not notice any of the structures mentioned in the petition of Pallavi Nagar Residents' Association in 100 m periphery where quarrying operations i proposed. After deliberations the Committee decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.

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

The proponent agreed to set apart Rs.30 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat.

5. The proposal was considered in the 76<sup>th</sup> SEIAA meeting held on 16<sup>th</sup> November 2017. Authority noticed that there are complaints from 'Pallavi Nagar Residents' Association against the quarry. Hence Authority decided to hear the complainants and the proponent in the next SEIAA meeting.

6. The proposal was placed in the 79<sup>th</sup> meeting of SEIAA held on 09<sup>th</sup> January 2018. The proponent and the complainant were heard during the meeting. Authority noticed the grievances of both the petitioner and the proponent. After discussion Authority directed the proponent to keep a minimum buffer distance of 100 m and an additional 20 m where habitation is high and also complete plantation within 6 months. A revised Mining Plan should be submitted to this effect before the issuance of EC.

The proponent has submitted a revised Mining Plan reducing the minable area from 10.3578 ha to 9.8766 ha.

7. The proposal was finally placed in the 82<sup>nd</sup> meeting of SEIAA held on 15<sup>th</sup> March 2018. Authority accepted the recommendation of SEAC and decided to issue EC subject to general conditions in addition to the specific conditions as recommended by SEAC. The proponent should set apart Rs.30 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat. The CSR amount should be included in the annual account of the company and the expenditure statement should be submitted to SEIAA along with the compliance report after getting certified by a

Chartered Accountant. A notarised affidavit for the commitment of CSR activities and also agreeing all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted the affidavit vide reference 8<sup>th</sup> cited.

8. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the quarry project of Sri.George Kochuparambil, Kochuparambil House, Vazhithala. P.O., Thodupuzha, Idukki, Kerala – 685583 in Re Survey Nos. 354/4, 354/5, 355/1 pt, 351/1 pt, 350, 352/1pt at Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala for an area of 12.2987 Ha., subject to the specific conditions as in para 4 & 7 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.

9. 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 7 (Blasting), Chapter 10 (EMP) Chapter 14 (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.

10. 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.

11. 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, Idukki.
- iii. The given address for correspondence with the authorised signatory of the project is Sri.George Kochuparambil, Kochuparambil House, Vazhithala. P.O., Thodupuzha, Idukki, Kerala – 685583.

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

To,


Sri.George Kochuparambil,  
Kochuparambil House, Vazhithala. P.O.,  
Thodupuzha, Idukki, Kerala - 685583

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



Forwarded/By Order

  
Administrator, SEIAA

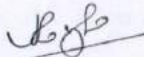
## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

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

  
For Member Secretary, SEIAA Kerala

**Copy of EC order**




## Annexure No.3

**अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3**  
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

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

अनुज्ञप्ति सं. (Licence No.): E/SC/KL/22/1730(E72220)  
वार्षिक फीस रूपए (Annual Fee Rs): 2400/-



Licence Photo

1. Licence is hereby granted to  
**George Kolhuparambil, Proprietor (अधिभोगी / Occupier : George Kolhuparambil), M/s. United Granites & Metals, Vazhithala P.O., Thodupuzha, Town/Village - Vazhithala, District-IDUKKI, State-Kerala, Pincode - 685588**

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : **Proprietorship Firm**

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।  
possess for use of **Detonators, Safety Fuse, Nitrate Mixture, -**  
के उपयोग के लिए

Licence is valid only for the following purpose.

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।  
Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate Mixture	2,0	0	250 Kg.
2.	Detonators	6,3	0	5000 Nos.
3.	Safety Fuse	6,1	0	2000 Mtrs

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] : **20 times as above.**  
(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)]:

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1730 है।  
The licensed premises shall conform to the following drawing(s): . दिनांक (Dated) 01/04/2015

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:  
Survey No. 357/3, Block No. 11, ग्राम (Town/Village) : **Manakkadu (v), Thodupuzha**  
जिला (District) : **IDUKKI** राज्य (State) : **Kerala** पुलिस स्टेशन (Police Station) : **Thodupuzha**  
दूरभाष (Phone) : पिनकोड (Pincode) : **685588**  
ई.मेल (E-Mail) : फैक्स (Fax) :

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।  
Constructed magazine for explosives and detonator as per Specification 2 of Schedule VII of Explosives Rules, 2008.  
The licensed premises consist of following facilities.

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2019.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VIII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।  
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 01/04/2015

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives South Circle, Chennai

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/09/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 09/11/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 29/06/2018

नवीनीकरण के पृष्ठोक्ता के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
21/03/2019	31/03/2022	Dy. Chief Controller of Explosives, Ernakulam उप मुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम - Ernakulam

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

Copy of Explosive license



GOVERNMENT OF INDIA  
 MINISTRY OF COMMERCE & INDUSTRY  
 PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION (PESO)  
 (Formerly Department of Explosives)  
 Kendriya Bhavan, Block C-2, 3rd Floor  
 CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
 Tele: 2427286 Fax: 2427276  
 Email: dycceernakulam@explosives.gov.in

No. E/SC/KL/38/21(E98818)

Dated : 29/04/2019

To,  
 George Kochuparambil, Proprietor,  
 M/s. United Granites & Metals, Manakkadu (v), Vazhithala P.O., Thodupuzha Taluk,  
 Town/Village - IDUKKI  
 Distt. IDUKKI, State, Kerala, Pincode-685588

Subject: Manufacturing ANFO from ANFO shed at Survey No.:357/3, Block No.11,, Village/Town. Manakkadu (v), Thodupuzha Taluk, Distt. IDUKKI, State Kerala Licence No.: E/SC/KL/38/21(E98818) granted in Form LE-1 of Explosives Rules, 2008 - Endorsement regarding

Sir(s),

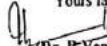
Reference memo No.: E/SC/KL/38/21(E98818) Dated 02/04/2019 from Joint Chief Controller of Explosives, South Circle, Chennai and inspection of the subject premises by an officer of this organization on 27/11/2018.

The subject licence No. E/SC/KL/38/21(E98818) valid upto 31st March 2022 duly endorsed as required under Rule 107(3) of the Explosives Rules 2008 is forwarded herewith.

For further renewal of licence, please submit following documents so as to reach this office on or before 31/03/2022.

- Application in Form RE-1 duly filled in and signed.
- Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
- Original licence with approved plan.
- In this connection, please also refer to Rule 112 of Explosives Rules, 2008.

You are advised to maintain accounts of explosives manufactured by you in Form RE-2 and RE-5 of Explosives Rules, 2008.

Yours faithfully,  
  
 (Dr. R. Venugopal)  
 Deputy Chief Controller of Explosives  
 Ernakulam

Copy Forwarded to:

1. District Magistrate, IDUKKI, Kerala with reference to his Noc No: 2012/50767/6 and 2013/88965/6 Dated: 30/11/2013.

Deputy Chief Controller of Explosives  
 Ernakulam

[For more information regarding status, fees and other details, please visit our web site <http://explosives.gov.in>]


**अनुज्ञापित प्रष्ठाकृत**  
**LICENCE ENDORSED**

**अनुज्ञापित प्ररूप एल.ई.-1 | LICENCE FORM LE-1**  
(विस्फोटक नियम, 2008 की अनुसूची 4 के 1(घ) देखिए।)  
(See article 1(d) of Schedule IV of Explosives Rules, 2008)

(ए) एक समय में 200 किलोग्राम से अधिक स्थल पर ए.एन.एफ.ओ. विस्फोटक के विनिर्माण के लिए अनुज्ञापित  
Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time

अनुज्ञापित सं. (Licence No.) : E/SC/KL/38/21(E98818)  
वार्षिक फीस स्वरूप (Annual Fee Rs): 1200/-

**ड.सु.वि.नि. - एरनाकुलम**  
**D. C. E., Ernakulam**



1. Licence is hereby granted to  
**George Kochuparambil, Proprietor (अधिभोगी / Occupier : George Kochuparambil), M/s. United Granites & Metals, Manakkadu (v), Vazhithala P.O., Thodupuzha Taluk., Town/Village - IDUKKI, District-IDUKKI, State-Kerala, Pincode - 685588**

को अनुज्ञापित अनुदत्त की जाती है।

2. अनुज्ञापितधारी की प्रस्थिति | Status of licensee : Proprietorship Firm

3. अनुज्ञापित निम्नलिखित प्रयोजनों के लिए विधिमान्य है। : Manufacture of -  
ANFO - के विनिर्माण के लिए।

Licence is valid only for the following purpose.

4. अनुज्ञापित विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।  
Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं. / Sr. No.	नाम और विवरण / Name and Description	वर्ग और प्रभाग / Class & Division	उप-प्रभाग / Sub-division	मात्रा किसी एक समय में / Quantity at any one time
1.	ANFO	2.0	0	200 Kg

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापित परिसर की पुष्टि होती है।  
The licensed premises shall conform to the following drawing(s):  
रेखाचित्र क्र. (Drawing No.) E/SC/KL/38/21(E98818)  
दिनांक (Dated) 02/04/2018

6. अनुज्ञापित परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:  
Survey No. 357/3, Block No.11, ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk पुलिस थाना (Police Station) : Thodupuzha  
जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588  
दूरभाष (Phone) ई.मेल (E-Mail) फैक्स (Fax)

7. अनुज्ञापित परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : as per attached Annexure details  
The licensed premises consist of following facilities.

8. अनुज्ञापित समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपादधरों के अधीन रहते हुए अनुदत्त की जाती है।  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।  
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञापित प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापित की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- परिशिष्ट | Annexure

9. यह अनुज्ञापित तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022.

यह अनुज्ञापित, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट Set III के अधीन तथा उपवर्णित इस अनुज्ञापित की शर्तों का अधिग्रहण करने या यदि अनुज्ञापित परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।  
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under set Set III, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 02/04/2018

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller Explosives  
South Circle, Chennai

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for endorsement of Renewal


नवीकरण की तारीख / Date of Renewal	समाप्ति की तारीख / Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प / Signature of licensing authority and stamp

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


**(सेट III | Set III)**

मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा अनुदत्त प्ररूप एन ई 1 (अनुच्छेद (घ)) में ए.एन.एफ.ओ. विस्फोटकों के विनिर्माण के लिए अनुज्ञप्ति सं. E/SC/KL/ (E98818) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number E/SC/KL/38/21(E98818) for manufacture of ANFO explosives in Form LE-1 [article 1(d)] granted by Controller or Controller of Explosives.

- परिसर या उसके किसी भाग में एनएफओ विस्फोटकों की मात्रा किसी एक समय में उस मात्रा से अधिक नहीं होगी, जिसके लिए अनुज्ञप्ति जारी की गई है।  
The quantity of ANFO explosives in the premises or any part thereof shall not exceed at any one time the quantity for which licence has been issued
- एनएफओ विनिर्माण शेड को 15 मीटर की दूरी पर बाड़ लगा कर संरक्षित किया जाएगा और वह अनुसूची- VIII की सारणी 1 में यथाविनिर्दिष्ट संरक्षित संकर्मों से सुरक्षा दूरी बनाए रखेगा।  
The ANFO manufacturing shed shall be protected by a fencing at a distance of 15 metres and it shall maintain safety distance from protected works as specified in table 1 of Schedule VIII.
- शेड में कार्य कड़ाई में अधिकारित सुरक्षाकार्य प्रक्रियाओं और अनुदेशों के अनुसार किया जाएगा।  
Work in the shed shall be carried out strictly in accordance with the laid down safe working procedures and instructions
- एनएफओ विस्फोटकों को विनिर्माण अनुज्ञप्तिधारी द्वारा नियुक्त किसी अर्हित उत्तरदायी व्यक्ति के सीधे पर्यवेक्षणधीन किया जाएगा।  
The ANFO explosives shall be manufactured under the immediate supervision of a qualified responsible person appointed by the licensee.
- अनुज्ञप्तिधारी और प्रत्येक नियोजित व्यक्ति उस स्थान या उन स्थानों में जहां एनएफओ विस्फोटकों का विनिर्माण किया जात है या देखभाल की जाती है या उपयोग किया जाता है, अग्नि या विस्फोटक के कारण होने वाली दुर्घटनाओं को रोकने के लिए सभी सम्यक पूर्वाधानियां बरतेंगे।  
The licensee and every person employed shall take all due precautions for the prevention of accidents by fire or explosion, in the place or places where the ANFO explosives is manufactured, handled or used.
- एनएफओ विस्फोटकों के सभी अवशेषों को एकत्रित किया जाएगा और अनुभवी व्यक्ति के पर्यवेक्षण के अधीन अनुज्ञप्त परिसर से दूर किसी सुरक्षित स्थान में नष्ट किया जाएगा।  
All spillage of ANFO explosive shall be collected and destroyed at a safe place away from the licensed premises under the supervision of experienced person.
- एनएफओ विस्फोटकों के विनिर्माण के लिए प्रयुक्त आधानी और मिश्रणों को प्रयोग के पश्चात उपयुक्त डिटरजेंट घोल से अच्छी तरह साफ किए जाएंगे और जल से धोया जाएगा।  
All containers and mixers used for manufacturing the ANFO explosive shall after use, be thoroughly cleaned with suitable detergent solution and washed with water.
- अनुज्ञप्तिधारी और कर्मचारी परिसरों के भीतर अपात के दौरान की जानेवाली प्रक्रिया से अवगत होंगे।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
- किसी निरीक्षण या नमूना लेने वाले अधिकारी को सभी बुकितयुक्त समयों पर अनुज्ञप्त परिसर में अबाध पहुंच प्रदान की जाएगी और यह अभिनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों या सुरक्षा संबंधी शर्तों का सम्यक रूप से पालन किया जाता है, उस अधिकारी को प्रत्येक सुविधा उपलब्ध करवाई जाएगी।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
- यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक लिखित में अनुज्ञप्ति धारक को अनुज्ञप्त परिसर या मशीनरी, औजारों या साधनों में कोई मरम्मत या कोई परिवर्तन या परिवर्तन करने के लिए या ऐसी सिफारिशों को क्रियान्वित करने के लिए, जोखिम प्रदर्शित कर सकती है और परिसर या व्यक्तियों की स्थल पर या स्थल से बाहर सुरक्षा के लिए आवश्यक है, सूचित करता है जो अनुज्ञप्ति धारक उन सिफारिशों को निष्पादित करेगा और ऐसे प्राधिकारी ब्य रा विनिर्दिष्ट अवधि के भीतर अनुपालन की रिपोर्ट देगा।  
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the licence shall execute the recommendations and report compliance within the period specified by such authority.
- अग्नि या विस्फोट के कारण होनेवाली दुर्घटनाओं और विस्फोटकों की हानि, कमी या चोरी के बारे में निकटतम पुलिस स्टेशन और अनुज्ञापन प्राधिकारी तथा अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय में तुरंत रिपोर्ट की जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority

  
कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
For Joint Chief Controller of Explosives  
दक्षिणचल, चेन्नई | South Circle, Chennai

## ANFO Mixing



भारत सरकार | Government of India  
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)  
 पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives  
 केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor  
 CSEZ पी.ओ. कक्कनाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
 फ़ोन (Phone):- 2427286 | फ़ैक्स (Fax):- 2427276  
 ई-मेल | Email: dycceernakulam@explosives.gov.in

संख्या | No: A/SC/KL/P3/14(A2264) दिनांक | Dated : 26/06/2019

सेवा में | To, ✓ GEORGE KOCHUPARAMBIL, Prop.M/s United Granites and Metal,  
 S.No.357/3, Block No.11, Manakkadu Village, Thodupuzha Tk.,  
 Town/Village - Thodupuzha  
 Dist. IDUKKI, State. Kerala, Pincode-685588

विषय | Subject: Survey No. : 357/3, Block No.11, नगर/गांव : Manakkadu, जिना : IDUKKI, राज्य : Kerala में स्थित विस्फोटक विनिर्माण इकाई (एफएनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुमति अमोनियम नाइट्रेट नियम, 2012 के फॉर्म P-3 में जारी अनुमति संख्या : A/SC/KL/P3/14(A2264) - पृष्ठांकन के संबंध में ।

Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO) situated at Survey No.: 357/3, Block No.11, Village/Town. Manakkadu, Distt. IDUKKI, State Kerala Licence No.: A/SC/KL/P3/14(A2264) granted in Form P-3 of Ammonium Nitrate, 2012 - Endorsement regarding

श्रीमान | Sir(s),

संबन्धित मुख्य विस्फोटक निबंधक, दक्षिणांचन, चेन्नई के ज्ञापन संख्या : A/SC/KL/P3/14(A2264) दिनांक: 18/04/2019 तथा विषयक परिसर का दिनांक: 27/04/2019 को इस कार्यालय के अधिकारी द्वारा किए गए निरीक्षण के संदर्भ में ।


Reference memo No.: A/SC/KL/P3/14(A2264) Dated 18/04/2019 from Joint Chief Controller of Explosives, South Circle, Chennai and inspection of the subject premises by an officer of this organization on 27/04/2019.

अमोनियम नाइट्रेट नियम, 2012 के नियम 35(3) के अंतर्गत विधिवत पृष्ठांकित दिनांक: 31st मार्च 2022 तक वैध, विषयक अनुमति संख्या: A/SC/KL/P3/14(A2264) अद्योपित की जा रही है ।  
 The subject licence No. A/SC/KL/P3/14(A2264) valid upto 31st March 2022 duly endorsed as required under Rule 35(3) of the Ammonium Nitrate 2012 is forwarded herewith.

अनुमति के पुनःनवीकरण हेतु निम्नलिखित दस्तावेजों को दिनांक: 31/03/2022 से पूर्व इस कार्यालय में जमा कर दें।  
 For further renewal of licence, please submit following documents so as to reach this office on or before 31/03/2022.

- आर-1 में विधिवत भरा और हस्ताक्षरित आवेदन ।
- Application in Form R-1 duly filled in and signed.
- किसी भी राष्ट्रीयकृत बैंक पर आहरित संबन्धित मुख्य विस्फोटक निबंधक, चेन्नई के पक्ष में चेन्नई में देय, एक से पांच वर्ष के लिए अनुमति फीस के रूप में डिमांड ड्राफ्ट।
- Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
- मूल अनुमति।
- Original licence.
- इस संबंध में विस्फोटक नियम, 2012 का नियम 36 का भी संदर्भ ग्रहण करें ।
- In this connection, please also refer to Rule 36 of Ammonium Nitrate, 2012.

भवदीय | Yours faithfully,

  
 (आर.वेणुगोपाल) | (D.F. Venugopal)  
 Deputy Chief Controller of Explosives | उप मुख्य विस्फोटक निबंधक  
 कोच्ची | Ernakulam  
 उप मुख्य विस्फोटक निबंधक  
 Deputy Chief Controller of Explosives  
 कोच्ची Ernakulam

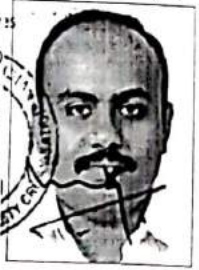

**अनुमति प्रपत्र P-3**  
 (अमोनियम नाइट्रेट नियम, 2012 की अनुसूची 1 की क्रम संख्या-3 और नियम 352के )  
**LICENCE FORM P-3**  
 (See Sr No-3 of Schedule I and rule 352 of Ammonium Nitrate Rules, 2012)  
**अनुमति प्रपत्र P-3**  
 (अमोनियम नाइट्रेट नियम, 2012 की अनुसूची 1 की क्रम संख्या-3 और नियम 352के )  
**LICENCE ENDORSEMENT**  
 Deputy Chief Controller of Explosives  
 LICENCE TO possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)

अमोनियम नाइट्रेट (एनएनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुमति  
 Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)

अनुमती संख्या | Licence No. : A/SC/KL/P3/14(A1244)  
 वारिक अनुमती शुल्क | Annual licence Fee Rs: 1000/-

अनुमति एतद्वारा जारी की जाती है :  
 Licence is hereby granted to :

GEORGE KOCHIUPARAMBIL, Prop. M/s United Granites and Metal (अभिषेक)  
 GEORGE KOCHIUPARAMBIL )  
 S No 357/3, Block No 11, Manakkadu Village, Thodupuzha Tn., गहर 1 गांव - Thodupuzha  
 जिला- IDUKKI, राज्य- Kerala, पिन कोड - 685588 Phone - , Email - फ़ैस-


- अनुमतिधारी का स्तर, Individual  
Status of licence holder: Individual
- अनुमति केवल निम्नलिखित प्रयोजन हेतु वैध है : विस्फोटक विनिर्माण इकाई (एनएनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुमति  
Licence is valid only for the following purpose : Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)
- अनुमति अमोनियम नाइट्रेट की निम्नलिखित मात्रा के लिए वैध है :  
Licence is valid for the following quantity of Ammonium Nitrate

नाम तथा विवरण Name and Description	किसी एक समय में मात्रा (कि.ग्रा.) Quantity at a time (Kg)	किसी एक वित्तीय वर्ष में क्रम की जाने वाली अमोनियम नाइट्रेट की मात्रा (कि.ग्रा.) Quantity of Ammonium Nitrate to be purchased in a financial Year (Ks)
Ammonium Nitrate (Solid)	35000	420000

- अनुमति परिसर निम्नलिखित आरेख(एन) के अनुरूप होगा  
The licensed premises shall conform to the following drawings  
आरेख संख्या | Drawing No : A/SC/KL/P3/14 (A2144) दिनांक | Dated : 09/11/2017
- अनुमति परिसर निम्नलिखित पते पर स्थित है  
The Licensed premises are situated at following address.  
Survey No. 357/3, Block No.11, गहर 1 गांव | Town/Village : Manakkadu
- पुलिस स्टेशन | Police Station : Thodupuzha जिला | District : IDUKKI राज्य | State: Kerala  
पिन कोड | PinCode : 685588 फोन | Phone : इंग्लिश | E-Mail : फ़ैस | Fax :
- अनुमति परिसर में निम्नलिखित सुविधाएँ अनिवार्य हैं  
The licensed premises consist of following facilities :  
Consist of one store house.
- अनुमति, समाप्त-नाश पर बचा संशोधित विस्फोटक अधिनियम 1884, एवं उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 की शर्तें, अतिरिक्त शर्तें तथा निम्नलिखित उपबन्धों के अधीन जारी की जाती है  
(i) इसका क्रम संख्या 5 में उल्लिखित आरेख (जिसमें स्थल, निर्माण एवं अन्य विवरण दर्शाए गए हैं)।  
(ii) अनुमति जारी करने वाले अधिकारी द्वारा हस्ताक्षरित अनुमति की शर्तें एवं अतिरिक्त शर्तें।  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Ammonium Nitrate Rules, 2012 framed there under and the conditions, additional conditions and Annexures.  
(i) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.  
(ii) Conditions and Additional Conditions of this licence signed by the license issuing authority.
- यह अनुमति 31 मार्च 2022 तक वैध रहेगी।  
This licence shall remain valid till 31st day of March 2022

यह अनुमति विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 या इस अनुमति की किसी शर्तों का उल्लंघन करने पर या यदि अनुमति परिसर, आरेख और उक्त संलग्न उपबन्ध में दस्तावेज विवरण के अनुरूप नहीं पाए जाते पर निम्नलिखित या प्रतिबंधित की जा सकती है।  
This licence is liable to be suspended or revoked for any violation of the Explosives Act 1884 or Ammonium Nitrate Rules, 2012 framed there under or the conditions of this licence, if the licensed premises are not found conforming to the description shows in the plans and annexure attached hereto

दिनांक | Date: 09/11/2017

  
 संयुक्त प्रमुख विस्फोटक नियंत्रक  
 Joint Chief Controller of Explosives  
 दक्षिण वृत्त, चेन्नई  
 South Circle, Chennai

अनुमति नवीकरण के लिए पुनःबन्धन  
Endorsement for renewal of licence.

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुमति प्राधिकारी के हस्ताक्षर Signature of licensing authority
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**सांविधिक चेतावनी: अमोनियम नाइट्रेट का दुरुपयोग कानूनी तौर पर गंभीर दण्डनीय अपराध है।**  
**Statutory Warning : Misuse of Ammonium Nitrate shall constitute serious criminal offence under the law.**

## Conditions

मुख्य विस्फोटक नियंत्रक / या विस्फोटक नियंत्रक द्वारा प्रदत्त प्रारूप P-3 में विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुज्ञप्ति, अनुज्ञप्ति संख्या A/SC/KL/P3/14(A2264) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number A/SC/KL/P3/14(A2264) to Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO) in Form P-3 granted by the Chief Controller or Controller of Explosives.


- अमोनियम नाइट्रेट का भण्डारण अनुज्ञप्ति के साथ संलग्न अनुमोदित आरेखण में दर्शाए गए अनुज्ञप्त गोदाम या ग्रेल्ट भण्डारण टैंक में ही किया जाएगा।  
The Ammonium Nitrate shall be possessed only in the licensed storehouse or melt storage tank shown in the approved plan attached with the License.
- अमोनियम नाइट्रेट की मात्रा परिसर, में या उसके किसी भी भाग में, अनुज्ञप्त मात्रा, किसी एक समय में, से अधिक नहीं होनी चाहिए।  
The quantity of Ammonium Nitrate in the premises or any part thereof shall not exceed at any one time the quantity for which License has been issued.
- छलक हुआ या अपरिष्कृत अमोनियम नाइट्रेट को एकत्र कर अनुज्ञप्तिधारी द्वारा विनष्ट किया जाना चाहिए एवं विनष्ट किए गए अमोनियम नाइट्रेट को मात्रा का लेखाजोखा रखा जाएगा।  
Spilled or sweepings of Ammonium Nitrate the waste Ammonium Nitrate collected from sweeping or spilled shall be destroyed by the License holder and account thereof shall be maintained indicating the quantity of the Ammonium Nitrate destroyed.
- अनुज्ञप्तिधारी और विनिर्माण तथा संपरिवर्तन के लिए परिसर में नियुक्त प्रत्येक व्यक्ति को विनिर्माण तथा संपरिवर्तन के लिए अनुज्ञप्ति परिसर में अग्नि या विस्फोट से होने वाली दुर्घटना से बचाव तथा विनिर्माण तथा संपरिवर्तन के लिए अनुज्ञप्त परिसर में अनधिकृत व्यक्तियों के प्रवेश से बचाव के लिए पूर्ण सावधानी बरतनी होगी एवं ऐसे किसी भी कार्य से विरत करना होगा जो अग्नि या विस्फोट का कारण बने एवं जो विनिर्माण तथा संपरिवर्तन परिसर में कार्य के उद्देश्य से आवश्यक न हो।  
The License holder and every person employed shall take all due precautions for prevention of accidents by fire or explosion in the licensed premises and for preventing unauthorized person from having access to licensed premises and shall abstain from any act from whatsoever which tends to cause or explosion and is not reasonably necessary for the purpose of works related thereto.
- मुख्य विस्फोटक नियंत्रक या अनुज्ञापन प्राधिकारी की पूर्व लिखित स्वीकृति के बिना अनुज्ञप्त परिसर में किसी भी प्रकार का परिवर्तन एवं परिवर्धन नहीं किया जाएगा। स्वीकृत किए गए इस प्रकार के परिवर्तन एवं परिवर्धन अनुज्ञप्ति के साथ संलग्न संशोधित आरेखण में दर्शाए जाएंगे।  
No additions and alterations shall be carried out in the licensed premises without a previous sanction in writing of the Licensing Authority. Such additions and alterations so sanctioned shall be shown in the amended plan attached to the License.
- अनुज्ञप्तिधारक द्वारा विनिर्माण तथा संपरिवर्तन प्रक्रिया के पर्यवेक्षण एवं कार्यों का संचालन इन नियमों के अनुरूप करने हेतु एक योग्य एवं सक्षम व्यक्ति नियुक्त किया जाएगा।  
The License holder shall appoint a competent person to supervise the operations shall be conducted under the supervision of the competent person.
- किसी निरीक्षण अधिकारी या नमूना लेने वाले अधिकारी को अनुज्ञप्त परिसर में युक्तियुक्त समय पर बराबर अबाध पहुंच प्रदान की जाएगी और ऐसे अधिकारी को वे सभी सुविधाएं उपलब्ध की जाएगी जिससे कि वह सुनिश्चित कर सके कि अधिनियम और इन नियमों के उपबंधों एवं सुरक्षा संबंधी शर्तों का सम्यक् रूप से पालन किया जा रहा है।  
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and all facilities shall be offered to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
- यदि जिला प्राधिकारी या निरीक्षण अधिकारी अनुज्ञप्तिधारी को लिखित में अधिकृत परिसर में कोई मरम्मत या कोई परिवर्तन या परिवर्धन या ऐसी सिफारिशों को क्रियान्वित करने के लिए, जो ऐसे अधिकारी की राय में अस्वीकार्य जोखिम उत्पन्न कर सकती है और इस प्रकार वह परिसर के बाहर या भीतर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, सूचित करता है, तो अनुज्ञप्तिधारी उन सिफारिशों को निष्पादित करेगा और ऐसे प्राधिकारी द्वारा विनिर्दिष्ट अवधि में अनुपालन की रिपोर्ट देगा।  
If the License Issuing authority or the inspecting officer informs in writing, the holder of the License to execute any repairs or to make any additions or alterations to the licensed premises or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and therefore the same is necessary for the safety or security of the premises or persons, the holder of the License shall execute the recommendations and report compliance within the period specified by such authority.
- अग्नि या विस्फोट से होने वाली दुर्घटनाओं और अमोनियम नाइट्रेट की हानि, उसमें कमी या चोरी की सूचना निकटतम पुलिस स्टेशन और जिला प्राधिकारी के स्थानीय कार्यालय को तुरन्त दी जाएगी।  
Accidents by fire or explosion and losses, shortage or theft of Ammonium Nitrate shall be immediately reported to the nearest police station and the District Authority.
- अनुज्ञप्तिधारी अनुसूची II भाग 3 में विनिर्दिष्ट प्रारूप में इनका अभिलेख रखेंगे जिससे कि अमोनियम नाइट्रेट के लिए उत्तरदायित्व सुनिश्चित कर उनकी पहचान कर खोज की जा सके एवं नियम 50 में विहित प्राधिकारी के मांगे जाने पर ऐसे अभिलेख प्रस्तुत किए जाएंगे।  
License holder shall maintain records in the prescribed forms specified in Schedule II Part 3 to ensure accountability, identification and traceability of Ammonium Nitrate and shall produce such records on demand to authority specified in rule 50.
- अनुज्ञप्तिधारी, अनुसूची II भाग 3 में विनिर्दिष्ट प्रारूप द-9 में जिला प्राधिकारी को मासिक विवरणी इस प्रकार प्रेषित करेंगे कि वह प्रत्येक आगामी महीने की 10 तारीख तक अनुज्ञापन प्राधिकारी या जिला प्राधिकारी को प्राप्त हो जाए।  
The License holder shall submit monthly returns of AN received, sold /used/stolen or short received and destroyed in the form prescribed in Form R-9 of Part 3 of Schedule II so as to reach Licensing Authority and District Authority within 10th day of every succeeding month.

कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
दक्षिण घेरा, चेन्नई  
For Joint Chief Controller of Explosives  
South Circle, Chennai

## ANFO Storage



Annexure No.4




നമ്പർ: 25/2021-2022/A-9/702/2021 തീയതി: 01/04/2021

**മണക്കാട് ഗ്രാമപഞ്ചായത്ത്**  
 പുതുപ്പരിയാരം പി.ഒ പി.ഒ., ഇടുക്കി (ജില്ല)  
 പിൻ: 685608, ഫോൺ: 04862-202248, ഇ-മെയിൽ: manakkadgp@gmail.com

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

ലൈസൻസിയുടെ പേര്	ജോർജ്ജ് കൊച്ചുപറമ്പിൽ		
ലൈസൻസിയുടെ മേൽവിലാസം	പ്രൊസ്പെക്ടർ, യൂണൈറ്റഡ് ഗ്രാനൈറ്റ്സ് & മെറ്റൽസ്		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	യൂണൈറ്റഡ് ഗ്രാനൈറ്റ്സ് & മെറ്റൽസ്		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കല്ല് ഖനനം നടത്തുന്നതിന്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	XII/Surey No.354/4,5,355/1pt,351/1pt,350,352/1pt		
ലൈസൻസ് കാലാവധി	01/04/2021	മുതൽ	31/03/2022 വരെ
ലൈസൻസ് ഫീസ് മോട്ടോർ ഫീസ് തൊഴിൽ നികുതി	തുക	രസീത് നമ്പർ	തീയതി
	15000 /- രൂപ	120010103080	25/03/2021
	4440 /- രൂപ	120010103080	25/03/2021
2500 /- രൂപ	120010103080	25/03/2021	
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിവരങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം )	1. Consent to operate from PCB No-PCB/RO/EKM/IDK/OL-845/18 dtd 16/07/2018 Valid upto-15/07/2023 2. Environmental clearance certificate No-1137/EC/SEIAA/KL/2017 valid upto-16/03/2023 3. certificate from PESO NO-E/SC/KL/22/1730(E72220) 4. Blastmancertificate		
ഓഫീസ് മുദ്ര			
	സെക്രട്ടറി മണക്കാട് ഗ്രാമപഞ്ചായത്ത് പുതുപ്പരിയാരം പി.ഒ., ഇടുക്കി ജില്ല-685608 ഫോൺ: 04862-202248, മെയിലിംഗ്: manakkadgp@gmail.com		

Copy of Panchayat license

## Annexure No.5

No. 890/M3/2017

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: 01/10/2018

From  
 The Director of Mining & Geology

To  
 Shri. George Kochuparambil,  
 Kochuparambil House,  
 Vazhithala. P. O,  
 Thodupuzha,  
 Idukki District – 685 583

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. 451/2018-19/890/M3/2017/DMG Dated: 01/10/2018  
 2. Kerala Minor Mineral Concession Rules, 2015  
 3. Kerala Minerals (Prevention of illegal Mining, Storage & Transportation) Rules, 2015.  
 4. Mines & Minerals (Development & Regulation) Act, 1957.

Please refer to the Proceedings Order cited above wherein a quarrying lease for Granite (Building Stone) is granted to **Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District – 685 583. A draft copy of quarrying lease deed in Form H is enclosed.** 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, Idukki** for scrutiny and execution. The date of execution will be filled by the Geologist at the time of execution or you fill in the date after getting confirmation from the District Geologist. After scrutiny of the quarrying lease deed, the Geologist will inform you the date of execution convenient to him. You have to be present in person at the District Office on such date with two witnesses for execution of deed. It may be noted that the survey map based on which lease is granted to you forms a part of the deed and same has to be included in the lease deed. The signature of the lessee and lessor has to be affixed in the survey map also. After execution of deed, as per the request of the District Geologist stamp duty shall be fixed by District Registrar. On remittance of stamp duty, a certificate of remittance of stamp duty will be entered in the lease deed by the Registrar. The lease deed has to be registered by the office of the Registration Department concerned. After registration, the documents have to be produced before the District Geologist.

A chalan for **Rs. 1,22,987/- (Rupees one lakh twenty two thousand nine hundred and eighty seven 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 before the Geologist, District Office, **Idukki** 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.

Before starting quarrying operations you have to send 2 copies of notice in attached Form D to the Director (Mining), Directorate General of Mines Safety, No. 5, 14<sup>th</sup> Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bangaluru – 560 034 and one copy to District Magistrate concerned.

Yours faithfully,

*[Signature]*  
DIRECTOR OF MINING & GEOLOGY

Encl (applicant):

1. Proceedings order
2. Draft Form H
3. Form D
4. Countersigned Chalan

Copy to:

*[Signature]*  
The Geologist, District Office, Idukki for further necessary action.  
(Ref your letters No. DOI/1485/M/16 dated 11/01/2017, 27/07/2018)

You are instructed to execute the lease deed as and when it is received. The Proceedings Order cited as reference I, original survey map and draft Form H are enclosed herewith. The survey map forms a part of lease deed and the signatures of both lessor and lessee. A copy of the lease deed may be forwarded to this office soon after registration. Please ensure that the area under this grant is demarcated and boundary stones maintained properly before execution of the lease deed.

You may ensure remittance of security deposit, surface rent etc. for the amount specified in the lease order. You may also obtain financial guarantee from the lessee for the amount specified in the lease order.

You are also instructed to obtain and forward the Form D to this office. Since Form D is a statutory document, no movement permits shall be issued to lessee if lessee fails to prove that he had sent notice in Form D to the Director (Mining), Directorate General of Mine Safety, No. 5, 100ft Road, 17<sup>th</sup> Main, Koramangala 4<sup>th</sup> Block Bengaluru, Karnataka – 560 034 and District Magistrate.

You are further instructed to forward photocopies of the registered lease deed to the Director of Mines Safety, Bangaluru & District Collector. Please ensure that the lessee is observing the requirements as per mining plan, lease grant order, form H and KMMC Rules, 2015.

Encl: (District Geologist)

1. Original Survey Map
2. Draft Form H
3. Proceedings order

**PROCEEDINGS OF THE ADDITIONAL DIRECTOR OF MINING & GEOLOGY,  
THIRUVANANTHAPURAM, KERALA**  
(Present Shri. T K Ramakrishnan)

- Sub:* Department of Mining & Geology, Government of Kerala - Mines & Minerals - Minor Minerals - Granite (Building Stone) - Quarrying Lease to Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District - 685 583 - sanctioned-orders-issued.
- Ref:* 1 Application dated 17/10/2016 from Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District - 685 583.
- 2 Letter No. DOI/1485/M/16 dated 11/01/2017, 09/02/2017, 27/07/2018 from the Geologist, District Office, Idukki
- 3 Letter of Intent No. 890/M3/2017 dtd 10/02/2017 issued by Director of Mining and Geology
- 4 Environmental clearance No. 56/2018 issued vide Pro. Order No. 1137/EC/SEIAA/KL/2017 dtd. 17/03/2018 by the State Environment Impact Assessment Authority, Kerala (valid till 16/03/2023)
- 5 Integrated consent to operate No. 0181DKCTOA7515269 dt. 16.07.2018 issued by Kerala State Pollution Control Board, Idukki (valid till 15/07/2023)
- 6 Explosive License No. E/SC/KL/22/1730(E72220) dated 29/06/2018 issued by Petroleum and Explosive Safety Organization, Ernakulam (valid till 31.03.2019)
- 7 Dangerous and Offensive Trade License No. A4/107/2018-19 dated 26/07/2018 issued by Manakkad Grama Panchayat (valid till 31.03.2019)
- 8 Mines and Minerals (Development & Regulation) Act, 1957.
- 9 Kerala Minor Mineral Concession Rules, 2015
- 10 Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015
- 11 Pro. Order No. 153/2010-11/2326/M3/2010 dt. 03.06.2010
- 12 Pro. Order No. 405/2013-14/3099/M3/2013 dt. 12.09.2013
- 13 Pro. Order No. 431/2018-19/890/M3/2017/DMG dt. 24.09.2018
- 14 Pro. Order No. 432/2018-19/790/M3/2017/DMG dt. 24.09.2018
- 15 Letter dt. 11.09.2018 from Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District - 685 583

**No. 451/2018-19/890/M3/2017/DMG Dated, Thiruvananthapuram 01/10/2018**

**ORDER**

Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District - 685 583 (Aadhaar No. 9275 7836 6510) submitted an application vide

✓

Page 1 of 7

reference first cited to obtain quarrying lease to quarry Granite (Building Stone) over an area of **12.2987** Hectares of land (as per the survey map issued by Tahsildar, Thodupuzha) comprised in **Re - Survey Block No. 11, Re - Survey Nos. 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt** of **Manakkad Village, Thodupuzha Taluk, Idukki District**. Vide letter dated 11/01/2017 the District Geologist, Idukki has intimated that the applied area was previously quarried with the strength of two quarrying leases and permits and that a total quantity of 8,48,656 tonnes of Granite (building stone) was already removed from the said area. District Geologist has also intimated that as on date of application, there is no dues against the applicant.

Based on the merit of the application and the enclosed mandatory documents including survey map, possessions certificates, demarcation certificate and land assignment certificate issued by Revenue Authorities and based on the recommendation of the District Geologist, a letter of intent was issued to the applicant vide reference cited 3 intimating the intention of the department to grant quarrying lease subject to production of approved mining plan and other statutory licenses. The District Geologist forwarded the mining plan (prepared by Shri. Mukesh Suroliya, Recognized Qualified Person - Reg. No. RQP/AJM/321/2010/A) approved by him and other statutory licenses submitted by the applicant to this office. In the approved mining plan it is mentioned that the life of mine is 15 years and mineable mineral reserve of granite (building stone) in the applied area is 59,80,285 tonnes and that it is proposed to mine 4,00,000 tonnes of granite (building stone) for 12 years with an annual production of 4,00,000 tonnes. As the area applied for lease includes the area under existing leases the applicant requested for surrender of existing leases and it was allowed as per the reference 13 and 14 and the deed of surrender of leases were registered at the Sub Registrar Office, Thodupuzha on 28/09/2018. Since the applicant has produced all statutory documents as per the Letter of Intent, it is decided to grant a quarrying lease in the said land and hence following orders are issued:

A quarrying lease is hereby granted **Shri. George Kochuparambil, Kochuparambil House, Vazhithala. P. O, Thodupuzha, Idukki District - 685 583 (Aadhaar No. 9275 7836 6510)** to quarry Granite (Building Stone) over an area of **12.2987** Hectares of land (as per the survey map issued by Tahsildar, Thodupuzha) comprised in **RE - Survey Block No. 11, Re - Survey Nos. 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt** of **Manakkad Village, Thodupuzha Taluk, Idukki District - 685 583** for **12 (Twelve)** years as per the Kerala Minor Mineral Concession Rules, 2015, subject to the conditions mentioned below.

1. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015 and the quarrying leases deed shall be registered in accordance with the provisions of the Indian Registration Act, 1908.
2. The lessee shall commence quarrying operation only after the deed is executed and registered.
3. The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous written permission of the Director of Mining & Geology.
4. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules. In case the lessee opts for consolidated royalty payment system by registering attached metal crusher units as per Rule 89, then consolidated royalty at the rate specified in Schedule III said Rules shall be paid instead of royalty specified in Schedule I.
5. Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
6. Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
7. The lessee shall also deposit an amount of **Rs. 1,22,987/- (Rupees one lakh twenty two thousand nine hundred and eighty seven only)** being the security deposit at the rate of Rs 10,000/- per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules.
8. The lessee shall produce financial guarantee for **Rs. 3,07,468/- (Rupees three lakhs seven thousand four hundred and sixty eight only)** as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
9. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the District Geologist periodically.
10. The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
11. In addition to the royalty, rents, funds, fees etc. that are required to be remitted by the lessee as per the Mines and Minerals (Development and

- Regulation) Act, 1957 and Rules made thereunder, the lessee shall pay all other fees, rents, taxes etc. as required by other agencies including Goods and Service Tax (GST) for royalty.
12. The quarrying shall be carried out as per the conditions stipulated in Kerala Minor Mineral Concession Rules 2015 and storage and transportation of mineral shall be carried out as per Kerala Minerals (Prevention of Illegal Mining, Storage and Transportation) Rules 2015.
  13. The lessee shall renew Environmental Clearance on or before **16/03/2023** for the operation of the quarry for the remaining period.
  14. The quarrying operations shall be strictly as per the approved mining plan and schemes of mining.
  15. The lessee shall review the progressive quarry closure plan every five years from the date of opening of the quarry and shall submit to the competent authority for its approval. The lessee shall submit to the competent authority in this behalf any early report before 1st July of every year describing protective works including reclamation and rehabilitation work carried out as envisaged in the approved quarry closure plan and if there is any deviation, reasons thereof.
  16. The lessee shall submit a scheme of mining for the next five years or remaining period of the lease to the competent authority for approval at least one hundred and twenty days before the expiry of the first five year period for which it was approved on the last occasion.
  17. The lessee shall submit final quarry closure plan one year prior to the proposed closure of the quarry and close the quarry as per the approved quarry closure plan.
  18. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the year-wise quantity specified in the approved Mining Plan and scheme of mining.
  19. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
  20. The Lessee shall comply with any and all laws, ordinances, rules and orders related to quarrying operations of any and all governmental or quasi-governmental authorities.
  21. The lessee shall comply with all the conditions mentioned in other statutory license required for carrying out quarrying operations.
  22. The lessee shall stop all quarrying activities in the event of expiry of any other statutory licenses which is required for carrying out quarrying activities in the State as per the prevailing Acts and Rules. Any quarrying activity undertaken violating the above condition will be treated as illegal



.. Page 4 of 7

and lessee will be solely responsible for such act and lessee will be liable to pay the penalty imposed by any officer competent to enforce such Acts and Rules.

23. In case the lessee makes any breaches in the conditions of the lease deed or violates the conditions stipulated in relevant Act and Rules based on which all Statutory Licenses are issued for quarrying, then the lessee will be solely responsible for any such breaches and violation and in such cases, the lessee will be solely liable to pay such sum of money as fixed by competent authorities as due and penalty.
24. The Lessee shall indemnify and keep indemnified the State Government against all actions, proceedings, suits, claims, demands, losses, damages, costs, charges, and expenses incurred or suffered by them as a reason of any non-observance or non-performance of rules and regulations
25. This lease is granted in good faith based on the documents/licenses submitted by the lessee. The lessee is solely responsible for the authenticity of the documents/licenses submitted. At any stage, if it is observed that the documents submitted are incorrect or fake or forged or if it is found that some information was omitted or suppressed, then this lease is liable to be cancelled. In such an event the quarrying carried out with the strength of this lease will be treated as quarrying conducted without any lawful authority.
26. The lessee shall properly maintain the boundary pillars erected as per the demarcation certificate issued by the Village Officer till the expiry of lease.
27. The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the lessee, mineral concession number and date, validity of concession, the name of the mineral quarried, proposed annual production etc. In addition, details of other statutory licenses shall also be displayed.
28. The lessee shall erect by the side of the road leading to quarry (preferably 100 m away from quarry), a warning board with danger sign regarding operation of the quarry and use of explosives.
29. The lessee should take effective preventive measures for the safety of labourers as well as the general public. In due course of quarrying, if any part of the quarry becomes unsafe, then the lessee shall properly fence that area for preventing accidents by falling of human beings, animals, vehicles or any objects into the pit formed by quarrying.
30. The lessee shall not carry out any quarrying operations within 7.5 meters from the boundary of the lease area and quarrying operations shall be carried out in benches.

d/



31. The lessee shall start mining operation with the strength of this lease only after sending a notice in form D appended to KMMC Rules 2015 to the Director (Mining), Directorate General of Mines Safety, No.5, 14<sup>th</sup> Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bengaluru – 560034 and to District Magistrate concerned and shall intimate the same to the District office of the Department of Mining and Geology.
32. The lessee shall keep book of accounts of production and dispatch of granite (building stone) and shall file monthly and annual returns in Form F and Form G appended to KMMC Rules 2015.
33. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
34. In this case, the anticipated royalty to be remitted for the mineral extracted per year at the present rate of royalty of **Rs. 24/-** per tonne with average annual production of **4,00,000** tonne is **Rs. 96,00,000/- (Rupees ninety six lakhs only)**. In this case, the surface rent to be remitted per year at the present rate of Rs. 5 per Are per year is **Rs. 6,149/- (Rupees six thousand one hundred and forty nine only)** and in the event of non – functioning of quarry the Dead Rent to be realized for the 1<sup>st</sup> year – NIL IInd year – Rs. 300/- (Rupees three hundred only) and IIIrd year onwards – Rs. 1,200/- (Rupees one thousand and two hundred only) per hectare subject to revision from time to time.

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

Sd/-

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

To

Shri. George Kochuparambil,  
Kochuparambil House,  
Vazhithala. P. O,  
Thodupuzha,  
Idukki District – 685 583

Copy to:

- 1 The Director (Mining), Directorate General of Mines Safety, No.5, 14<sup>th</sup> Main (100ft) Road, 4<sup>th</sup> B Block, Koramangla, Bengaluru – 560034
- 2 The Member Secretary, SEIAA, Pallimukku, Pettah, Thiruvananthapuram.
- 3 The Chairman, SEIAA, Pallimukku, Pettah, Thiruvananthapuram

- 4 The Deputy Chief Controller of Explosives, PESO, C2-III Floor, CGO Complex, Kakkanad, Ernakulam
- 5 The Environmental Engineer, Kerala State Pollution Control Board, District Office, Idukki District.
- 6 The Secretary, Manakkad Grama Panchayath, Vazhithala. P. O, Idukki District.
- 7 The Tahsildar, Thodupuzha Taluk Office, Idukki District.
- 8 The Village officer, Manakkad Village, Idukki District
- 9 Shri. Mukesh Suroliya, 5A/6, Vijay Bari, Dher Ka Balaji, Sikar Road, Jaipur (Raj.) - 302 023
- 10 ✓ The Geologist, District Office of the Dept. of Mining and Geology, Idukki
- 11 Stock File
- 12 File Copy

(By Order)

*J. C. C.*  
01/10/2018

Senior Superintendent

### Lease Order

## Annexure No.6

43

15<sup>th</sup> meeting of Environment monitoring Committee held on 15-09-2021 at 3:00 PM

The minutes of 14<sup>th</sup> meeting was reviewed.

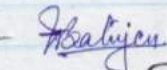
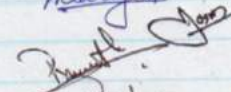
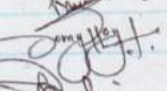
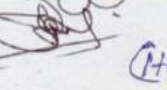
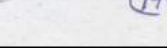
Pressure vessel testing has to be done. ~~concerned~~ Authorised agencies are to be contacted.


All other points are done.

New Points

1. Rainy season is almost completed water sprinkling has to be started
2. Medical check up has to be done. Once the covid intensity reduces, this will be started.
3. During the rainy season we have planted 900 trees which is a remarkable achievement. Watering the plants are also being done.
4. The water collection pond in the mined out area has to be fenced.
5. Spent oil to be sold to authorised shops.
6. Road from sand leading point will have a chappath fall always with water of about 30cm depth to reduce dust generation.
7. The latest mist system at plant hopper to be operated.


Members.

1. Mr. Baly. P. Peulse - 
2. Mr. Joseph KJ - 
3. Mr. Pralath - 
4. Mr. Jemy Joy - 
5. Mr. John Peter - 

  
Sonu Jose  
(Head of Environment cell)

## EMC Minutes report

Annexure No.7



भारतीय गैर न्यायिक  
भारत INDIA  
रु. 500 FIVE HUNDRED RUPEES  
पाँच सौ रुपये सत्यमेव जयते Rs. 500  
INDIA NON JUDICIAL

കേരളം കERALA 547173

**AFFIDAVIT**

I, George Kochuparambil, S/o Emmanuel K George, residing at Kochumarambil House, Vengaloor Kara, Vazhithala P.O., Pin 685583, Manakkadu Village, Thodupuzha Taluk, Idukki District, do hereby affirm and confirm as follows:-

1. That, I, proposes to develop a Quarry Project in Re-Survey Nos. 354/4, 354/5, 355/1pt., 351/1pt., 350, 352/1pt, at Manakkad Village, Manakkad Grama Panchayat, Thodupuzha Taluk, Idukki District, Kerala.
2. That, the Environment Clearance proceedings number and date are Order No. 1137/EC/SEIAA/KL/2017 dt. 17-03-2018.
3. That, all the conditions stipulated in the Environment Clearance would be scrupulously followed.


**DEPONENT: GEORGE KOCHUPARAMBIL**

**Verification :**

Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein.

**DEPONENT: GEORGE KOCHUPARAMBIL**

Place : Idukki  
Date : 13-04-2018




NOTARY PUBLIC  
J. J. PUTHANATHOTTY  
Kochuparambil  
Thodupuzha Taluk  
Idukki District  
Kerala  
Date: 13/4/2018  
George Kochuparambil  
K. K. MURALI

Solemnly affirmed and signed before me by the deponent known to me on this the 13<sup>th</sup> day of April 2018 at my office at Thodupuzha

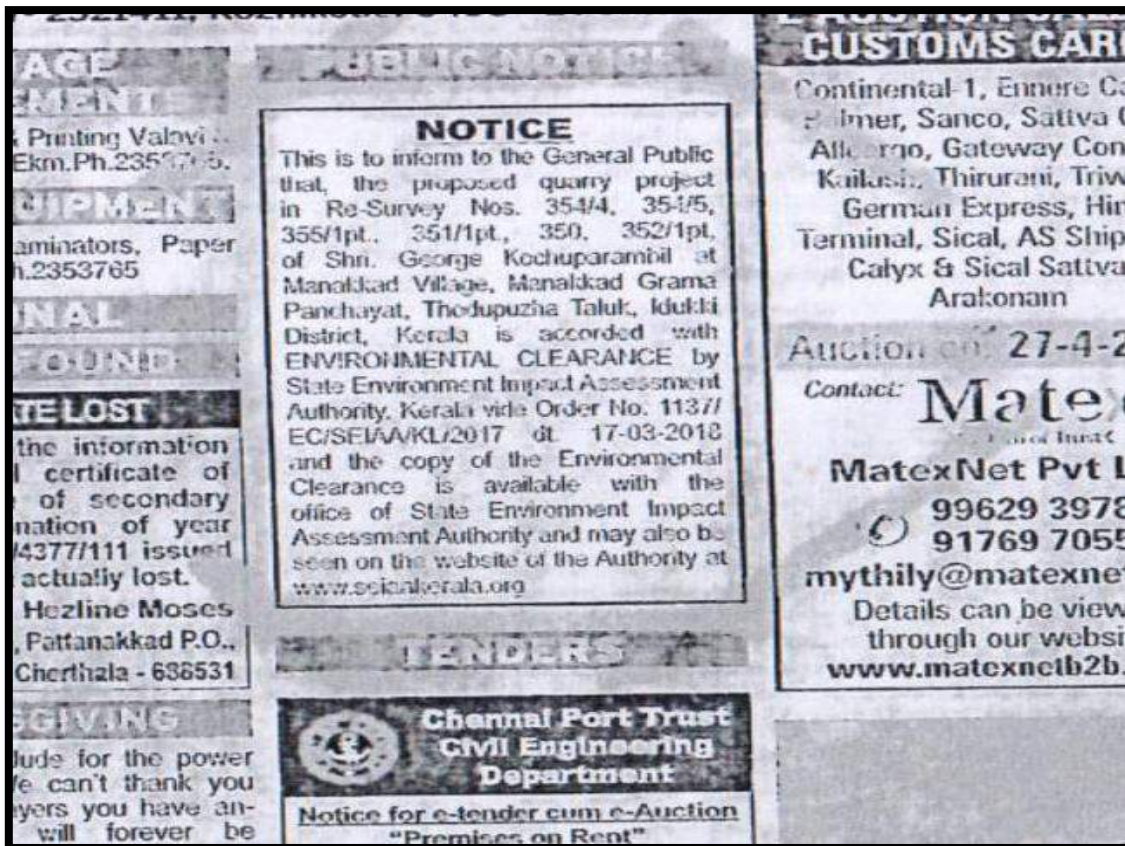
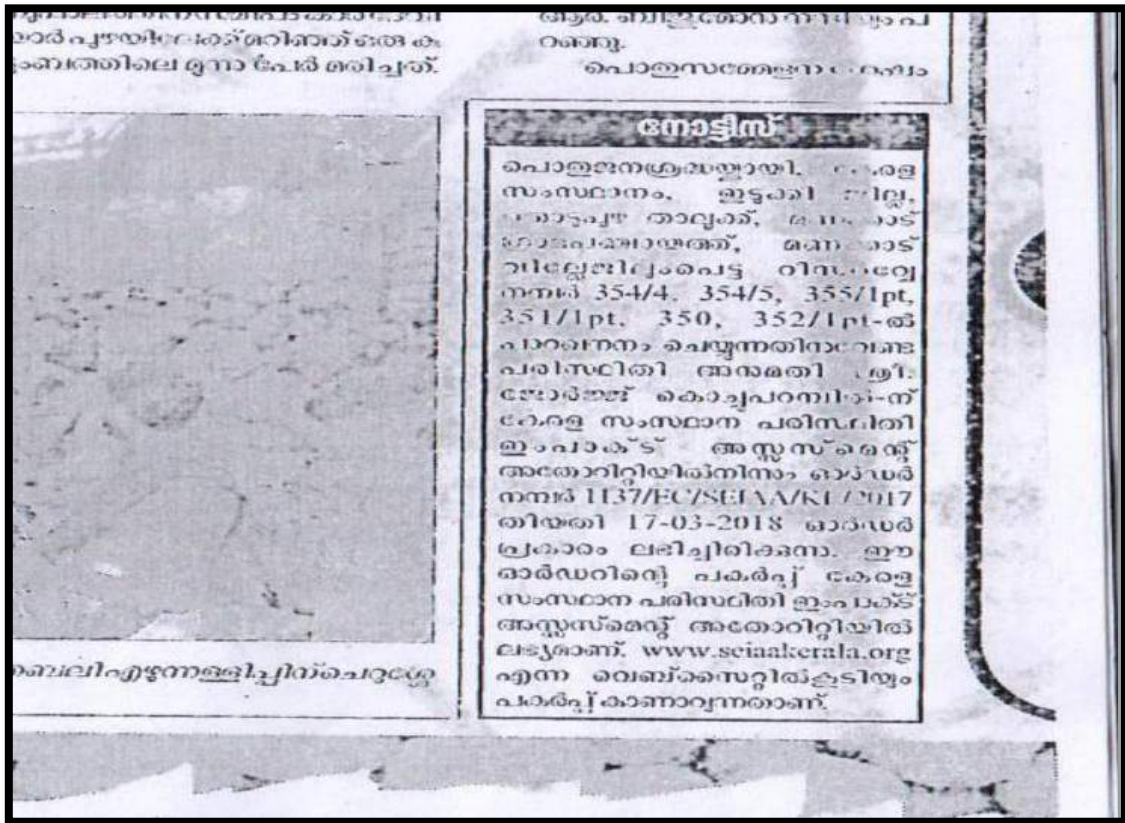
13/4/18

J. J. Puthan  
manually



Affidavit

Annexure No.8



Newspaper Advertisement

Annexure No.9

**KERALA FOREST RESEARCH INSTITUTE**  
 (An Institution of Kerala State Council for Science, Technology and Environment)  
 Peechi - 680 653, Kerala

No. **2034** Bill Date: **7/2/2021**

To: *Cheruvu Peruvattur and Madhuk*  
*Vazhithal Thadupnathan 625583*

Sl No	Item	Unit Price	Quantity	Amount Rs.
1	Boo Ayampile	15	40	600
2	vallatahal	25	20	500
3	karra	15	8	120
4	Marolty	15	20	300
5	Nalty	15	60	900
6	Mullapachan	20	9	180
7	Varhamu	15	40	600
8	Mullalankali	15	35	525
9	Kayyambu	20	25	500
10	Alorri	20	40	800
11	Cheruvu	15	40	600
12	Kummapala	15	30	450
Total				6075

Rupees *Six thousand and seventy five*

Signature of Customer \_\_\_\_\_ Scientist-in Charge *[Signature]*

**KERALA FOREST RESEARCH INSTITUTE**  
 (An Institution of Kerala State Council for Science, Technology and Environment)  
 Peechi - 680 653, Kerala

No. **2035** Bill Date: **7/2/2021**

To: \_\_\_\_\_

Sl No	Item	Unit Price	Quantity	Amount Rs.
13	Kovalam	15	10	150
14	Parra vakkal	15	10	150
15	Adaladalam	15	25	375
16	Vadthunkal	15	25	375
17	Cheruvu	25	10	250
18	Bambay	50	2	100
19	Namika	25	2	50
Total				1450

Rupees *One thousand four hundred and fifty only*

Signature of Customer \_\_\_\_\_ Scientist-in Charge *[Signature]*

**ESTIMATE**

Brought of

M/s. United Granites & Metals  
Vayhi thala, Thodupuzha.

No. 9496348162-0 Date 10.09.2021

QUANTITY	PARTICULARS	RATE	AMOUNT Rs.	P.
2	Cross leaf	70	140	
2	Line Paper	125	250	
1	Thai Seedless Champ	150	150	
1	Apple seed "	150	150	
1	Alshokam	80	80	
1	Champa white	150	150	
27	Vegetables Scava	20	540	
1	" Grow bag	60	420	
			<u>1880</u>	

Total

Signature

Thank You!

**CASH MEMO**

**MADATHIKANDAM NURSERY & FARM PRODUCTS**  
**THODUPUZHA**

Off: OLAMATTOM, Ph: 04862 - 222141, (R) 222949  
 Ph: 04923 - 277204, Mob: 9447613487

No. 3271 Date 6/7/21  
 To United granite and metal  
Kochuparambil - 9744522851

Rate	Item	Nos.	Value
160	Kuttiyady	50N	8000
325	DAT	10N	3750
			11750
	less		600
			<u>11150</u>

E & O E      TOTAL

Best Wishes.....

RAJAGIRI FARM MUTHALAMADA, PALAKKAD



CONSERVING DIVERSITY

**BOTANICAL SERVICES**

Auroville Botanical Gardens  
Auroville 605 101  
Vanur Tk  
Vilupuram Dis  
Tamil Nadu  
INDIA

**GST: 33AAATA0037BXZV**


To: UNITED GRANITES AND METALS  
VAZHITHALA  
P.O THODUPUZHA 685583  
GST NO 32AFJPK9650E1ZH

**30/06/21****Invoice**

Sl no		Med	Sm	Cost
1	Ficus arnottiana (M) - 10	10		2,500.00
2	Ficus microcarpa (M) - 10	10		2,500.00
3	Alangium salviifolium (S) - 10		10	550.00
4	Garcinia spicata (S) - 15		15	825.00
5	Mallotus philippensis (S) - 25		25	1,375.00
6	Suregada angustifolia (M) - 25	25		6,250.00
7	Ixora pavetta (M) - 30 + (S) - 30	25	35	8,175.00
8	Memeyceylon umbellatum (M) - 40	40		10,000.00
9	Glycosmis mauretania (M) - 10	10		2,500.00
10	Pavetta indica (S) - 60		10	550.00
11	Salacia chinensis (M) - 30	30		7,500.00
12	Psydrax diccoccus	25		6,250.00
13	Eugenia bracteata		40	2,200.00
14	Litsea glutinosa		10	
	<b>Total</b>	<b>175</b>	<b>135</b>	<b>51,175.00</b>

GST exempt HSN 0602

Kind regards

  
FOR BOTANICAL SERVICES  
EXECUTIVE

Paul Blanchflower

Auroville Botanical Services is a unit of the Auroville Maintenance Fund

Email: [botanical@auroville.org.in](mailto:botanical@auroville.org.in)

mobile: 9486 144 068

Page 1 of 1



**BOTANICAL SERVICES**

Auroville Botanical Gardens  
Auroville 605 101  
Vanur Tk  
Vilupuram Dis  
Tamil Nadu  
INDIA

CONSERVING DIVERSITY

GST: 33AAATA0037BXZV

To: UNITED GRANITES AND METALS  
VAZHITHALA  
P.O THODUPUZHA 685583  
GST NO 32AFJPK9650EIZH

30/06/21

## Invoice

Sl no		Med	Sm	Cost
1	Nycnathus arbor tristis		3	180.00
2	Duranta erecta		9	350.00
3	Lagrestromia lancestree		9	630.00
4	Plumeria rubra	2		2100.00
	Total	2	21	3,260.00

GST exempt HSN 0602

Kind regards

Paul Blanchflower

Auroville Botanical Services is a unit of the Auroville Maintenance Fund

Email: [botanical@auroville.org.in](mailto:botanical@auroville.org.in)

mobile: 9486 144 068

Page 1 of 1

**Plant Bill**

## Annexure No.10

**POLUCHEM LABORATORIES (P) LTD.**

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030; 8281982322, 9747406085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

**TEST REPORT**


Page 01 of 01

Client Name & Address	Certificate No	PL/AMB/RT/5149/2021
Mr. George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha	Date of issue	07/07/2021
	Date of monitoring	01/07/2021
	Date of sample received	02/07/2021
	Date of analysis started	03/07/2021
	Monitoring location	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.
	Sample description	Ambient air – Near East side boundary
Sample code given by the client	Nil	

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM <sub>10</sub> )	I S 5182 Part 23 2006RA 2012	53.6µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
Particulate Matter (PM <sub>2.5</sub> )	CPCB	24.5 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
Sulphur dioxide	I S 5182 Part 2 2001RA 2017	3.4 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	2.1 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

\*End of the Report\*

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

SPEEJA RANJITH  
QUALITY MANAGER  
POLUCHEM LABORATORIES (P) LTD.



## POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone : 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

### TEST REPORT


Page 01 of 01

Client Name & Address	Certificate No	PL/AMB/RT/5147/2021
Mr. George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha	Date of issue	07/07/2021
	Date of monitoring	01/07/2021
	Date of sample received	02/07/2021
	Date of analysis started	03/07/2021
	Monitoring location	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.
	Sample description	Ambient air – Near North side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM <sub>10</sub> )	I S 5182 Part 23 2006RA 2012	36.5 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
Particulate Matter (PM <sub>2.5</sub> )	CPCB	17.4 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
Sulphur dioxide	I S 5182 Part 2 2001RA 2017	<1 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	<1 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

\*End of the Report\*

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QUALITY MANAGER  
POLUCHEM LABORATORIES (P) LTD.



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### TEST REPORT


Page 01 of 01

Client Name & Address  Mr.George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha	Certificate No	PL/AMB/RT/5148/2021
	Date of issue	07/07/2021
	Date of monitoring	01/07/2021
	Date of sample received	02/07/2021
	Date of analysis started	03/07/2021
	Monitoring location	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.
	Sample description	Ambient air – Near South side boundary
Sample code given by the client	Nil	

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM <sub>10</sub> )	I S 5182 Part 23 2006RA 2012	45.3 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
Particulate Matter (PM <sub>2.5</sub> )	CPCB	22.1 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
Sulphur dioxide	I S 5182 Part 2 2001RA 2017	2.6 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	1.8 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

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Page 01 of 01

Client Name & Address  Mr. George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha	Certificate No	PL/AMB/RT/5148/2021
	Date of issue	07/07/2021
	Date of monitoring	01/07/2021
	Date of sample received	02/07/2021
	Date of analysis started	03/07/2021
	Monitoring location	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki, Kerala.
	Sample description	Ambient air – Near West side boundary
Sample code given by the client	Nil	

PARAMETERS	TEST METHOD	RESULT	Limit as per NAAQS
Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23 2006RA 2012	48.7 µg/m <sup>3</sup>	100 µg/m <sup>3</sup>
Particulate Matter (PM <sub>2.5</sub> )	CPCB	22.4 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
Sulphur dioxide	IS 5182 Part 2 2001RA 2017	5.2 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>
Nitrogen dioxide	IS 5182 Part 06 2006 RA 2017	3.6 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

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QUALITY MANAGER  
POLUCHEM LABORATORIES (P) LTD.

ANALYSIS OF AMBIENT AIR, STACK EMISSION, SOUND, LIGHT, WATER, FUEL OIL, SOIL, AND...

### Ambient Air

## Annexure No. 11


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Page 01 of 01

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>	<b>PL/RT/SD/5150/2021</b>				
Mr. George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha		<b>Date of issue:</b>	07/07/2021				
		<b>Date of monitoring</b>	01/07/2021				
		<b>Monitoring Location</b>	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.				
		<b>Sample Description</b>	Ambient Sound Level –East Side				
<b>HOURLY INTERVAL</b>	<b>RESULT</b>	<b>HOURLY INTERVAL</b>	<b>RESULT</b>				
06.00 AM-07.00 AM	38.6 dB (A)	11.00 PM-12.00AM	34.6 dB (A)				
07.00 AM- 08.00 AM	39.6 dB (A)	12.00 AM-01.00 AM	36.2 dB (A)				
08.00 AM- 09.00 AM	43.6 dB (A)	01.00 AM- 02.00 AM	35.1 dB (A)				
09.00 AM -10.00 AM	44.2 dB (A)	02.00 AM-03.00 AM	35.6 dB (A)				
10.00 AM-11.00 AM	45.6 dB (A)	03.00 AM-04.00 AM	36.4 dB (A)				
11.00 AM-12.00 PM	47.6 dB (A)	04.00 AM -05.00 AM	35.2 dB (A)				
12.00 PM-01.00 PM	48.6 dB (A)	05.00 AM-06.00AM	36.3 dB (A)				
01.00 PM-02.00 PM	46.2dB (A)						
02.00 PM-03.00 PM	45.3 dB (A)						
03.00 PM-04.00 PM	42.3 dB (A)						
04.00 PM-05.00 PM	38.9 dB (A)						
05.00 PM-06.00 PM	38.5 dB (A)						
06.00 PM-07.00 PM	39.2 dB (A)						
07.00 PM-08.00 PM	37.4 dB (A)						
08.00 PM-09.00 PM	36.4 dB (A)						
09.00 PM-10.00 PM	37.4 dB (A)				<b>LDay</b>	46.3 dB (A)	
10.00 PM-11.00 PM	35.4 dB (A)				<b>LNight</b>	35.2dB (A)	

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A),

Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)

Day Time from 06.00 am to 10.00 pm &amp; Night Time from 10.00 pm to 06.00 am

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Authorized Signatory



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Page 01 of 01

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>		PL/RT/SD/5155/2021							
Mr.George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha		<b>Date of issue:</b>		07/07/2021							
		<b>Date of monitoring</b>		01/07/2021							
		<b>Monitoring Location</b>		M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.							
		<b>Sample Description</b>		Ambient Sound Level –South Side							
<b>HOURLY INTERVAL</b>		<b>RESULT</b>		<b>HOURLY INTERVAL</b>		<b>RESULT</b>					
06.00 AM-07.00 AM		36.2 dB (A)		11.00 PM-12.00AM		34.2 dB (A)					
07.00 AM- 08.00 AM		39.4 dB (A)		12.00 AM-01.00 AM		35.2 dB (A)					
08.00 AM- 09.00 AM		38.2 dB (A)		01.00 AM- 02.00 AM		34.1 dB (A)					
09.00 AM -10.00 AM		41.3 dB (A)		02.00 AM-03.00 AM		31.3 dB (A)					
10.00 AM-11.00 AM		42.3 dB (A)		03.00 AM-04.00 AM		32.4 dB (A)					
11.00 AM-12.00 PM		41.4 dB (A)		04.00 AM -05.00 AM		34.7 dB (A)					
12.00 PM-01.00 PM		45.1 dB (A)		05.00 AM-06.00AM		34.3 dB (A)					
01.00 PM-02.00 PM		46.3 dB (A)									
02.00 PM-03.00 PM		48.5 dB (A)									
03.00 PM-04.00 PM		46.3 dB (A)									
04.00 PM-05.00 PM		45.1 dB (A)									
05.00 PM-06.00 PM		40.1 dB (A)									
06.00 PM-07.00 PM		39.6 dB (A)									
07.00 PM-08.00 PM		38.4 dB (A)									
08.00 PM-09.00 PM		37.4 dB (A)									
09.00 PM-10.00 PM		36.3 dB (A)						LDay		42.6 dB (A)	
10.00 PM-11.00 PM		35.4 dB (A)						LNight		33.7 dB (A)	

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time +65 dB(A),Night Time 55dB(A), Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)  
 Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

\*End of the Report \*

For PoluChem Laboratories (P) Ltd.

*Signature*  
**SNEHA SANKH**  
 QUALITY MANAGER  
 POLUCHEM LABORATORIES (P) LTD.



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<b>Client Name &amp; Address</b>	<b>Certificate No:</b>	<b>PL/RT/SD/5153/2021</b>	
Mr. George Kochuparambil Kochuparambil House Vazhithala P.O Thodupuzha	Date of issue:	07/07/2021	
	Date of monitoring	01/07/2021	
	Monitoring Location	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.	
	Sample Description	Ambient Sound Level -West Side	
<b>HOURLY INTERVAL</b>	<b>RESULT</b>	<b>HOURLY INTERVAL</b>	<b>RESULT</b>
06.00 AM-07.00 AM	43.6 dB (A)	11.00 PM-12.00AM	35.2 dB (A)
07.00 AM- 08.00 AM	41.2 dB (A)	12.00 AM-01.00 AM	34.1 dB (A)
08.00 AM- 09.00 AM	45.6 dB (A)	01.00 AM- 02.00 AM	33.6 dB (A)
09.00 AM -10.00 AM	41.3 dB (A)	02.00 AM-03.00 AM	36.4 dB (A)
10.00 AM-11.00 AM	48.7 dB (A)	03.00 AM-04.00 AM	37.6 dB (A)
11.00 AM-12.00 PM	49.6 dB (A)	04.00 AM -05.00 AM	38.5 dB (A)
12.00 PM-01.00 PM	48.5 dB (A)	05.00 AM-06.00AM	39.4 dB (A)
01.00 PM-02.00 PM	47.6 dB (A)		
02.00 PM-03.00 PM	48.5 dB (A)		
03.00 PM-04.00 PM	49.6 dB (A)		
04.00 PM-05.00 PM	42.3 dB (A)		
05.00 PM-06.00 PM	41.2 dB (A)		
06.00 PM-07.00 PM	38.5 dB (A)		
07.00 PM-08.00 PM	39.6 dB (A)		
08.00 PM-09.00 PM	38.4 dB (A)		
09.00 PM-10.00 PM	37.1 dB (A)	LDay	47.5 dB (A)
10.00 PM-11.00 PM	36.3 dB (A)	LNight	36.3 dB (A)

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A),  
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)  
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

\*End of the Report \*

For PoluChem Laboratories (P) Ltd.

Authorized Signatory  
QUALITY MANAGER

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### TEST REPORT

Page 01 of 01

<b>Client Name &amp; Address</b>		<b>Certificate No:</b>	PL/RT/SD/5154/2021				
Mr. George Kochuparambil Kochuparambil House Vazhithala .P.O Thodupuzha		<b>Date of issue:</b>	07/07/2021				
		<b>Date of monitoring</b>	01/07/2021				
		<b>Monitoring Location</b>	M/s. United Granites & Metals Re. Sy.No.s: 354/4,354/5,355/1 pt, 351/1pt,350,352/1pt Village : Manakkad Taluk : Thodupuzha District : Idukki,Kerala.				
		<b>Sample Description</b>	Ambient Sound Level –North Side				
<b>HOURLY INTERVAL</b>	<b>RESULT</b>	<b>HOURLY INTERVAL</b>	<b>RESULT</b>				
06.00 AM-07.00 AM	39.8 dB (A)	11.00 PM-12.00AM	33.4 dB (A)				
07.00 AM- 08.00 AM	37.4 dB (A)	12.00 AM-01.00 AM	32.6 dB (A)				
08.00 AM- 09.00 AM	40.2 dB (A)	01.00 AM- 02.00 AM	30.1 dB (A)				
09.00 AM -10.00 AM	42.3 dB (A)	02.00 AM-03.00 AM	31.3 dB (A)				
10.00 AM-11.00 AM	40.1 dB (A)	03.00 AM-04.00 AM	35.4 dB (A)				
11.00 AM-12.00 PM	45.6 dB (A)	04.00 AM -05.00 AM	36.2 dB (A)				
12.00 PM-01.00 PM	46.8 dB (A)	05.00 AM-06.00AM	35.1 dB (A)				
01.00 PM-02.00 PM	47.3 dB (A)						
02.00 PM-03.00 PM	46.5 dB (A)						
03.00 PM-04.00 PM	41.2 dB (A)						
04.00 PM-05.00 PM	40.3 dB (A)						
05.00 PM-06.00 PM	39.8 dB (A)						
06.00 PM-07.00 PM	38.5 dB (A)						
07.00 PM-08.00 PM	37.4 dB (A)						
08.00 PM-09.00 PM	36.3 dB (A)						
09.00 PM-10.00 PM	35.1 dB (A)				LDay	46.5 dB (A)	
10.00 PM-11.00 PM	33.2 dB (A)				LNight	32.1 dB (A)	

Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A),  
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)  
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

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For PoluChem Laboratories (P) Ltd.

Authorized Signatory

**SREEJA RAMESH**

### Ambient Noise

## Annexure No. 12



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### TEST REPORT

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Ref.No. PL/RT/OW/5152/2021

Name & address of customer

Date of Issue: 07/07/2021

: M/s. United Granites & Metals

Re. Sy.No.s: 354/4,354/5,355/1 pt,

351/1pt,350,352/1pt

Village : Manakkad

Taluk : Thodupuzha

District : Idukki,Kerala

Sample drawn by

: PoluChem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Borewell water

Date of sample collected

: 02/07/2021

Date of analysis started

: 03/07/2021

Date of completion of analysis

: 06/07/2021

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	10 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	3 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.64	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	98 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983 RA2014	24.1 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986 RA2014	20.3 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988 RA2014	17.4 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	6.32 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	1.87 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.25 mg/l	1.0 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 24 – 1986 RA2009	10.2 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59– 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	Absent	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For PoluChem Laboratories (P) Ltd.

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Authorized signatory

**SREEJA RAMESH**  
QUALITY MANAGER

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### TEST REPORT

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Ref.No. PL/RT/SW/5151/2021  
Name & address of customer

Date of Issue: 07/07/2021  
: M/s. United Granites & Metals  
Re. Sy.No.s: 354/4,354/5,355/1 pt,  
351/1pt,350,352/1pt  
Village : Manakkad  
Taluk : Thodupuzha  
District : Idukki,Kerala

Sample drawn by : PoluChem Laboratory Sample Collector  
Sample description : Water Sample  
Location of sampling : Surface Water  
Date of sample collected : 02/07/2021  
Date of analysis started : 03/07/2021  
Date of completion of analysis : 06/07/2021

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	14 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	5 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	5.62	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	34 mg/l	500 mg/l
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983 RA2014	10.2 mg/l	200 mg/l
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986 RA2014	8.6 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl <sup>-</sup>	IS 3025 (P) 32 – 1988 RA2014	7.42 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	3.64 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	1.56 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.54 mg/l	1.0 mg/l
Sulphate as SO <sub>4</sub>	IS 3025 (P) 24 – 1986 RA2009	6.3 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Biochemical Oxygen Demand (3 days at 27 <sup>o</sup> C)	IS 3025 (P) 44 – 1993RA 2014	4.1 mg/l	--
Chemical Oxygen Demand	IS 3025 (P) 58 – 2006 RA2017	36 mg/l	--
Dissolved Oxygen	IS 3025 (P) 44 – 1989RA 2014	5.2 mg/l	--
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59– 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	90.	Absent
Ecoli (Present or-Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For PoluChem Laboratories (P) Ltd.



\* End of the report\*

Authorized signatory  
SREEDHARAN  
QUALITY MANAGER

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### Ambient water

## Annexure No. 13

R S VASANTH

Cert No. MR/SZ/1162

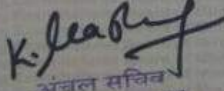
भारत सरकार/Government of India  
खान अधिनियम, 1952/Mines Act, 1952  
खनन परीक्षा बोर्ड/Board of Mining Examinations  
खनन मेट सक्षमता प्रमाण-पत्र  
MINING MATE'S CERTIFICATE OF COMPETENCY  
(केवल ओपेनकास्ट खानों तक सीमित)  
(Restricted to mines having opencast workings only)  
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)  
(Under the Metalliferous Mines Regulations, 1961)

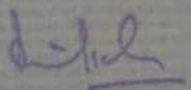
श्री **वसंत आर एस** पुत्र **एस. रामा चंद्रन** है, को अपनी  
जिनकी जन्म तिथि **08.03.1998**  
आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण  
प्रस्तुत करने एवं दिनांक **20.02.2020** को **जीवीटीसी, त्रिची** केन्द्र पर आयोजित  
विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र  
प्रदान किया जाता है।

Shri **VASANTH R S** son of **S. RAMA CHANDRAN**  
born on **08.03.1998** having given satisfactory evidence of his age,  
medical fitness, good character, literacy and prescribed experience of working in metalliferous  
mines and having passed the prescribed examination held at **CVT, TRICHY**  
centre on **20.02.2020** is hereby granted **MINING MATE'S CERTIFICATE OF**  
**COMPETENCY** restricted to mines having opencast workings only.

च निशान  
Left hand impression

अंचल सचिव  
खनन परीक्षा बोर्ड  
Zonal Secretary  
Board of Mining  
Examinations

  
अंचल सचिव  
खनन परीक्षा बोर्ड  
दक्षिणी अंचल, बेंगलूर  
Zonal Secretary  
Board of Mining Examination  
Southern Zone, Bengaluru.

  
अध्यक्ष  
खनन परीक्षा बोर्ड  
Chairman  
Board of Mining  
Examinations

Signed and Sealed  
Date **11.09.2020**

Certificate of mining mate