

COMPLIANCE REPORT

**M/S NELLIKUNNU GRANITE &
CRUSHER PVT. LTD**

(Quarry Project)

**KOZHIKODE DISTRICT
KERALA**

APRIL 2020 - SEPTEMBER 2020

NELLIKKUNNU GRANITE AND CRUSHERS PVT LTD

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Dt.03-11-2020

To,
The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E& F Wing, Kendriya Sadan,
Koramangala, Bangalore – 560034

Ref :- File No. 539/SEIAA/EC4/3882/2014

Sub :- Environment Clearance – Quarry project at Maruthonkara
village, Maruthonkara Panchayat, Vatakara, Kozhikode District, Kerala.–
Compliance Report – First half - Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for
7.8991 ha. by order No. 539/SEIAA/EC4/3882/2014, dated 11-12-2015 by State
Environmental Impact Assessment Authority, Kerala. The compliance report of **First
half** (April 2020 – September 2020) to the specific and general conditions of the
Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For M/s Nellikkunnu granite & crushers Pvt. Ltd

For Nellikkunnu Granite & Crushers

Mr. Hameed Cheruvu
Managing Director



Encl: - As Above

Copy to : The Chairman & The Member Secretary
State Environment Impact Assessment Authority (SEIAA)
'Devi Kripa', Pallimukku,
Pettah P.O., Thiruvananthapuram,
Kerala – 695 024.

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 539/SEIAA/EC4/3882/2014

DATED: 15.12.2015

BY

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA)**

FOR

**BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT**

AT

**SURVEY NO. 523/1PART, 571/1PART & 567 PART
MARUTHONKARA VILLAGE, MARUTHONKARA PANCHAYAT,
VATAKARA,
KOZHIKODE DISTRICT, KERALA**

BY

**NELLIKKUNNU GRANITE & CRUSHERS PVT LTD
KOZHIKODE DISTRICT
KERALA**

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INTRODUCTION

Quarry project of **M/s Nellikkunnu granite & crushers Pvt. Ltd**, is situated at survey Nos. 523/1part, 571/1part & 567 part at Maruthonkara village, Maruthonkara Panchayat, Vatakara, Kozhikode District, Kerala.

The quarry project was accorded with the environmental clearance (EC) by state environmental impact assessment authority on 15-12-2015. The half yearly compliance report needs to be submitted as part of general condition No.37 of Environmental Clearance order by the project proponent. The First half compliance report to the specific conditions and general conditions of the Environmental Clearance for the period of **April 2020 - September 2020** is being submitted.

SALIENT FEATURES OF THE PROJECT

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 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) dt.24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Geographical location of the project site is in 11° 39' 03.17" N to 11° 38' 53.42" N and 75° 49' 42.25" E to 75° 49' 25.16" E. The land use classification as per revenue records is rocky land with private own land. The present land use is rocky land with quarrying activities. The quarry is interlinked with a Crusher unit located within the complex. The exploitation of mineral is being done from 171 m MSL to 71 m MSL. The ultimate depth of the mine workings is estimated to be 110 m MSL. The approximate total water demand is 16 KLD and total power requirement is 75 kw. The nearest house is located at 127m south west of the quarry.

BRIEF OF THE PROJECT

Type of Project	Quarry project (building stone)
Name of the project	M/s Nellikkunnu Granite & Crusher Pvt. Ltd.
Category of the project	B2
GPS Locations	11 ⁰ 39' 03.17" N to 11 ⁰ 38' 53.42" N 75 ⁰ 49' 42.25" E to 75 ⁰ 49' 25.16" E
Address for correspondence	M/s Nellikkunnu Granite & Crushers Pvt. Ltd. Nelliyote House, Paleri Post, Kozhikode, Kerala-673508
Name, Phone Number & e-mail id of responsible persons	1. Mr. Hameed Cheruveri Managing Director hameedc4444@gmail.com 08086004444 2. Anil kumar TA Manager 9744040093
Main Features	
Total area under Environment Clearance	07.8991 Ha.
Mineable reserves	87,50,000 MTA
Production	3,50,000MTA
Life of Mine	25 years
Highest and lowest elevation	171m MSL to 71 MSL
Crusher unit	Yes, within the project site
Environmental Settings	
Nearest stream	Kadantharapuzha, 0.5 km.
Nearest house	127 m, SW
Nearest town	Pasukkadavu, 2 km., NE
Nearest worship place	Noor Juma Masjid Centre Mukku, 1 km., E
Nearest hospital	Maruthonkara Govt. Dispensary, 6km, W
Seismic zone	Zone-III, Moderate damage risk zone as per BMTPC, Vulnerability atlas Seismic zone of India IS: 1893-2002.

COMPLIANCE REPORT (SPECIFIC CONDITIONS) PART A

PART - A – SPECIFIC CONDITIONS

01	Proper fencing and sign boards must be fixed all around.	Complied
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Compliance:

The project proponent will install fencing where it is necessary inside the mining area. Outer fencing will help to prevent the falling of animals/human being/dumping of garbage etc. The project has installed fencing around the mining area. The signage is installed in the project site. The photograph of barbed metal wire fencing and sign board is provided in **Plate No.1**. The copy of bill purchased for barbed wire is attached as **Annexure No.1**

02	Entry of large vehicles may be restricted to the approach road	Complied
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Compliance:

At present, the small vehicles are being used for the transportation of minor minerals. As per the direction of State Environment Impact Assessment Authority (SEIAA), Kerala, the project has restricted entry of large vehicles along the approach road to the quarry site for transportation of minerals.

03	Retaining wall should be maintained at the lower slope to avoid leaching	Complied
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Compliance:

The project has constructed retaining wall at the lower slope to avoid leaching and runoff from the site. This will be maintained in a good manner to direct the storm water to the pond. The photograph of the retaining wall is provided as **Plate No. 2**.

04	To the extent possible local biodiversity management Committee shall be involved in the environmental management/restoration activities.	Noted
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Compliance:

The project proponent has given special thrust to environmental management in the project site. The project proponent has started to involve bio diversity management committee of Local self Government in environmental management/ restoration activities in the quarry site

05	Reclamation and eco- restoration of quarry site should be done by planting native species.	Complied
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Compliance:

As part of concurrent eco restoration, the project planted various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. Reclamation and eco restoration will be done by planting native species. The copy of the bill is attached as **Annexure No. 2**. The details are provided in Table No.3. The photograph of the plantation is given in **Plate No. 3**.

COMPLIANCE REPORT (GENERAL CONDITIONS) PART B

PART – B – GENERAL CONDITIONS

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

The project proponent has developed rain water harvesting pond in the quarry site as Rain Water Harvesting structure. The pond situated at the lowest level of project site. The surface runoff is channelized to the pond through garland drains. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission. The photograph of Rain water collection pond is provided in **Plate No. 4**.

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

The Environmental Monitoring Cell (EMC) was formed with Mr. Hameed C as head of the monitoring cell. The EMC meetings of the cell convene periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below in the **Table No.1**. The NABET accredited consultant helps the company to upkeep the environment friendly mining

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

Sl. No.	Post	Name
1.	Head of the monitoring cell	Hameed C
2.	Head in charge (Environment)	Anil Kumar T A
3.	Environment Officer in charge at Site	Anoop A
4.	Name of the Environment Consultant	M/s Environmental Engineers & Consultants Pvt. Ltd. (NABET Accredited Consultancy)

03	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.	Being complied
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Compliance:

The project proponent has been planting various tree saplings and native species in the project site to enhance the eco – diversity in the industry. There is also natural vegetation including trees, shrubs and climbers are presents in the sides of road and parking area. This will help to reduce air and sound pollution. The copy of bill from nursery is given in **Annexure No.2** and the photographs of avenue trees planted in the road side are given in **Plate No.5**. The details of vegetation are given below.

TABLE 2 Details of the natural vegetation existing along the road side

Sl. No.	Scientific Name	Common Name	Family	Type
1	Bambusoideae	Bamboo	Poaceae	Tree
2	Murraya koenigii	Curry tree	Rutaceae	Tree
3	Terminalia arjuna	Maruthu	Combretaceae	Tree
4	Phyllanthus emblica	Nelli	Phyllanthaceae	Tree
5	Xylia xylocarpa	Erul	Fabaceae	Tree
6	Swietenia mahagoni	Mahagony	Meliaceae	Tree
7	Anacardium occidentale	Kasumavu	Anacardiaceae	Tree
8	Artocarpus heterophyllus	Plavu	Moraceae	Tree
9	Chromolaena odorata	Communist-pacha	Compositae	Shrub
10	Cocos nucifera	Thengu / Coconut	Arecaceae	Tree
11	Mangifera indica	Mavu	Anacardiaceae	Tree
12	Pennisetum orientale	Oriental fountain grass	Poaceae	Herb

13	<i>Tabernaemontana alternifolia</i>	Kunnanpala	Apocynaceae	Tree
14	<i>Tectona grandis</i>	Thekku	Verbenaceae	Tree
15	<i>Ziziphus oenopolia</i>	Thodalli	Rhamnaceae	Climber

04	Maximum possible solar energy generation and utilization shall be ensures as an essential part of the project.	Complied
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Compliance:

The installation of solar can reduce the consumption from conventional sources therefore the project proponent has installed solar streetlights in the project site to use maximum renewable energy to reduce electrical consumption from KSEB. The photograph of solar street lights is provided in **Plate No.6**. The purchasing bill of solar street light is given in **Annexure No. 3**.

05	Sprinklers shall be installed and used in the project site to contain dust emissions.	Complied
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Compliance:

The sprinklers are installed in the project site and in and around the crusher unit in order to prevent dust emission. To arrest the dust emission form the approach road and the haulage road, the project proponent has deployed a tanker vehicle to splashes water. The photograph of effective utilization of sprinklers is provided at **Plate No. 7**.

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

Eco restoration is in an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining area. The project proponent started to plant various saplings in and around the project site. The list of tree/shrub/herb saplings planted in the project site is given below in **Table No. 3**.

TABLE 3 Details of the saplings planted within the project area

Sl. No.	Scientific Name	Common Name	Family	Habitat
1	Bambusoideae	Bamboo	Poaceae	Tree
2	Murraya koenigii	Curry tree	Rutaceae	Tree
3	Terminalia arjuna	Maruthu	Combretaceae	Tree
4	Phyllanthus emblica	Nelli	Phyllanthaceae	Tree
5	Xylia xylocarpa	Erul	Fabaceae	Tree
6	<i>Artocarpus heterophyllus</i>	Plavu	<i>Moraceae</i>	Tree
7	<i>Capsicum frutescens</i>	Kantharimulaku	<i>Solanaceae</i>	Herb
8	<i>Carica papaya</i>	Papaya	<i>Caricaceae</i>	Tree
9	<i>Cocos nucifera</i>	Thengu	<i>Arecaceae</i>	Tree
10	<i>Curcuma longa</i>	Manjal	<i>Zingiberaceae</i>	Herb
11	<i>Mangifera indica</i>	Mavu	<i>Anacardiaceae</i>	Tree
12	<i>Musa paradisiaca</i>	Vazha	<i>Musaceae</i>	Herb
13	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
14	<i>Tectona grandis</i>	Thekku	<i>Verbenaceae</i>	Tree
15	<i>Tamarindus indica</i>	Tamarind	<i>Fabaceae</i>	Tree
	<i>Aegle marmelos</i>	Koovalam	<i>Rutaceae</i>	Tree

07	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.	Will be complied
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Compliance:

After closure of the mine, the project proponent is intending to retain 10 percent of total excavated pit as rain water storage area. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area.

08	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented	Complied
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Compliance:

As part of inclusive growth of the community, the project proponent has executed various activities under Corporate Social Responsibility/ Corporate Environmental Responsibility of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The receipt of donation is given in **Annexure No. 4**. The details of are given below in the table. The photograph of CSR activity is provided at **Plate No.8**.

Table No. 4 The details of performed activities under CSR/CER

Sectors	Activities	Beneficiaries	Amount spent in Rs.
Education	Donation	IBNK Education Trust	10000
Health	Donation	Mulankunnu Relief Committee Food Distribution (28 Families)	28,000
	Donation	Mulankunnu Relief Committee Food Distribution (28 Families)	28,000
	Donation	Mulankunnu Relief Committee Food Distribution (28 Families)	28,000
	Donation	Mulankunnu Relief Committee Food Distribution (28 Families)	28,000
	Donation	Centermukk Relief Committee Food – Pashukkadavu Distribution (26 Families)	25,000
	Donation	Centermukk Relief Committee Food – Pashukkadavu Distribution (26 Families)	25,000
	Donation	Centermukk Relief Committee Food – Pashukkadavu Distribution (26 Families)	25,000
	Donation	Centermukk Relief Committee Food – Pashukkadavu Distribution (26 Families)	25,000

	Donation	Bakshya Danya Vidharanam – Community Kitchen	40,000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
	Donation	Bakshya Danya Vidharanam Maruthenkara Grama Panchayath (78)	78000
Infrastructure Development	Materials	NSS Unit A J John HSS Chathankootunada	4800
	Donation	Ashokan – For Electrification	8000
		Ashokan – For Sanitation Facilities	3700
Social	Donation	Kerala Janakshema Samithi	6500
	Donation	Thanal charity society	50000
	Donation	CMDRF	49000
Total			852000

09	The lease are shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.	Complied
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Compliance:

To demarcate the lease area, the project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. All the boundary indicators

(boards, stores, markings etc) will be protected at all times and shall be conspicuous. The purchase bill of materials is given in **Annexure No.1**. The photograph of barbed metal wire fencing is provided in **Plate No.1**.

10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.	Complied
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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 in the quarry site. Time of blasting in the quarry is between 10.00 am to 4.00 pm on all working days. The photograph of alarm is given in **Plate No. 9**.

11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Complied
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Compliance:

To reduce noise level in the project site, the project proponent has implemented mitigate masseurs. 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 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 maintaining to minimize the ground vibration intensity.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

12	Quarrying activities should be limited to day time as per KSPCB guidelines.	Complied
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Compliance:

Quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution. The quarry working time is 8.00 am to 5.00 pm.

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

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

14	A licensed person should supervise/control the blasting operations.	complied
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Compliance:

The project proponent has appointed mining mates, Blaster, Short Fire and Foreman in the site to supervise/control exploitation of minor minerals including blasting at the project site. **Annexure No.5** shows the certificate of Licensed Persons.

15	Access roads to the quarry shall be tarred to contain dust	Complied
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	emissions that may arise during transportation of materials.	
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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 of 600 meter 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. The photograph of road is attached as **Plate No. 10.**

16	Overburden materials should be managed within the site and the old quarries, if any, should be restored.	Complied
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Compliance:

In a building stone quarry project, the overburden and topsoil need to extract during the time of mining, these natural resources are staked in the project site. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site. To prevent soil erosion grass is planted on the overburden and topsoil. This will be used for plantation, haulage roads and land filling in the mining area. The photograph of over burden is attached as **Plate No.11.**

17	Height of the benches should not exceed 5m and width should not be less than 5m.	Complied
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Compliance:

The quarrying has been carrying out as per benching system To enhance safety and conserve environment, the project proponent is extracting the minerals by creating benches. The benches will not exceed 5 meters of height. The project proponent maintains the width of benches minimum of 5 meters **Plate No.12** showing the work progressing in the quarry area.

18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Noted
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Compliance:

The project proponent is using blasting mat to reduce fly rocks during blasting. The project is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community and the project is also assure the maximum PPV is under 10.

19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Will be complied
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Compliance:

Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The instruction regarding to this has given to the mines manager.

20	No mining operations should be carried out at places having a slope greater than 45°.	Noted
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Compliance:

There is no area seen with slope greater than 45° high in the E C obtained area. The project proponent is extracting building stone in the area where Environment Clearance and Lease is obtained.

21	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.	Complied
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Compliance:

To reduce the impact of sound to the labours in the unit, the project proponent has provided ear plugs. And there is a crusher unit functioning in the project site; the machines of crusher unit are housed with solid bricks. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within

prescribed standards. The project proponent is trying to enhance the vegetative cover by planting more tree saplings

22	The workers on the site should be provided with the required protective equipments such as ear muffs, helmet, etc	Complied
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Compliance:

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to labours in the quarry site in order to ensure the safety of workers in working site. The photograph of the workers with PPE is given in the **Plate No. 13**. The copy of bill purchased for Personal Protective Equipments is attached as **Annexure No. 6**.

23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Being complied
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Compliance:

The proponent is very conscious to prevent all quarry waste to enter in the public drainage or stream. The project proponent has constructed storm water drains in the lower slopes of the project area for effective management of storm water. This helps to channelize the storm water to the rain water collection pond and the most of the debris will be settled down in the bottom of the pond. The clarifiers will be installed soon. The photograph of drain is provided in **Plate No. 14**.

24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Complied
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Compliance:

To avoid dust emission while transportation of materials, the project proponent assured the trucks were covered before it leaving the project site. A photograph of covered trucks is provided in **Plate No. 15**.

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

As part of concurrent eco restoration, the project proponent has planted various saplings in the project area as a compensation of loss of trees while clearing the land for mining. The list of tree saplings planted in the project site as part of eco-restoration is provided in **Table No 3**.

26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Complied
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Compliance:

The volume of used oil is low in the industry, a major portion of used oil is using as lubricant in the project site. The execs have been giving to agencies approved by Pollution Control board.

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

Explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire. The photograph of the magazine is provided in **Plate No.16**.

28	A minimum buffer distance of hundred meters from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	Complied
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Compliance:

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 127 meter distance to the nearest house from the boundary of mining area, the KSPCB condition is 50 meter.

29	200 m buffer distance should be maintained from forest boundaries.	Complied
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Compliance:

There is no forest area near to the project site. The nearest forest is 6 km away from the project site.

30	Consent from Kerala Pollution Control Board under water and Air act(s) should have been obtained before initiating activity.	Complied
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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*” from Kerala State Pollution Control Board is provided in **Annexure No.8**.

31	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.	Complied
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Compliance:

The certificates obtained from other concerned statutory authorities are enclosed in **Annexure No.7, 8, 9, 10 &11**.

TABLE 5 – APPROVALS FROM COMPETENT AUTHORITIES

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	539/SEIAA/EC4/3882/2014 Dated 15-12-2015
“ <i>Consent to Operate</i> ” (Renewal)	Kerala State Pollution Control Board	PCB/KKD/DO/ICO/1801/2018 Dated : 03-08-2018

Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/1620(E71339) Dated 122-01-2018
License for quarry operations	Gram Panchayath	A7-767/2020/2020-21-2 dated 28-12-2020
Permit order	Directorate of Mining and Geology	KOZ/QL/2017/4/MP- 28/2019/28387 Dated 24-09-2019

32	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority	Noted
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Compliance:

The project is running as per plan submitted in Environmental Impact Assessment Authority, Kerala. At present there is no change in the scope of the project. The project proponent will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.

33	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.	Noted
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Compliance:

If the Authority insists to add additional safeguards and measures in the mining industry for safety and environmental sustainability, the project proponent will be complied with.

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,	Being complied
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	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.	
--	---	--

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

1. **The Environment Protection Act,1986**
2. **Water (Prevention and Control of Pollution) Act, 1974**
3. **The Air (Prevention and Control of Pollution) Act, 1981**
4. **The Public Liability (Insurance) Act,1991**
5. **Municipal Solid Waste (Management and Handling) Act,2016**
6. **Hazardous and Other Wastes (Management and handling) Rules, 2016.**
7. **EIA notification, 2006**
8. **Kerala Miner Mineral concession Rules 2016**

35	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 www.seiaakerala.org. <u>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.</u>	Complied
-----------	---	-----------------

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.12**. The details are given below in the table.

Table No. 6 - Details of advertisement in news paper

Sl. No	News paper	Language	Date of edition
01	The New Indian express	English	02-01-2016
02	Malayala Manorama	Malayalam	02-01-2016

36	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.	Complied
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Compliance:

A copy of the Environment Clearance letter was submitted to the Panchayat Office. The acknowledgement received from the Panchayat office is attached in **Annexure 13**. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore does not give the copy of clearance latter to anyone.

37	The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hand 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 the Directorate of Environment and Climate Change, Govt. of Kerala.	Being Complied
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Compliance:

The compliance report is being submitted to the Directorate of Environment and Climate Change, Govt. of Kerala and also to the Regional Office of MoEF&CC, Govt. of India as mail. Result of monitored data is attached as **Annexure No.14, 15 & 16.**

38	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 extant of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.	Complied
----	--	----------

Compliance:

The details of the environmental clearance has prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font was installed. The photograph of the board is attached as **Plate No. 17.**

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.	Complied
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Compliance:

An assurance in the form of affidavit was already submitted to SEIAA Kerala.

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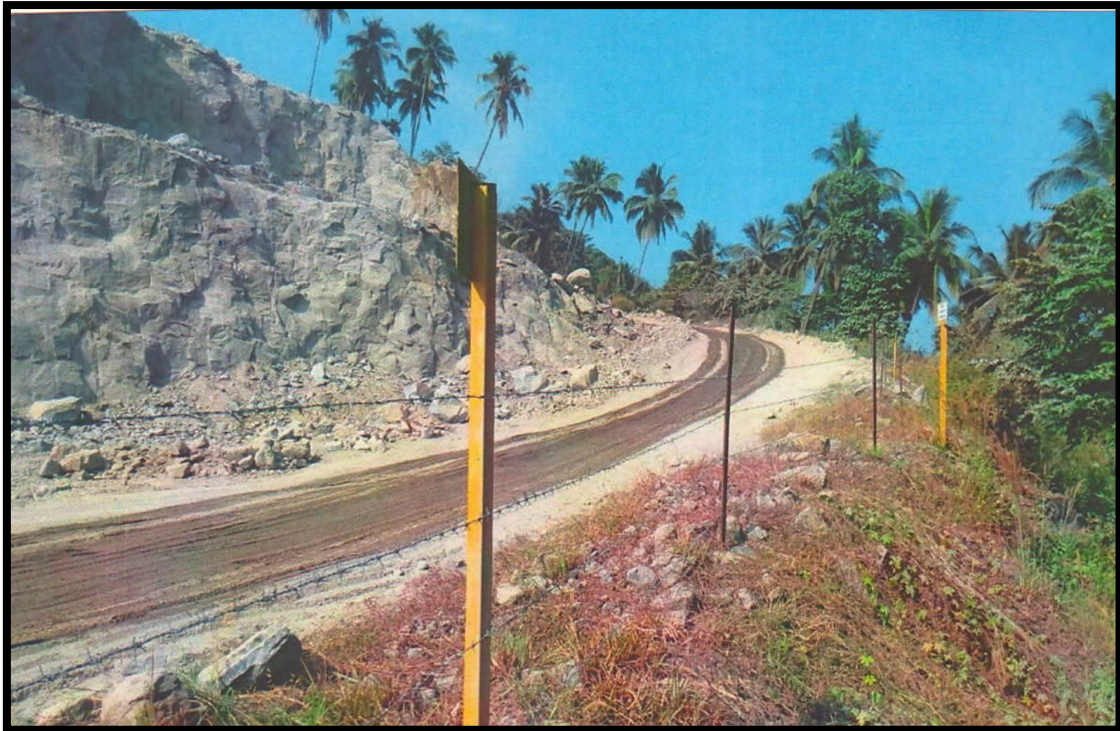
Compliance:

The project will give priority to the conditions stipulated in the Environment clearance Order for its execution.

PLATES

(Photographs of project)

Plate No.1



**Fencing
Plate No. 2**



Retaining wall

Plate No. 3



Eco restoration

Plate No.4



Rain Water Harvesting Pond

Plate No.5



Avenue Trees

Plate No.6



Solar Street Light

Plate No.7



Sprinkler

Plate No.8



Activity under CSR

Plate No.9



Warning Alarm

Plate No.10



Tarred Road

Plate No.11



Stacked Top soil

Plate No.12



Benches under progress

Plate No.13



Labors with PPE

Plate No.14



Drainage

Plate No.15



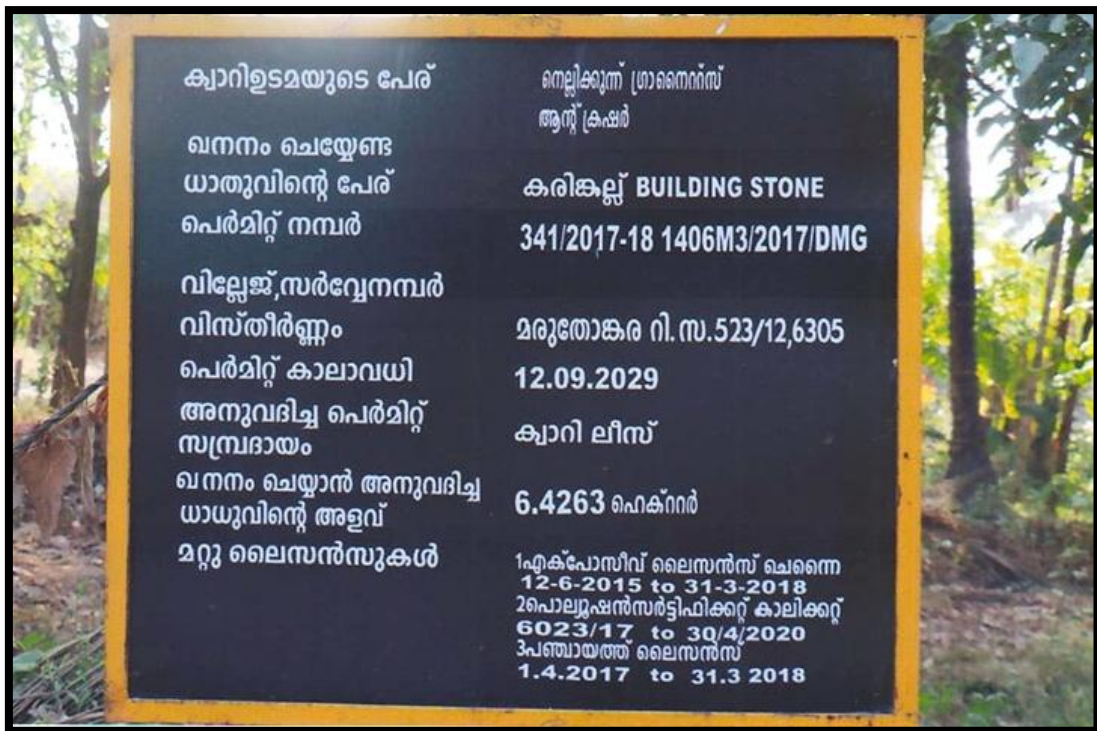
Covered Truck

Plate No.16



Magazine

Plate No. 17



EC Board





ANNEXURE

(Documents of the project)

[illegible]

Page 43

Annexure No. 2

THARAPPEL NURSERY & GARDEN
(Govt. Approved)
Anappara, Chulliyode P.O. S.Bathery, Wayanad, Kerala
tharappelnursery@gmail.com

Ph: 04936 - 266155
Mob: 09447235967
WhatsApp 09745569355

Date: 01/12/16

CASH BILL

No. 375

Vehicle No.

To:

No	Particulars	Qty	Rate	Amount Rs.	Rs.
1	2 (Lemon)	5	35	175	
2	മുളച്ചെടി	5	100	500	
3	2 (Lemon) (9x9)	2	75	150	
4	മുളച്ചെടി	2	75	150	
5				2670	
6	മുളച്ചെടി	6	35	210	
7	മുളച്ചെടി	2	120	240	
8		2	90	180	
9				3260	
10					
11					
12					
13					
14					
15					
16					
17					
Rupees			TOTAL	3100	

Loading & Packing Charges Extra

Let Us Make India Green,
Together We Can, Will

For THARAPPEL NURSERY & GARDEN

Bill of Plants purchased

Annexure No. 3

SUBJECT TO CALICUT JURISDICTION
Original - Buyer's Copy

Invoice No. 8B/061
Ref. No.

Dated 3-Aug-2016

AG's POWER SOLUTIONS - 2015-16
17/483 -6A
Sreekanteswara Complex
IG Road, Kozhikode
Phone: 0495-2721141
Contact :9895500365
E-Mail :govclt1@gmail.com

Form No. 8B
Kerala Value Added Tax 2015
Party : **Hameed**
kuttiyadi

Sl No.	Description of Goods	Quantity	Rate	per	Amount
1	Solar Street Light	1.00 No.	23,267.33	No.	23,267.33
	OUTPUT VAT 1%			1 %	232.67
	Total	1.00 No.			₹ 23,500.00

Amount Chargeable (in words) **INR Twenty Three Thousand Five Hundred Only**
E. & O.E


Company's CST No. : **32110843645C**

Company's Bank Details
Bank Name : **Syndicate Bank**
A/c No. : **44051010003333**
Branch & IFS Code : **Mavoor Road & SYNB0004405**

Declaration
*Original for the Buyer and Duplicate to be retained with the seller
Customer's Seal and Signature

for AG's POWER SOLUTIONS - 2015-16
[Signature]
Authorised Signatory

This is a Computer Generated Invoice



Bill of Solar Street light

MULLANKUNNU RELIEF COMMITTEE

MULLANKUNNU, PO - MARUTHONKARA - 673513,
KAVILUMPARA

No : 486 Date 28/2/2020

Received with thanks from Dr. J. Senthil Kumar

the sum of rupees Rs. 28000/-

Rs: 28000/-

Secretary

MULLANKUNNU RELIEF COMMITTEE
PIN - 673 513
MARUTHONKARA

MULLANKUNNU JUMA MASJID COMMITTEE

MULLANKUNNU, P.O. MARUTHONKARA - 673 513
KAVILUMPARA

No.

48

Date 28/8/2020

Received with thanks from...
(Handwritten signature)
.....
the sum of rupees.....
(Handwritten amount)


11000/-

Secretary / Organizer

COLLEGE OF QUR'AN-KUTTIADI

IBN KHALDUN Institute of social sciences

Run by : RELIGIOUS EDUCATION TRUST (Regd No: 16/77)



كلية القرآن

No: 130

Date: 08/09/2020

Received with thanks from

Hameed V.P (Nellikunne granite and Crushers)

Adukka Kuttiadi

the sum of Rupees

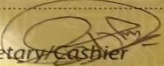
Ten Thousand only

Being

Donation

₹

10,000/-



Secretary/Cashier

📍 P.O.Kuttiadi-673 508, Kozhikode, Kerala, India. ☎ +91 75928 55313, www.collegeofquran.com, collegeofquran@gmail.com

MULLANKUNNU RELIEF COMMITTEE
MULLANKUNNU, PO - MARUTHONKARA - 673513,
KAVILUMPARA

No: 487 Date: 29/9/2020

Received with thanks from മെറ്റാ/ജെ. മാരതോങ്കര

the sum of rupees രൂ. 28000/-

Rs: 28000/-

Secretary/Organizer

MULLANKUNNU RELIEF COMMITTEE
 PIN - 673 513
 MARUTHONKARA

FORM M [See Clause 5]
CASH / CREDIT BILL

No: 84 ST / CST No:

CERTIFICATE REG. NO. 69/2011 Date: 3-10-20

Name and Address of the Firm: **GENERAL AGENCIES MULLANKUNNU, PIN 673513**

Name and Address of the purchaser: Nellikunnu Granite and Crusher
Nellikunnu

Sl. No.	Name of Fertilizer and Brand Name	No. of Bags	Batch No. Where ever Applicable	Quantity	Rate	Amount
1	10.5.20	5			500	800
				Total		4000
				ST / CST		
				Grand Total		4000

Signature of the Purchaser: General Agencies Fertilizer and Pesticides Dept
Mullankunnu
Maruthonkara (P.O)
Kozhikod Dt., Pin: 673 513

Signature of the Dealer: [Signature]

A J John Memorial HSS, ChathangottunadaSchool Code: 10157, Kozhikode – Dist.

To

The Manager
Nellikunnu Crusher

Respected Sir,

Sub: വിദ്യാർത്ഥനമാരിനുള്ള സമര
അഭ്യർത്ഥനാർത്ഥം സഹായിപ്പൂ :-

ചാത്തങ്ങോട്ടനാട് എ.ജെ. മെമ്മോറിയൽ
ഹയ്സ്കൂളിൽ പഠിക്കുന്ന വിദ്യാർത്ഥികൾക്ക്
വിദ്യാർത്ഥനമാരിൽ നിന്നും പഠിക്കുന്ന വിദ്യാർത്ഥികൾക്ക്
വിദ്യാർത്ഥനമാരിൽ നിന്നും പഠിക്കുന്ന വിദ്യാർത്ഥികൾക്ക്
വിദ്യാർത്ഥനമാരിൽ നിന്നും പഠിക്കുന്ന വിദ്യാർത്ഥികൾക്ക്

മറിയം.സി
NSS Coordinator
A.J. John M.H.S.S
Chathangottunada.
27-06-2020 ;



Bindu Michael
Bindu Michael
BINDU MICHAEL
PRINCIPAL
A.J JOHN MEMORIAL HSS
CHATHANGOTTUNADA

The receipts of CSR/CER

Annexure No.5

Page 1 of 2

Form LE-10
Shot Firer's Certificate
(See article 10 of Part 1 of Schedule IV)
[see rule 107(5) of Explosives Rules, 2008]

(Certificate of competency to carry out blasting of explosives in area not coming under the Mines Act, 1952)

No.:E/SE/KL/30/690(E82034)

This is to certify that **Shri Muhammed Shameer V.P.**, born on **14/05/1989**, resident of **Adukkath House Cheruvu P.O., Kuttiyadi, KOZHIKODE, Kerala** passed the **shotfirer's examination** held on **09/06/2014** conducted by **Controller of Explosives, Ernakulam** and is authorised to conduct blasting operations as mentioned below using explosives in areas other than mines coming under the purview of the Mines Act 1952, subject to the provisions of the Explosives Act, 1884 and the rules framed thereunder.

Authorised class, category and type of blasting :

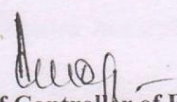
Class : (B), Category : General aboveground, All phases of aboveground blasting operation

[See explanation of sub-rule (5) of rule 107]

This certificate shall remain valid till 19/06/2019 (five years from the date of issue)

This certificate is liable to be suspended or revoked for any violation of the Act or rules framed thereunder or the conditions of this certificate or if there is any discrepancy or deviation in the information or suppression of facts furnished by the applicant in his application form.

Place: **Ernakulam**
Date: **19/06/2014**


Dy. Chief Controller of Explosives
 कर्त उप मुख्य विस्फोटक नियंत्रक
 For Deputy Chief Controller of Explosives
 एरनाकुलम / Ernakulam

Endorsement for revalidation		
Date of Revalidation	Date of Expiry	Signature of licensing authority

Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Certificate of Short Firer's

(धात्विक) खनन परीक्षा बोर्ड
Board of (Metalliferous) Mining Examinations.
दस्तावेज सं०
No. of Document

सं०/का०/नि० 1224
C. I. M. 1224

1147

खान अधिनियम, 1952
THE MINES ACT, 1952
खान फोरमैन समर्थता प्रमाण-पत्र
MINE FOREMAN'S CERTIFICATE OF COMPETENCY
(धात्विक खान विनियम, 1961 के अधीन)
(Under the Metalliferous Mines Regulations, 1961)

श्री....., सुपुत्र.....
निवासी गांव....., थाना.....
जिला....., राज्य....., ने धात्विक खान विनियम, 1961 के अधीन
जन्म तारीख....., ने धात्विक खान विनियम, 1961 के अधीन
अपनी आयु, स्वस्थता, सदाचार, साक्षरता और अनुभव के संबंध में संतोषजनक प्रमाण प्रस्तुत कर दिए हैं और तारीख.....
को (स्थान)..... में हुई परीक्षा पास कर ली है। इसे धात्विक खान विनियम, 1961 के अधीन खान फोरमैन
प्रमाण-पत्र दिया जाता है।

Shri..... Krishna Kurup .G.....
of Village..... Adoor....., Thana..... Adoor.....
District..... Pathanamthitta....., State..... Kerala.....
born on..... 23rd May, 1956....., son of..... Shri. Gopal Pillai.....
having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience, and having passed
the examination held at..... Udaipur..... on..... 1.8.93.....
is hereby granted a MINE FOREMAN'S CERTIFICATE under the Metalliferous Mines Regulations, 1961.

Fit upto 22.5.2016 (Sixteen)

विदेशक खान सुरक्षा
अध्यापक क्षेत्र

He has been examined by qualified Medical Officer on 26.1.93 and declared fit for employment in mine. This Certificate is valid upto 28.10.2017.

सचिव,
खनन परीक्षा बोर्ड।
Secretary,
Board of Mining Examinations.

तारीख/Dated 28.7 1994

विदेशक. आर. सुरक्षा. बेल्लारी
Director of Mines Safety, Bellary

खनन परीक्षा बोर्ड।
Chairman,
Board of Mining Examinations.

प्रमाणित किया जाता है कि उसकी परीक्षा की गई और उसे बहरेपन, सक्षम दृष्टि या अन्य किसी ऐसी शारीरिक या मानसिक अवयवता से रहित पाया गया, जिसका उसके दक्षतापूर्वक कार्य-निष्पादन पर प्रभाव पड़ने की संभावना हो।
Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental or physical, likely to interfere with the efficient discharge of his duties.

1. On 22.04.1998 19.05.2008 2. On 16.04.2003
3. On 19.05.2008 4. On 16.04.2003
5. On 19.05.2008 6. On 16.04.2003


MGIP (KSR Unit) 2-20 DGMS/76-19.3-77-4.250

Mine foreman

(धात्विय) खनन परीक्षा बोर्ड
Board of (Metalliferous)
Mining Examinations
दस्तावेज सं०
No. of Document

म० खा० नि० 1229
C.I.M. 1229


3870





खान अधिनियम, 1952
THE MINES ACT, 1952
खनन मेट समर्थता प्रमाण-पत्र
MINING MATE'S CERTIFICATE OF COMPETENCY
(धात्विय खान विनियम, 1961 के अधीन)
(Under Metalliferous Mines Regulations, 1961)


श्री....., सुपुत्र.....
निवासी गांव....., थाना.....
जिला....., राज्य.....
जन्म तारीख....., ने अपनी आयु, स्वस्थता, सदाचार, साक्षरता और अनुभव का
संतोषजनक प्रमाण दे दिया है और तारीख..... को (स्थान).....
में हुई परीक्षा पास कर ली है इसे धात्विय खान विनियम,
1961 के अधीन खनन मेट समर्थता प्रमाण-पत्र दिया जाता है।

Shri... Krishna Kurup G..... (Name)
of Village... Adoor..... Thana... Adoor.....
District... Pathanam Thitta..... State... Kerala.....
born on... 23rd. May, 1956..... Son of... Shri. Gopala Pillai.....
having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience and
having passed an examination held at V.T.C. Zawar Mine, Udaipur..... on... 12th September, 1989
is hereby granted a MINING MATE'S CERTIFICATE under the Metalliferous Mines Regulations, 1961.


सचिव,
खनन परीक्षा बोर्ड
Secretary,
Board of Mining Examinations.
तारीख/Date... 30-1-1990


अध्यक्ष,
खनन परीक्षा बोर्ड
Chairman,
Board of Mining Examinations.


बाएँ हाथ के अंगूठे का निशान
Left hand thumb impression



प्रमाणित किया जाता है कि उसकी परीक्षा की गई और उसे बहरपन, सदोष दृष्टि या अन्य किसी ऐसी शारीरिक या मानसिक अशक्तता से
रहित पाया गया, जिसका उसके दक्षतापूर्वक कार्य निष्पादन पर प्रभाव पड़ने की संभावना हो।
Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental
or physical, likely to interfere with the efficient discharge of his duties,

1. On 26-10-74 ता० को
3. On 26-10-74 ता० को
5. On निदेशक, खान सुरक्षा ता० को

2. On ता० को
4. On ता० को
6. On ता० को

Mines mate

(धातु उत्पादक) खनन परीक्षा बोर्ड
Board of (Metalliferous) Mining Examinations

सी.आई.एम. 1234
C.I.M. 1234

प्रलेख सं०
No. of Document 3004

खान अधिनियम, 1952
THE MINES ACT, 1952

विस्फोटकर्ता प्रमाण-पत्र
BLASTER'S CERTIFICATE OF COMPETENCY

(धातु उत्पादक खान विनियमावली, 1961 के अधीन)
(Under Metalliferous Mines Regulations, 1961)

श्री.....
पिता.....
को जिनकी जन्मतिथी..... है अपनी आयु, आरोग्यता, अच्छे आचरण, साक्षरता और अनुभव के संबंध में संतोषजनक प्रमाण दे देने और..... में तारीख..... को हुई परीक्षा पास कर लेने पर धातु उत्पादक खान विनियमावली, 1961 के अधीन विस्फोटकर्ता प्रमाण-पत्र दिया जाता है।

Shri..... (Name)
of Village.....
District....., Thana.....
born on..... son of.....
having given satisfactory evidence of his age, medical fitness, good conduct, literacy and experience and having passed an examination held at..... on.....
is hereby granted a BLASTER'S CERTIFICATE under the Metalliferous Mines Regulations, 1961.

सचिव,
खनन परीक्षा बोर्ड
Secretary,
Board of Mining Examinations.
Dated..... 1986.

अध्यक्ष,
खनन परीक्षा बोर्ड
Chairman,
Board of Mining Examinations

बायें हाथ के अंगूठे का निशान
Left hand thumb impression

प्रमाणित किया जाता है कि उर्वकी स्वास्थ्य परीक्षा कर ली गई है और वह बाहरेपन, मंदोग दृष्टि या अन्य किसी ऐसी मानसिक अथवा शारीरिक अक्षमता से मुक्त पाया गया है जो उसके कर्तव्यों को प्रभावी रूप से करने में बाधक हो।

Certified that he was examined and found free from deafness, defective vision or any other infirmity, mental or physical, likely to interfere with the efficient discharge of his duties.

1. On..... को
2. On..... को
3. On..... को
4. On..... को
5. On..... को
6. On..... को

11.8.91
खान सुरक्षा निदेशक
Director of Mines Safety

MGIPCB-S3-3D बरीख (D) and B14, 5-2-82-11,500.
saiyed/25th.

Blaster

Annexure No.6

[illegible]

Bill of PPE

Annexure No.7

Validity expires on 14-12-2020

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

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

Sub: SEIAA- Environmental Clearance for the proposed quarry project in Sy. Nos. 523/1part, 571/1Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District, by M/s Nellikkunnu Granite & Crushers Pvt. Ltd.- Granted. Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 539/SEIAA/EC4/3882/2014

dated, Thiruvananthapuram 15-12-2015

- Read:* 1. Application dated 31-7-2014 submitted by Sri. Hameed Cheuveri, Managing Director, M/s Nellikkunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513
2. Minutes of the 41st meeting of SEAC held on 16/17-6-2015.
3. Minutes of the 45th meeting of SEAC held on 11/12-9-2015.
4. Minutes of the 43rd meeting of SEIAA held on 16-10-2015.


Environmental Clearance No. 109/2015

Sri. Hameed Cheruveri, Managing Director, M/s Nellikkunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513 vide his application received on 13.08.2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 523/1 part, 571/1Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District, Kerala for an area of 07.8991 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

2. The proposed project site falls within 11° 39'03.17" N to 11° 38'53.42" N and 75° 49' 42.25" E to 75° 49' 25.16" E. The land use classification as per revenue records is rocky land with private own land. The present land use is rocky land with quarrying activities. The current proposal is for the existing quarry with pit area of 0.6070 hectares and mineral specific. Hence no alternate site was examined. Forest land is not involved in the project.

Copy of EC Order

Annexure No.8



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KKD/DO/6023/2016
Date of issue :11/05/2020

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KKD/DO/ICO-R1/6023/R16KOZ2658563/11986944/2020

Ref : 1.Your online application no.11986944 dated 05.11.2019.
2.Consent No.PCB/KKD/DO/ICO/6023/2017 dated.20.06.2017 valid upto 30.04.2020.

The 'Integrated Consent to Operate' issued as per reference above to M/s NELLIKUNNU GRANITE AND CRUSHER,VANNATHICHIRA POST,KAVILUMPARA VIA,KOZHIKODE is hereby renewed up to 14/12/2020 and issued to M/s NELLIKUNNU GRANITE AND CRUSHER,VANNATHICHIRA POST,KAVILUMPARA VIA,KOZHIKODE The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Validity	14.12.2020
2	Annual fee	Rs.40000/-
3	Fee remitted	Rs.250000/-

II. Stack Details

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

III. CONDITIONS

3.1. Condition no.5.5 of the consent referred 2nd above is modified to the extent that for renewal of the integrated consent application in the prescribed form shall be submitted to the Board before 14.10.2020 through the web portal of the Board (krocmms.nic.in) for Online Consent Management & Monitoring System. Late application will be accepted only with fine/late fee as applicable.

3.2. The quarry should not be operated between 6.00 p.m. and 6.00 a.m.

3.3. Noise measured 1 m outside the boundary of the premises shall not exceed the limit specified for the

Page1

area

under the Ambient Air Quality Standards in respect of noise.

3.4 The concentration of particulate matter PM 10 and PM 2.5 at the boundary of the premise shall not exceed 100 microgram/m³ and 60 microgram/m³ respectively.

3.5. Permanent fence made of wire mesh shall be provided and maintained along the boundary of the approved quarry area.

3.6 The applicant shall put up a 6 ft. x 4 ft. signboard near entrance to the quarry for displaying the name of the quarry and owner, production details and time of the day when blasting is permitted to be undertaken.

3.7 Location and extent of quarry shall be as per the approved site plan attached.

3.8 After completion of quarrying, the land may be reclaimed as per the mining plan approved by the Department of Mining and Geology.

3.9. Quarrying operations shall be started only after obtaining all the statutory clearances required, which shall be valid throughout the period of operations.

3.10. This consent is issued based on EC no 539/SEIAA/EC4/3882/2014 dated 15.12.2015 valid up to 14.12.2020

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

DATE :05/03/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER, DISTRICT
OFFICE, KOZHIKODE

SHABNA
KUSHE
SHEKHAR

Digitally signed
by SHABNA
KUSHE SHEKHAR
Date: 2020.05.13
15:47:23 +05'30'



To


Sri. HAMEED
CHERUVERI
ADUKKATH
KUTTIYADI
KOZHIKODE-673508

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

Page2

Consent form PCB

Annexure No.9


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
A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन | A & D - Wing, Block 1-8, 1Ind Floor, Shastri Bhavan
26 हड्डोउस रोड, नुंगम्बक्कम चेन्नई | 26 Haddous Road, Nungambakkam Chennai 600006
फोन (Phone):- 28281023 | फैक्स (Fax):- 28284848
ई-मेल Email: jiccechennai@explosives.gov.in

संख्या (No.): E/SC/KL/22/1620(F71339)
सेवा में To,
Nameed Cheruvert,
M.D., M/s. Nellikunnu Granite & Crusher, Vannathichira P.O. Vadakara. Town/Village - Kuttivadi
District-KOZHIKODE, State-Kerala, Pincode - 673508

दिनांक (Date): 22/01/20

विषय : Survey No R.Sy.No.570, ग्राम Muruthonkara (v), Vatakara Tk. जिला KOZHIKODE, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1620(F71339) के नवीनीकरण संदर्भ में।
Subject: Possession for Use of Explosives from magazine situated at Survey No.:R.Sy.No.570, Muruthonkara (v), Vatakara Tk. Dist. KOZHIKODE, Kerala -Licence No.: E/SC/KL/22/1620(F71339) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या NIL दिनांक 20/01/2018 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2023 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।
Reference to your letter No.: NIL, dated: 20/01/2018, the subject licence duly renewed upto 31/3/2023 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2023 से पहले उप मुख्य विस्फोटक नियंत्रक कोचची को भेजे जाएं।
For further renewal of licence, please submit the following documents so as to reach The Dy. Chief Controller of Explosives, Kochi on or before 31/3/2023

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
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.
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी उप मुख्य विस्फोटक नियंत्रक कोचची के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach The Dy. Chief Controller of Explosives, Kochi by 10th of the succeeding quarter. (Not applicable for fireworks store house)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Your's faithfully
(डा. अशोक कुमार यादव | Dr. Ashok Kumar Yadav)
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
दक्षिणांचल, चेन्नई | South Circle, Chennai

प्रतिलिपि प्रेषित | Copy Forwarded to:
1. जिला मजिस्ट्रेट (District Magistrate), KOZHIKODE (Kerala)- सूचना के लिए (for information.)
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
दक्षिणांचल, चेन्नई | South Circle, Chennai

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

अनुज्ञप्ति प्रारूप एन.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 :
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/22/1620(E71339)
वार्षिक फीस (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
Hameed Cheruveri (अधिभोगी / Occupier : Hameed Cheruveri), M.D., M/s. Nellikunnu Granite & Crusher, Vannathipala
P.O. Vadakara, Town/Village - Kuttiyadi, District-KOZHIKODE, State-Kerala, Pincode - 673508

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रस्थिति / Status of licensee : Partnership Firm

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमार्ग है।
Licence is valid only for the following purpose.

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमार्ग 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	150 Kg.
2	Safety Fuse	6, 1	0	2000 Mtrs
3	Ordinary Detonator	6, 3	0	2000 Nos.
4	Electric Detonators	6, 3	0	2000 Nos.

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

20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्ति परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s).

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1620(E71339)
दिनांक (Dated) 19/11/2013

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address :
Survey No. R.Sy.No.570, ग्राम (Town/Village) : Muruthankara (v), Vatakara Tk
जिला (District) : KOZHIKODE राज्य (State) : Kerala पुलिस थाना (Police Station) : Thottipalam
दूरभाष (Phone) : ई मेल (E-Mail) : पिनकोड (Pincode) : 673315
फैक्स (Fax) :

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।
The licensed premises consist of following facilities.

Type 'C' magazine

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

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority

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

9. यह अनुज्ञप्ति तारीख 31 मार्च 2018 तक विधिमार्ग रहेगी। This licence shall remain valid till 31st day of March 2018.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपबंधित इस अनुज्ञप्ति की शर्तों का अधिकरण करने या यदि अनुज्ञप्ति 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 : 19/11/2013

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

अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Signature of licensing authority and stamp
Jt. Chief Controller of Explosives, South Circle, Chennai

नवीकरण की तारीख
Date of Renewal : 22/01/2018

समाप्ति की तारीख
Date of Expiry : 31/03/2023

नवीनीकरण के पृष्ठों के लिए स्थान
Space for Endorsement of Renewal

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.

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

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/1620(E71339) in form LE-3 granted to Hameed Cheruveri, M.D., M/s. Nellikunnu Granite & Crusher, Vannathichira P.O. Vadakara, Kerala-673315.

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

The Date : 19/11/2013


For Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 12/06/2015
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 17/05/2017

Transfers :

- Change in Licensee Name/Address/Status dated : 14/06/2017
- Change in Licensee Name/Address/Status dated : 14/06/2017
- Change in Licensee Name/Address/Status dated : 14/06/2017


भारत सरकार | Government of India
वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसी) | Petroleum & Explosives Safety Organisation (PESO)
पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन | A & D - Wing, Block 1-8, 1st Floor, Shastri Bhavan
26 हड्डोउस रोड, नुंगम्बक्कम चेन्नई | 26 Haddous Road, Nungambakkam Chennai 600006
फोन (Phone):- 28281023 | फैक्स (Fax):- 28284848
ई-मेल E-mail: jteccchennai@explosives.gov.in

संख्या (No.): E/SC/K1/22/1620(E71339) दिनांक (Date): 22/01/20

सेवा में To,
✓ M.D. M/s. Nellikunnu Granite & Crusher, Vannathichira P.O. Vadakara. Town/Village - Kuttyadi
District-KOZHIKODE, State-Kerala, Pincode - 673508

विषय : Survey No R.Sy.No.570, ग्राम Muruthonkara (v), Vatakara Tk. जिला KOZHIIKODE, राज्य Kerala में
विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी
अनुज्ञप्ति सं E/SC/K1/22/1620(E71339) के नवीनीकरण संदर्भ में।
Possession for Use of Explosives from magazine situated at Survey No.:R.Sy.No.570,
Subject: Muruthonkara (v), Vatakara Tk. Dist. KOZHIIKODE, Kerala -Licence No.: E/SC/K1/22/1620(E71339)
granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या NIL दिनांक 20/01/2018 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2023 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।
Reference to your letter No.: NIL, dated: 20/01/2018, the subject licence duly renewed upto 31/3/2023 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2023 से पहले उप मुख्य विस्फोटक नियंत्रक कोचची को भेजे जाएं।
For further renewal of licence, please submit the following documents so as to reach The Dy. Chief Controller of Explosives, Kochi on or before 31/3/2023

- प्ररूप आरई-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चेन्नई में देय हो।
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.
- अनुमोदित प्लान के साथ मूल अनुज्ञप्ति।
Original licence with approved plan.
- कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी उप मुख्य विस्फोटक नियंत्रक कोचची के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach The Dy. Chief Controller of Explosives, Kochi by 10th of the succeeding quarter. (Not applicable for fireworks store house)
- सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Your's faithfully
(डा. अशोक कुमार यादव | Dr. Ashok Kumar Yadav)
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
दक्षिणांचल, चेन्नई | South Circle, Chennai


प्रतिलिपि प्रेषित | Copy Forwarded to:
1. जिला मजिस्ट्रेट (District Magistrate), KOZHIIKODE (Kerala)- सूचना के लिए (for information.)
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
दक्षिणांचल, चेन्नई | South Circle, Chennai

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

Explosive license

Annexure No.10

2




ലൈസൻസ് നമ്പർ : A7-767/2020-21 ... 2

തീയതി : 28/12/2020

മരുതോങ്കര ഗ്രാമപഞ്ചായത്തിൽനിന്നും
 1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും
 അതേ ആക്റ്റിന്റെ ചുരുക്കവും അനുസരിച്ച്
 ഓക്സിക്വട്ട്, സ്റ്റാഫറേഷ്, സരംഷേഷ്, മറ്റു സമ്പത്തുകൾ എന്നിവയ്ക്കായി നൽകുന്ന
ലൈസൻസ്

ലൈസൻസിന്റേ പേരും തെളിയിക്കുന്നതും	HAMEED CHERUVERI -M D, NELLIKKUNNU GRANITES AND CRUSHER- ADUKKATH PO	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	NELLIKKUNNU GRANITES AND CRUSHER	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	QUARRY നടത്തുന്നതിന്	
ക്വട്ടേഷന്റെ നമ്പരും വാർഡ് നമ്പരും	10 /	
ലൈസൻസ് കാലയളവ്	01-04-2020 മുതൽ 31-03-2021 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	5,000/- രൂപ	രസീത് നമ്പർ 119020103812 തീയതി 24-02-2020
	തൊഴിൽക്കാരം	1250 + 1250 Rt.No.120020100006 Dt : 25-04-2020
ലൈസൻസ് അനുവദിക്കുന്നതിനായി പാലക്കാട് നിരംക്ഷപത്രങ്ങളുടെ പിരിയോഡങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. മലിനീകരണനിയന്ത്രണ ബോർഡിൽനിന്നുള്ള അനുമതി ... PCB/T4/115/97 ... 10-12-2020 2. ജില്ലാ കളക്ടറുടെ / ചീഫ് കൺസർവേറ്റർ ഓഫ് ഫിഷറീസ് ഡവലപ്മെന്റിന്റെ അനുമതിപത്രം ... E/SC/KL/22/1620(E71339) ... 30-10-2018 3. മൈനിംഗ് & ജിയോളജി വകുപ്പിൽനിന്നുള്ള അനുമതി ... 1406/M3/2017 VALID UP TO 14/12/2020 ... 07-09-2017 4. ജോയിന്റ് എൻവയൺമെന്റൽ ഇംപാക്ട് അസസ്മെന്റ് അനുമതിയുടെ അനുമതി ... 109/2015 ... 15-12-2015 5. പാറ പോട്ടിക്കുന്ന ആളുടെ സൈറ്റ് പ്ലാൻ സാക്ഷ്യപത്രം ... MINE FOREMAN'S CERTIFICATE VALID UP TO 21/06/2020 ... 00-01- 1900	



സെക്ഷണി
 മരുതോങ്കര ഗ്രാമപഞ്ചായത്ത്
 മെറ്റീരിയൽ ഓഫീസ്
 മെറ്റീരിയൽ ഓഫീസ്
 Ph: 0496 2666048, Mob: 9496048133

License form Gram Panchayat

Annexure No.11

No.1406/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
 Web: www.dmg.kerala.gov.in
 Dated: 07/09/2017

From
 The Director of Mining & Geology

To
 M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd,
 Corporate Identity Number : U14100KL2010PTC027091
 (Represented by its Managing Director, Shri. Hameed Cheruveri,
 Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508)

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. 341/2017-18/1406/M3/2017/DMG Dated: 07/09/2017
 2. KMMC Rules 2015
 3 Pro.order. No. 539/SEIAA/EC4/3882/2014 dtd. 15/12/2015 of State Environmental Impact Assessment Authority, Kerala

Please refer to the Proceedings Order cited above wherein a lease for Granite (Building Stone) is granted to **M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd, Corporate Identity Number : U14100KL2010PTC027091 (Represented by its Managing Director, Shri. Hameed Cheruveri, Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508)**. 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 **Senior Geologist, District Office, Kozhikode** for scrutiny and execution. The date of execution will be entered up by the Senior Geologist at the time of execution. After scrutiny of the quarrying lease deed, the Senior Geologist will inform you the date of execution convenient to him. After execution as per the request of the Senior Geologist stamp duty may be fixed by any District Registrars of the state and he will receive the stamp duty and a certificate of remittance of stamp duty will be entered in the lease deed. A chalan for Rs. **64,263/- (Rupees sixty four thousand two hundred and sixty three only)** being the security deposit is enclosed herewith duly countersigned. Please affix your signature at the appropriate places before remittance of money in the treasury. The original treasury receipted chalan may also be produced along with the typed copies of the lease deed and the draft form 'H' which is enclosed herewith, before the **Senior Geologist, District Office, Kozhikode** at the time of execution.

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

Yours faithfully,

Encl: as above



DIRECTOR OF MINING & GEOLOGY (I/c)

Copy to -

The Senior Geologist, District Office, Kozhikode
(Letter No.DOZ/M-2066/2016 dtd. 04/02/2017, 27/02/2017, 22/06/2017)

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

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

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



PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

Sub: Mining & Geology - Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying Lease to M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd, Corporate Identity Number : U14100KL2010PTC027091 (Represented by its Managing Director, Shri. Hameed Cheruveri, Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508) – sanctioned– orders – issued.

- Ref.**
1. Application dt 20/10/2016 from M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd, Corporate Identity Number : U14100KL2010PTC027091 (Represented by its Managing Director, Shri. Hameed Cheruveri, Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508)
 2. Letter No.DOZ/M.2066/16 dtd. 04/02/2017, 27/02/2017, 22/06/2017 from the Senior Geologist, District Office, Kozhikode
 3. Pro.order. No. 539/SEIAA/EC4/3882/2014 dtd. 15/12/2015 of State Environmental Impact Assessment Authority, Kerala
 4. Kerala Minor Mineral Concession Rules, 2015.

No. 341/2017-18/1406/M3/2017/DMG

Dated, Thiruvananthapuram 07/09/2017

ORDER

A quarrying lease is granted to **M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd, Corporate Identity Number : U14100KL2010PTC027091 (Represented by its Managing Director, Shri. Hameed Cheruveri, Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508)** to quarry **Granite (Building Stone)** over an area of **6.4263 Hectares** of land comprised in **Re-Survey No. 523/1pt of Maruthonkara Village, Vatakara Taluk, Kozhikode District for 12 (Twelve) years** from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the **Tahsildar, Vatakara** and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

1. Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
2. Dead rent is realizable under 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.
3. 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.
4. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5. The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
6. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
7. The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
8. The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to **2,00,000 Metric Tonnes** per year.
9. (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession

- number and date, the mineral to be extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable). Area of extraction permitted, explosives used (if any), etc.
- (ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.
 10. The lessee shall fence the lease area before the commencement of the quarrying operation for preventing accidents by falling of human beings, animals, vehicles or any materials into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general public.
 11. The lessee shall leave a distance of 7.5m from the boundaries of adjacent properties including government puramboke land while carrying out quarrying operations.
 12. The lessee shall not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology.
 13. The lessee shall pay tax related to Revenue Department, if any, as directed by them and the details should be furnished to the Geologist periodically.
 14. The lessee shall operate the quarry in accordance with the condition stipulated in the environmental clearance and mining plan submitted by him.
 15. The lessee shall obtain all other statutory licences/clearances/No Objection Certificates from other authorities concerned including Explosive licence, consent from Pollution Control Board and D & O licence from the Local Self Government Department concerned.
 16. The lessee shall produce scheme of mining before completion of five years of operation of the quarry.
 17. The lessee shall produce a financial guarantee for **Rs. 1,60,658/- (Rupees one lakh sixty thousand six hundred and fifty eight only)** as stipulated in rule 62 of KMMC Rules 2015, before execution of lease deed.
 18. The lessee shall pay 10% of the amount of royalty/consolidated royalty as the case may be paid by them, being the quarry safety fund in addition to the royalty/consolidated royalty, as per rule 63 of KMMC rules, 2015.
 19. The lessee shall carryout mining operations as per the approved mining plan.
 20. The lessee shall renew Environmental Clearance on or before **14/12/2020** for the operation of the quarry for the remaining period.
 21. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.

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

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

To
✓ M/s. Nellikkunnu Granite and Crushers (Pvt) Ltd,
Corporate Identity Number : U14100KL2010PTC027091
(Represented by its Managing Director, Shri. Hameed Cheruveri,
Cheruveri House, Adukkath P. O, Kuttiadi (via), Kozhikode District – 673 508)

Copy to:

1. The Director of Mines Safety,
No.5, 100FT, Road, 17th Main, Koramangala 4th Block
Bengaluru, Karnataka - 560034
2. The District Collector, Kozhikode
3. The Senior Geologist, District Office, Kozhikode
4. The Tahsildar, Vatakara
5. Stock File (2), File Copy

(BY ORDER)



02/09/2017
SENIOR SUPERINTENDENT

Copy of Permit

Annexure No.12

THE NEW INDIAN EXPRESS
KOZHIKODE SATURDAY 2 JANUARY 2016

NOTICE

This is to inform to the General Public that the proposed quarry project in Survey Nos. 523/1 Part, 571/1 Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District, Kerala being developed by M/s Nellikunnu Granite & Crusher Pvt. Ltd. is accorded with ENVIRONMENT CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Order No. 539/SEIAA/EC4/3882/2014 Dt. 15-12-2015 and the copy of the Environment Clearance is available with the office of Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org

COIR INDUSTRY AWARD FOR 2014-15

COIR BOARD
MINISTRY OF MSME, Government of India
M.G.Road, Kochi - Pin-682016.
Ph:0484 2351900

Entries have been invited from the Exporters/Dealers/Producers /Persons/Entrepreneurs/State Governments/UTs and Organizations from any of the eligible categories for the **COIR INDUSTRY AWARDS 2014-15** for outstanding performance in coir sector. Please visit Coir Board Website for downloading the application format.

The last date for receipt of applications in the prescribed format in the Head Office has been extended from 31.12.2015 to **11.01.2016**.

For further details contact Development Officer (M), Coir Board (Ph.0484:2362751)

For more details visit: www.coirboard.gov.in

S/d
SECRETARY, COIR BOARD

31.12.2015

Regd Office: No. 21, Pattulos Road, Chennai - 600 002.
Corporate Office: 46, Whites Road, Chennai - 600 014.

SUNDARAM BNP PARIBAS

0481 3236524, Branch Kochi: 80696 30524
www.singlesittingdegree.com

PUBLIC NOTICE

പൊതുജന ശ്രദ്ധയ്ക്ക്

പൊതുജന ശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, കോഴിക്കോട് ജില്ല, വടകര താലൂക്ക്, മരുതോങ്കര വില്ലേജിലും പഞ്ചായത്തിലും പെട്ട സർവ്വേ നമ്പർ 523/1 Part, 571/1 Part & 567-ൽ പാറ ഖനനം ചെയ്യുന്നതിനു വേണ്ട പരിസ്ഥിതികാനുമാന നൽകിയിട്ടുള്ള ഗ്രാന്റും ക്രഷേഴ്സ് പ്രൈവറ്റ് ലിമിറ്റഡ് എന്ന സ്ഥാപനത്തിന് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്സസ്മെന്റ് അതോറിറ്റിയിൽനിന്നും 539/SEIAA/EC4/3882/2014 തീയതി 15-12-2015 ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് കേരള സംസ്ഥാന പരിസ്ഥിതി കാലാവസ്ഥ വ്യതിയാന വകുപ്പിൽ ലഭ്യമാണ്. www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽകൂടിയും പകർപ്പ് കാണാവുന്നതാണ്.

CONSUMER APPLIANCES

CAMERA

പെൻ കീചെയിൻ ക്യാമറ
കീചെയിൻ, ബട്ടൺ, വാച്ച്, ഗ്ലാസ്,

സേഫ്റ്റി ഓഫീസർ
ടെയ്നിങ്
കൊച്ചി- കോഴിക്കോട്. ഒരു മാസം കൊണ്ട് Expert സേഫ്റ്റി ഓഫീസർ ആകാം. 25 വർഷങ്ങളായി എറണാകുളത്ത് പ്രവർത്തിക്കുന്ന Safety Tech Management എന്ന ISO Certified Safety Engineering Company യിൽ നടത്തുന്ന ട്രെയ്നിങ്. Government of India പ്രൊഫഷണൽ സർട്ടിഫിക്കറ്റ് Placement

Advertisement in News paper

Annexure No.13

Maruthomkara Grama Panchayat		
Maruthonkara.P.O , Pin-673513,		
Phone:0496-2666048		
Inward No	5474	Year
Date of Receipt	29/12/2015	2015
Name of Applicant	IMPACT ENVIRMENT , TVM	
Subject	ENVIRMENT CERTIFICATE	
Date of Delivery		
Section	A1	
Remarks :		
Counter No. & Staff :	29/12/2015 10:42:38AM	Secretary

A1576454

KREWS (GLM, KANJIKODE) 2014

Cheques are subject to realisation

Acknowledgement received from Gram Panchayat

Annexure No.14

**DRAFT REPORT**

Test Report No: 20200714/R028	Date: 18.07.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Nellikunnu Granite & Crusher Pvt Ltd Vannathichira, Kavalumpara, Kozhikode District	
Location of Site	Survey No	523/1 Part, 571/1 Part, 567 Part	
	Village	Maruthonkara	
	Panchayath	Maruthonkara	
	Taluk	Vadakara	
	District	Kozhikode	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	20200714/S028
Location of Monitoring	North -West Boundary	Sampled By	By Laboratory
Date of Monitoring	14.07.2020	Test Started On	15.07.2020
Sample Received On	15.07.2020	Test Completed On	18.07.2020
Humidity	78%	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	39.9	100 (Max)
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	20.6	60.0 (Max)
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

End of Report

For and on behalf of
Standard's Environmental & Analytical Laboratories

(Signature)
Authorized Signatory
Laiju P. N.
Laboratory Head

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

Ambient air Level

Annexure No.15

**DRAFT REPORT**

Test Report No: 20200714/R029	Date: 18.07.2020	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Nellikunnu Granite & Crusher Pvt Ltd Vannathichira, Kavalumpara, Kozhikode District
Location of Site	Survey No	523/1 Part, 571/1 Part, 567 Part
	Village	Maruthonkara
	Panchayath	Maruthonkara
	Taluk	Vadakara
	District	Kozhikode
	State	Kerala
Customer Reference	---	
SAMPLE DETAILS		
Source of sample	Ambient Sound Level	
Sample Code	20200714/S029	
Location of Monitoring	North -East Boundary	
Date of Monitoring	14.07.2020	
Method	IS 9989:1981 RA:2008	

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	37.3 dB (A)	23.00 Hrs	36.5 dB (A)
07.00 Hrs	40.0 dB (A)	00.00 Hrs	36.2 dB (A)
08.00 Hrs	44.3 dB (A)	01.00 Hrs	36.9 dB (A)
09.00 Hrs	47.7 dB (A)	02.00 Hrs	36.5 dB (A)
10.00 Hrs	50.1 dB (A)	03.00 Hrs	37.2 dB (A)
11.00 Hrs	53.1 dB (A)	04.00 Hrs	36.2 dB (A)
12.00 Hrs	50.4 dB (A)	05.00 Hrs	37.9 dB (A)
13.00 Hrs	49.7 dB (A)	RESULTS	
14.00 Hrs	50.1 dB (A)		
15.00 Hrs	50.4 dB (A)	Noise Level (Leq) Daytime	48.5 dB (A)
16.00 Hrs	51.6 dB (A)		
17.00 Hrs	52.0 dB (A)		
18.00 Hrs	46.6 dB (A)		
19.00 Hrs	43.1 dB (A)		
20.00 Hrs	39.3 dB (A)	Noise Level (Leq) Nighttime	36.5 dB (A)
21.00 Hrs	38.8 dB (A)		
22.00 Hrs	36.2 dB (A)		

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Laiju P. N.
Laboratory Head**Standard^S Environmental & Analytical Laboratories**

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

Ambient Water Level

Annexure No.16

**TEST REPORT**

Test Report No: 20200714/R030	Date: 18.07.2020	Page 1 of 1
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CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Nellikunnu Granite & Crusher Pvt Ltd Vannathichira, Kavilumpara, Kozhikode District	
Location of Site	Survey No	523/1 Part, 571/1 Part, 567 Part	
	Village	Maruthonkara	
	Panchayath	Maruthonkara	
	Taluk	Vadakara	
	District	Kozhikode	
	State	Kerala	
Customer Reference	---		
SAMPLE DETAILS			
Sample Code	20200714/S030	Sample Received On	15.07.2020
Sample Name	Water	Sampling Procedure	---
Sample Description	Bore Well	Sampling Location	South East Side
Identification By Customer	---	Sample Condition	Good
Sampled On	---	Test Started On	15.07.2020
Sampled By	Customer	Test Completed On	18.07.2020

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018	---	Agreeable	Agreeable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.70	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.88	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	239	---
06	Total Dissolved Solids	IS 3025 Part 14:1984 RA 2019	mg/L	155	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 16:1984 RA 2017	mg/L	76.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 21:2009 RA 2019	mg/L	16.8	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 40:1991 RA 2019	mg/L	8.28	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 46:1994 RA 2019	mg/L	28.2	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 32:1988 RA 2019	mg/L	56.7	200 (Max)
12	Iron (as Fe)	IS 3025 Part 23:1986 RA 2019	mg/L	0.32	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 53:2003 RA 2019	mg/L	4.20	200 (Max)
14	Total Coliform Bacteria	IS 15185: 2016	----	Absent/100 ml	Absent
15	E coli	IS 15185: 2016	----	Absent/100 ml	Absent

End of Report

For and on behalf of
Standard S Environmental & Analytical Laboratories

Authorized Signatory
Laju P. N.
Laboratory Head

Standard S Environmental & Analytical Laboratories

Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Ambient Noise Level