

COMPLIANCE REPORT

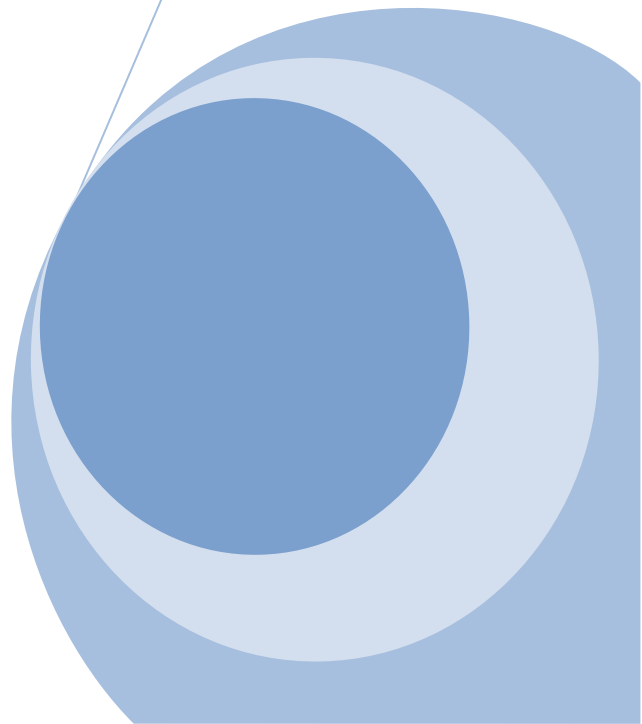
OCTOBER 2018 – MARCH 2019

M/s Blue Mountain Granites

(Quarry Project)

Thrissur District

Kerala





Blue Mountain Granites

Vellikulangara P.O., Trichur Dt. Kerala, Pin - 680 699
Tel : 0480 - 2743231, 2741432

Dt. 21-06-2019

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. 626/SEIAA/EC1/4809/2014

**Sub :- Environment Clearance – Quarry project at Vellikulangara Village,
Mattathur Panchayat, Chalakudy Taluk, Thrissur District, Kerala – Compliance Report
– Second half – Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 3.0352 Ha. by order No. 626/SEIAA/EC1/4809/2014, dated 05/02/2016 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second Half** (October 2018 – March 2019) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,
Yours respectfully,

For BLUE MOUNTAIN GRANITES

Partner

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.

Manufacturers of Aggregates

COMPLIANCE REPORT

**TO
THE CONDITIONS
OF**

ENVIRONMENTAL CLEARANCE ORDER

NO: 626/SEIAA/EC1/4809/2014

DATED: 05-02-2016

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

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

AT

**SURVEY NO. 1982, VELLIKULANGARA VILLAGE, MATTATHUR
PANCHAYAT, CHALAKUDY TALUK,
THRISSUR DISTRICT,
KERALA**

BY

**M/S BLUE MOUNTAIN GRANITES,
VELLIKULANGARA POST, CHALAKUDY
THRISSUR DISTRICT,
KERALA-680699**

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INTRODUCTION

The quarry project of **M/s Blue Mountain Granites** is situated at Survey No. 1982, Vellikulangara Village, Mattathur Panchayat, Chalakudy Taluk, Thrissur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 05-02-2016. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of Second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2018 – March 2019** is being submitted.

COMPLIANCE REPORT
(SPECIFIC CONDITIONS)
PART A

PART – A– SPECIFIC CONDITIONS

1	Fencing should be provided all around the lease area. The mandatory buffer distance must be left by the side of forest teak plantation, road and H T line.	Complied
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Compliance

The project proponent has installed fencing around the area in order to demarcate the lease area. As per the stipulation, mandatory buffer distance has left from teak plantation, 100 meter distance to H T line and village road from the project site.

2	Overburden must be stored in the designated places and provided with protective support walls	Complied
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Compliance

To prevent sliding, the project has constructed strong protective support walls. The overburden extract during the time of mining has staked in designated place in the project site. The overburden is used for making haulage road in the project site. No overburden will let out from the project site. The excess overburden is staked in a designated place.

3	The RWH structure and water clarification mechanism provided must be maintained throughout. Periodic de siltation is mandatory	Being complied
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Compliance

All runoff from the project site is collected in the de siltation pond so that all sediments can settle down at the bottom of the pond. The project provided de siltation mechanism in the quarrying area. This mechanism is maintaining throughout for preventing quarry waste entering in to the main stream. Periodically the project clears sediments from the pond.

4	Steps should be taken to limit fly rock within the lease area	Complied
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Compliance

During blasting optimum delay sequence is maintained and stem to column ratio to minimize the fly rock distance. The project proponent is using electric/ordinary delayed detonator for blasting. The blasting is carrying out under the supervision of qualified person. Therefore there is no issue with fly rock in the community and the project is also assuring the maximum PPV is under 10.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART – B – GENERAL CONDITIONS

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

To collect rain water from the entire project land, the proponent has developed rain water harvesting pond in the quarrying area. The pond is developed from mined quarry pit. The surface runoff is canalized to the pond through garland drains. The stored rain water is using for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission.

2	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 project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. Eldhose Kuriakose (Partner) as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the Environment Monitoring Cell are given below.

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

Sl. No.	Post	Name
1.	Head of the monitoring cell	: Eldhose Kuriakose
2.	Member	: Basavaraj Swamy
3.	Member	: Ajesh Sebastian

3	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

To enrich vegetation and prevent air pollution, the project proponent planted suitable avenue trees along either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present. The details of vegetation along the road side are given below in **table No.2.**

TABLE No. 2 - Details of the natural vegetation existing along the road side

Sl. No.	Scientific Name	Common Name	Family	Type
1.		Rambuttan	Sapindaceae	
2	<i>Psidium guajava</i>	pera		
3	<i>Mangifera indica</i>	Mavu	Anacardiaceae	Tree
4	<i>Hevea brasiliensis</i>	Rubber	Euphorbiaceae	Tree
5	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
6	<i>Bambusa bambos</i>	Mula	<i>Poaceae</i>	Herb
7	<i>Chromolaena odorata</i>	Communist-pacha	Compositae	Shrub
8	<i>Cocos nucifera</i>	Thengu / Coconut	Arecaceae	Tree
9	<i>Tectona grandis</i>	Thekku	Verbenaceae	Tree

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

The installation of solar can reduce the consumption from conventional sources therefore the project is intending to use maximum renewable energy to reduce electrical consumption from KSEB. As part of this, the project proponent is yet to install a solar street light in the project site.

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

To prevent dust emission, sprinklers are installed in the project site. The sprinklers installed in and around the crusher unit. To arrest the dust emission from the approach road and the haulage road, the project proponent has deployed a tanker vehicle to splash water.

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

The eco restoration plan prepared by the project will be executed in a good manner. The project 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. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal. The planted and proposed sapling to be planted in the project site is given below in the **table No. 3**.

TABLE 3 - Details of the saplings planted within the project area

Sl. No.	Scientific Name	Common Name	Family	Habitat
1	<i>Mangifera indica</i>	Mavu	<i>Anacardiaceae</i>	Tree
2	<i>Capsicum frutescens</i>	Kantharimulaku	<i>Solanaceae</i>	Herb
3	<i>Carica papaya</i>	Papaya	<i>Caricaceae</i>	Tree
4	<i>Artocarpus heterophyllus</i>	Plavu	<i>Moraceae</i>	Tree
5	<i>Curcuma longa</i>	Manjal	<i>Zingiberaceae</i>	Herb
6	<i>Cocos nucifera</i>	Thengu	<i>Arecaceae</i>	Tree
7	<i>Musa paradisiaca</i>	Vazha	<i>Musaceae</i>	Herb
8	<i>Swietenia mahagoni</i>	Mahagony	<i>Meliaceae</i>	Tree
9	<i>Tectona grandis</i>	Thekku	<i>Verbenaceae</i>	Tree
10	<i>Hevea brasiliensis</i>	Rubber	<i>Euphorbiaceae</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	Will be complied
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	be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly.	
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Compliance:

The project is intending to retain 10 percent of total excavated pit as rain water storage area after closure of the mine. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the 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	Being complied
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Compliance:

The activities under Corporate Social Responsibility (CSR) activities are executed in the sector of Health, sports, education, marriage, death etc. The project proponent is intending to carry out more activities under CSR for inclusive growth in the community. The details are given below

TABLE 4 - Details of activities performed under CSR

Sectors	Activities	Particulars	Amount Spent In Rs.
Arts, Sports & Festival	Donation	Advertisement in Dairy of KSEB Engineer Association	10,000.00
	Donation	Advertisement to Kseb Diary	7,000.00
	Donation	Kera Karshaka Sangam	500.00
	Donation	Humanistic Right Protection	1,000.00
	Donation	Vanithamthil	15,000.00
	Donation	Anti Liquor Samithy	100.00
	Donation	Yuvakala Samathy	500.00
	Donation	Forest Association	10,000.00

	Donation	Govt Up School	10,000.00
	Donation	Kerala Forest Drivers	6,000.00
	Donation	Kseb Workers Federation	2,000.00
	Donation	Armed Forces Flag Day Coupon To Police Station	3,000.00
Church/Temple	Donation	<i>Goods Samiritan</i>	12,000.00
	Donation	<i>Sree Dura Temple Vellikulangara</i>	30,000.00
	Donation	<i>Ambalathra Temple</i>	1,000.00
	Donation	<i>Ambalathra Temple</i>	1,000.00
	Donation	<i>Temple</i>	2,000.00
	Donation	<i>Korechal Temple</i>	10,000.00
	Donation	<i>X'mas Carol Jacobit Church</i>	2,000.00
	Donation	<i>Kodunga Temple</i>	5,000.00
General Help	Donation	<i>Kuttan Vellikulangara</i>	2,000.00
	Donation	<i>Sabu Colony</i>	500.00
	Donation	<i>Ajesh</i>	10,000.00
	Donation	<i>Prabhakaran</i>	500.00
	Donation	<i>Assis</i>	6,000.00
	Donation	<i>Biju Colony</i>	2,500.00
	Donation	<i>Aiswarya C/O Sheela Thilakn</i>	250.00
	Donation	<i>Thilakamani</i>	1,000.00
	Donation	<i>K C</i>	2,000.00
	Donation	<i>Saheer Vlka</i>	3,000.00
	Donation	<i>Krishnakumar</i>	500.00
	Donation	<i>M& G</i>	500.00
	Donation	<i>Police Station</i>	1,000.00
	Donation	<i>Shaji Colony</i>	4,000.00

	Donation	Biju Colony	1,000.00
	Donation	Ajesh M&G	1000.00
Health	Donation for Treatment	<i>Eldho George</i>	17,000.00
	Donation for Treatment	<i>Jiju Kuruvilla</i>	25,000.00
	Donation for Treatment	<i>Saifu, Vlka, Treatment</i>	2,500.00
	Donation for Treatment	<i>Mani Prabhakaran</i>	5,000.00
	Donation for Treatment	<i>Padmini Cancer</i>	5,000.00
	Donation for Treatment	<i>Paid To Cancer Patient</i>	1,000.00
	Donation for Treatment	<i>Brain Tumer Patient</i>	2,000.00
	Donation for Treatment	<i>Thilakan</i>	1,000.00
Infrastructure Develoment	Donation for House Construction	Renjith Security	10,000.00
Social	Donation	Prasad Colony	3,000.00
	Donation	Prabhakaran Colony	500.00
	Donation	Kerala Congress	250.00
	Donation	CPM Vlka	7,500.00
	Donation	Baby Colony	1,000.00
	Donation	Karshaka Congress	3,000.00
	Donation	Krishnan BJP	3,000.00
	Donation	Aituc District Meeting	1,500.00
	Donation	Thilakamani	5,000.00
	Donation	Thanka Colony	500.00
	Donation	Dalith Congress (I)	1,000.00
	Donation	CPI Party Fund Local	5,000.00
	Donation	Duf Paid	250.00
	Donation	Aituc	1,500.00
	Donation	Snehodaya Charitable Trust	500.00
	Donation	Cpi Pravasi Federation	2,000.00

	Donation	Rjd	500.00
	Donation	Dawf	2,000.00
	Donation	Aks	5,000.00
	Donation	Bharathan Colony	1,000.00
	Donation	An Accident Patient	5,000.00
	Donation	Mahila Association Cpm	1,500.00
	Donation	Sfi Area Fest	1,000.00
	Donation	Muslim Leage	500.00
	Donation	Sulochana Colony	1,000.00
	Donation	Prabhakaran Colony	500.00
	Donation	Congress	1,000.00
	Donation	KSU	500.00
	Donation	Congress Vkla	3,000.00
	Donation	CPM	1,000.00
	Donation	CPI(MI)	3,000.00
	Donation	Paliative Care Unit	10,000.00
	Donation	Muslim Leage	1,000.00
	Donation for funeral	Kattipokam	5,000.00
	Donation	KPMS	500.00
	Donation	SFI	500.00
	Donation	Red Army Kodali	5,000.00
	Donation	Sulochana Colony	500.00
	Donation	Biju Colony	500.00
Total			3,17,350.00

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 prevent falling of animals/human being/dumping of garbage etc, the project has erected barbed metal wire fencing around the mining area with height of 5 ft.

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:

To give warning to the labours and community prior to the blasting in quarry, the project proponent installed warning alarms as per the stipulation of Explosive department in the quarry site. This is properly working prior to the blasting time. This alarm can intimate the general public that the blasting is going to happen. The blasting time of the quarry is in between 12.01pm to 12.30 pm.

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. The quarry working time is 8.00 am to 5.00 pm. This will help to limit the sound pollution.

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 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 has appointed Second Class Manager, foreman and mining mate to supervise/control the blasting operations for the exploitation of minor minerals in the project site. The copies of certificates of qualified persons are provided in **Annexure No. 6.**

15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Being Complied
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Compliance:

To contain dust emissions, the project has tarred the access road of 500 meters to the quarry site. The project is spraying water on the road to arrest the dust production during summer season. The project proponent is intending maintain access road to the quarry in good condition for dust emission and easiness of transportation of vehicles.

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

The overburden and topsoil need to extract during the time of mining, these natural resources are being staked in the project site. There is no old quarry in the site for restoration. The overburden materials are stored within the site at designated place. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site.

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

The quarrying activity in the project is progressing by creating benches of 5m width and 5m height.

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

The project is yet to use mats during the time of 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.

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

No mining operation is carried out with a slope greater than 45°.

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 sound amplification, the machines of crusher unit is housed with solid bricks. A green belt is also developed around the unit to reduce noise and air pollution. This helps the noise and sound level is kept within the prescribed standards. The labours in the unit are wearing ear plugs to reduce the impact of noise generating from the machines. The project proponent is maintained all machineries in a good manner.

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 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.

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 project proponent ensured that all storm water from the mining area is flowing in to the drainages created at lower slopes of mining area. The project proponent has created 2 tanks in the lower slopes. The water is letting out only through the motor pumping from the collection point. The project proponent has initiated steps to create garland drains where it is necessary in the project area for storm water management.

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

The project assure that the trucks are covered to avoid dust emission from the vehicle while transportation of materials.

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

The project started to plant various saplings in the project area as a compensation of loss of trees while the project is 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.	Noted
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Compliance:

The spend oil will be sold only to the approved recyclers, some time it is using as lubricant in the project site.

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.

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 distance of the nearest house was 170 meter form the quarry, the KSPCB condition is 100 meter.

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

There is no forest area near to the project site. The project proponent has left adequate buffer distance from the quarry to the nearest teak plantation.

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 has obtained “*Consent to Operate*” (Renewal) from Kerala State Pollution Control Board. The copy of consent is provided in **Annexure No.1**.

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

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

TABLE 5 – APPROVALS FROM COMPETENT AUTHORITIES

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

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

In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

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:

The project is willing to add additional safe guard measures subsequently if the authority found necessary.

34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, The Environment (Protection) Act, 1986, the public liability (Insurance) Act, 1991 and EIA notification, 2006.	Noted
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Compliance:

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

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

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</u>	Complied
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	<u>should be forwarded to the office of this authority as confirmation.</u>	
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Compliance:

An advertisement in two local daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. . The copy of the advertisement given in two local newspapers is provided at **Annexure No.7**. The details are given below in the table.

Table No.6 - Details of news paper where advertisement published

News paper	Language	Date
Kerala Kaumudhi	Malayalam	10/03/2016
Indian Express	English	10/03/2016

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 project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone.

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	Complied
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	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.	
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Compliance:

The compliance report is being submitted to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail. The monitored data of Air, Water and Noise is attached as **Annexure No. 8, 9 & 10.**

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
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Compliance:

The detail of the Environmental Clearance is prominently displayed in a metallic board with the specific conditions as per specifications mentioned in the condition.

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	Noted
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	permit, license on consent given by any other authority for the same project.	
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Compliance:

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

ANNEXURE

Annexure No.1



KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/TSR/IC/5069/08
 Date of issue : 27/04/2017

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No.: PCB/DO/TSR/R2/ICO/2758/2017

Ref: APPLICATION DATED : 27-01-17
 CONSENT NO: PCB/DO/TSR/R1/ICO/2758/2014

The 'Integrated Consent to Operate' issued as per reference above to M/s BLUE MOUNTAIN GRANITES (QUARRY) VELLIKULANGARA P.O THRISSUR - 680 693 is hereby renewed up to 30/04/2020 and issued to M/s BLUE MOUNTAIN GRANITES (QUARRY) VELLIKULANGARA P.O THRISSUR - 680 693. 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

II. Stack Details

Stack No.	Source of Emission	Emission Rate (Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level (In Meters)	Roof Level (In Meters)	

III. CONDITIONS

- 3.1 The PM10 in ambient air at the boundary shall not exceed 100 µg/m³.
- 3.2 The PM2.5 in ambient air at the boundary shall not exceed 60 µg/m³.
- 3.3 The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
- 3.4 Suspended particulate matter at the boundary of the premises shall not exceed the limit applicable to that area as per the National Ambient Air Quality Standards.
- 3.5 The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearance from other concerned authorities is obtained.

Consent to operate

Annexure No. 2

SF



Validity expires on 04-02-2021

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

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

Sub: SEIAA- Environmental Clearance for the proposed building stone quarry project in Survey No. 1982 at Vellikulangara Village, Mattathur Panchayath, Chalakkudy Taluk, Thrissur District by Sri. Mathew P Pathrose, Managing Partner, M/s Blue Mountain Granites -Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 626/SEIAA/EC1/4809/2014

dated, Thiruvananthapuram 05-02-2016

- Read:-* 1. Application dated 30-09-2014 submitted by Sri. Mathew P Pathrose, Managing Partner, M/s Blue Mountain Granites, Vellikulangara P.O., Chalakkudy, Thrissur – 680699
2. Minutes of the 45th meeting of SEIAA held on 04- 12- 2015.
3. Minutes of the 46th meeting of SEAC held on 29/30-09-2015.
4. Minutes of the 48th meeting of SEAC held on 06/07-11-2015.
5. Minutes of the 47th meeting of SEIAA held on 07-01-2016.

Environmental Clearance No. 12/2016.

Sri. Mathew P Pathrose, Managing Partner, M/s Blue Mountain Granites, Vellikulangara P.O., Chalakkudy, Thrissur – 680699 vide his application received on 09/10/2014 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 1982 at Vellikulangara Village, Mattathur Panchayath, Chalakkudy Taluk, Thrissur District for an area of 3.0352 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) dtd. 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 in 10°21'57.69" N to 10°21'49.02" N Latitude and 76°25'09.87"E to 76°25'04.05"E Longitude. The land use classification as per revenue records is private own land with rocky area consists of 3.0352 hectares. Main rock type in the area is charnockite visible at some places and covered with soil of 0.15 m to 0.20 m. The area is undulated and slope towards southern side with highest elevation of the area is at 90m MSL and lowest is at 45 m MSL. The present land use is some native trees, shrubs, herbs etc. The proposed project is for quarrying of 120,000 MTA of building stone from an area of 3.0352 hectares of land. Domestic effluent will be discharged in septic tank and soak pit system. The quarry operation is

EC order


Annexure No.3


Page 1 of 1

LICENCE FORM LE-3
(See article 3(a) to (d) of Part I of Schedule IV of Explosives Rules, 2008)

Licence to possess : (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine

Licence No. : E/SC/KL/22/862(E40290)
Annual Fee Rs:2000/-





1. Licence is hereby granted to : **Mathew.M.Pathrose (Occupier : Mathew.M.Pathrose - Blue Mountain Granite, Velikulangara Post, Thrissur District, Town/Village - District-, State-, Pincode - 0**

2. Status of licensee : **Individual**

3. Licence is valid only for the following purpose : possess for use of **Nitrate Mixture, Safety Fuse, Detonators**

4. (a) Licence is valid for the following kinds and quantity of explosives:

Sr. No.	Name and Description	Class & Division	Sub-division (If any)	Quantity at any one time
1.	Nitrate Mixture	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	1700 Mtrs
3.	Detonators	6,3	0	9000 Nos.

(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. The licensed premises shall conform to the following drawing(s):
Drawing No : **E/SC/KL/22/862(E40290)** dated : **01/03/2007**

6. The licensed premises are situated at following address:
Survey No(s). **1982** . Town/Village : **Vellikulangara**
Police Station : **Vellikulangara** District : **THRISSUR** State : **Kerala**
PinCode : Phone : E-Mail : Fax :

7. The licensed premises consist of following facilities : **2 Portable Explosives Magazines of T-1103 & E-501**

8. The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
(1) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
(2) Conditions and Additional Conditions of this licence signed by the licensing authority.
(3) Distance Form DE-2

9. This licence shall remain valid till **31st day of March 2009**

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.

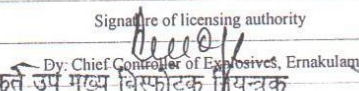
The Date: 01/03/2007

Sd/-
Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 05/09/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 10/09/2013


Endorsement for renewal of licence:

Date of Renewal	Date of Expiry	Signature of licensing authority
12/03/2014	31/03/2019	 Dy: Chief Controller of Explosives, Ernakulam കൂത ഉപ മുഖ്യ വിस्ഫोटക നിയന്ത്രക For Deputy Chief Controller of Explosive എറണാകുളം / Ernakulam

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

License - explosive


Annexure No. 4



ലൈസൻസ് നമ്പർ..... 135/18-19 . തീയതി 03.04.2018
 മുത്തൂർ ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും
 1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ
 വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു നൽകുന്ന

ഡി & ഒ ലൈസൻസ്

ലൈസൻസിനു പേരും മേൽവിലാസവും	മാതം. മം. പട്രോസ്. മാണേജിംഗ് പാർട്ണർ ബ്ലൂ മൗണ്ടൻ ഗ്രാനൈറ്റ്സ്, വെള്ളിമുക്ക്.	
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	ബ്ലൂ മൗണ്ടൻ ഗ്രാനൈറ്റ്സ്, വെള്ളിമുക്ക്.	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	300 HP ചിലോറിച്ച് ക്വാറി നടത്തുന്നതിന്.	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	X / 25	
ലൈസൻസ് കാലയളവ്	01.04.2018 മുതൽ 31.03.2019 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	6500 + 3000 PT 2500	രസീത് നമ്പർ 117030110951 117030110952 20.3.18.
ലൈസൻസ് അനുവദിക്കു നതിനായി ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. Quarrying lease Validity 27.02.2028. 2. PCB Consent No. PCB/DOL/TSR/R2/KCD/ Validity 2758/2017 dt. 12.1.18. 3. Petroleum and Explosive Safety Organisation No E/Sc/KL/22/862 (E4029) dt: 31.1.18 validity - 31.03.2019. 4. Environment Clearance certificate 626/ECI/4809/2014/SE/AA dt. 5.2.16	



GLM-30-Y-2014

വി.മി.തോഷകുമാർ
 സെക്രട്ടറി
 മുത്തൂർ ഗ്രാമപഞ്ചായത്ത്
 മുത്തൂർ പി.ഒ. മുറ്റം
 ഫോൺ: 9496046125

License Gram Panchayat

Annexure No. 5

No.10799/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:21/02/2018

From
The Director of Mining & Geology

To ✓ M/s Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699
(Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose,
Residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad,
Ernakulam District—683561

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. 770/2017-18/10799/M3/2017/DMG Dated: 21/02/2018
2. Pro.order. No. 626/SEIAA/EC1/4809/2014 dated 05/02/2016 (E .C No. 12/2016) &
Erratum Order No. 626/EC1/4809/2014/SEIAA dated 24/01/2017 of the State
Environment Impact Assessment Authority, Kerala.
3. Kerala Minor Mineral Concession Rules, 2015.
4. Kerala Minerals (Prevention of illegal Mining, Storage & Transportation) Rules 2015
5. Mines & Minerals (Development & Regulation) Act 1957.

Please refer to the Proceedings Order cited above wherein a lease for Granite (Building Stone) is granted to **M/s Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699 (Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose, Residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad, Ernakulam District—683561.** 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 **Sr.Geologist, District Office, Thrissur** 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.30, 352/- (Rupees Thirty thousand three hundred and fifty two only)** being the security deposit is enclosed herewith duly countersigned. Please affix your signature at the appropriate places before remittance of money in the treasury. The original treasury receipted chalan may also be produced along with the typed copies of the lease deed and the draft form 'H' which is enclosed herewith, before the Geologist, District Office, Thrissur 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.

Encl: as above

Yours faithfully

for DIRECTOR OF MINING & GEOLOGY (i/c)



Copy to -

The Sr. Geologist, District Office, Thrissur
(Letter No.2112/C2/TDO/2017 dtd 27/11/2017 & 21/12/2017)

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 Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699 (Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose, Residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad, Ernakulam District—683561)- sanctioned-orders –issued.**

- Ref.** 1. Application dtd. 17/08/2017 from **M/s Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699 (Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose, residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad, Ernakulam District—683561)**
2. Letter No.2112/C2/TDO/2017 dtd 27/11/2017 & 21/12/2017 from the Senior Geologist, District Office, Thrissur.
3. Letter of Intent No. 10799/M3/2017 dtd 27/12/2017
4. Pro.order No. 626/SEIAA/EC1/4809/2014 dated 05/02/2016 (E .C No. 12/2016) & Erratum Order No. 626/EC1/4809/2014/SEIAA dated 24/01/2017 of the State Environment Impact Assessment Authority, Kerala
5. Mines and Minerals (Development & Regulation) Act, 1957.
6. Kerala Minor Mineral Concession Rules, 2015.
7. Kerala Minerals (Prevention of Illegal Mining, Storage & Transportation) Rules 2015.

No.770/2017-18/10799/M3/2017/DMG

Dated, Thiruvananthapuram 21/02/2018

ORDER

A quarrying lease is granted to **M/s Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699 (Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose, residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad, Ernakulam District—683561)** to quarry **Granite (Building Stone)** over an area of **3.0352 Hectares** of land comprised in **Survey No. 1982 of Vellikulangara Village, Chalakkudy Taluk, Thrissur District** for **Ten (10) 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 (LR), Chalakkudy** 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 **79, 195 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 them.
15. The lessee shall obtain all other statutory licences/clearances/No Objection Certificates from other authorities concerned including Explosive licence, consent from Pollution Control Board and D & O licence from the Local Self Government Department concerned.
16. The lessee shall produce scheme of mining before completion of five years of operation of the quarry.
17. The lessee shall produce a financial guarantee for **Rs. 1, 00, 000/- (Rupees one lakh 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 **04/02/2021** for the operation of the quarry for the remaining period.
21. The quarrying permit granted from the district office, if any, in the area of this quarrying lease is hereby stands cancelled from the date of this order.
22. The lessee shall comply all the conditions maintained in the statutory licenses. 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/-

C. K. BAIJU

DIRECTOR OF MINING & GEOLOGY (I/C)

To

M/s Blue Mountain Granites, Vellikulangara P. O, Thrissur District – 680 699
(Represented by its Managing Partner, Shri. Mathew. M. Pathrose, S/o Pathrose,
Residing at Madappillil House, Malayidomthuruth, Edathala, Kunnathunad, Ernakulam
District—683561

Copy to:




1. The Director of Mines Safety,
No.5, 100FT,Road,17th Main, Koramangala 4th Block
Bengaluru, Karnataka – 560034
2. The District Collector, Thrissur
3. The Sr. Geologist, District Office, Thrissur
4. The Tahsildar, Chalakkudy
5. Stock File (2), File copy

BY ORDER


JUNIOR SUPERINTENDENT


Lease order

Annexure No. 6

 सत्यमेव जयते		 Kallempudi Nagendra
Cert No. FRE /3779		
भारत सरकार/Government of India खान अधिनियम, 1952/Mines Act, 1952 खनन परीक्षा बोर्ड/Board of Mining Examinations		
फोरमैन सक्षमता प्रमाण-पत्र FOREMAN'S CERTIFICATE OF COMPETENCY (केवल ओपनकास्ट खानों तक सीमित) (Restricted to mines having opencast working only) (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961)		
श्री कल्लेमपुडी नागेन्द्र जिनकी जन्म तिथि 20.08.1993	सुपुत्र कल्लेमपुडी राजुबाबु है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के लिए फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 07.07.2015 से प्रभावी है।	
Shri Kallempudi Nagendra born on 20 th August, 1993	son of Kallempudi Rajubabu having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted FORMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 07.07.2015	
सचिव खनन परीक्षा बोर्ड Secretary Board of Mining Examinations	self attested K. Nagendra	अध्यक्ष खनन परीक्षा बोर्ड Chairman Board of Mining Examinations
Signed and Sealed Date 04.03.16		

Inst. Code 526	Establishment: 2000	Ph. 08153 - 270975 08153 - 270975
Joint Development and Benevolent Educational Trust (R)		
	ಶ್ರೀ ವಿನಾಯಕ ಪಾಲಿಟೆಕ್ನಿಕ್ SHREE VINAYAKA POLYTECHNIC	
	Recognised by Govt. of Karnataka. Affiliated by AICTE F.No. 770-53-274/SWRO/2009 Date 17 July Behind St. John's Church, Near School of Mines, Coromandel Post, K.G.F. - 563 118. Kolar Dist. Karnataka. e-mail: msgvi@yahoo.com Website: shreevinayakagroup.org	
Ref. No SVP / BTE / 526MN12026	Date: 19/03/2018	
ತಾತ್ಕಾಲಿಕ ಡಿಪ್ಲೋಮಾ ಪ್ರಮಾಣ ಪತ್ರ Provisional Diploma Certificate		
This is to Certify that Sri <u>SARAVANAN. P</u> ಈ ಸಂಸ್ಥೆಯ ವಿದ್ಯಾರ್ಥಿಯಾದ ಶ್ರೀ.....		
a Students of this Institute on has passed..... <u>Diploma</u>		
ರವರು:..... ನೇಯ ವರ್ಷದಲ್ಲಿ ನಡೆದ		
in..... <u>MINING</u> Engineering of Board of Technical		
ತಾಂತ್ರಿಕ ಪರೀಕ್ಷಾ ಮಂಡಲಿಯ..... ಇಂಜಿನಿಯರಿಂಗ್ ವಿಷಯದಲ್ಲಿ		
Examination held during <u>Nov/Dec 2017</u> with Reg. No. <u>526MN12026</u>		
ಸೋಂಪದ ಕ್ರಮಾಂಕದೊಡನೆ..... ತರ್ಗಡೆಯಾಗಿಯು ತ್ಯಾಜ್ಯವೂ ಆವರಿಸು		
and has been Placed in..... <u>Second</u> CLASS.		
ಸೇ ವರ್ಗದಲ್ಲಿ ಇರಿಸಲಾಗಿದೆಯೆಂದೂ ಪ್ರಮಾಣ ಪಡಿಸಲಾಗಿದೆ.		
During the period of his stay in the Institution his Character and Conduct were found		
<u>Good.</u>		
	<i>Selva Hantay</i> <i>Jana</i>	
	 PRINCIPAL Principal Sri Vinayaka Polytechnic Coromandel Post, K.G.F	

Certificate of Qualified Persons

Annexure No. 7



Advertisement in two news papers

Annexure No. 11

**TEST REPORT**

Test Report No: TC540219000001525F	Date: 22.04.2019	Page 1 of 1
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CUSTOMER DETAILS

Customer Details	Name & Address	M/s Blue Mountain Granites Vellikulangara, Chalakudy Thrissur District	
Location of Site	Survey No	1982	
	Village	Vellikulangara	
	Taluk	Chalakudy	
	District	Thrissur	
	State	Kerala	
Customer Reference	Test Request form dated 17.04.2019		

SAMPLE DETAILS

Source of Sample	Ambient Air	Sample Code	TC540219000001525F
Location of Monitoring	East side boundary	Sampled By	Laboratory
Date of Monitoring	17.04.2019	Test Started On	20.04.2019
Sample Received On	18.04.2019	Test Completed On	22.04.2019
Humidity	52 %	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	50.8	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	23.9	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0

End of Report

For and on Behalf of
Standard^s Environmental & Analytical Laboratories

Authorized Signatory

Laiju P. N.
Laboratory Head

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

Standard^s Environmental & Analytical LaboratoriesAccreditation and Approval: NABL as per ISO 17025: 2005 & "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, info@sealabs.in**Ambient Air**

Annexure No.12

**TEST REPORT**

Test Report No:TC540219000001527F	Date: 22.04.2019	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Blue Mountain Granites Vellikulangara, Chalakudy Thrissur District
Location of Site	Survey No	1982
	Village	Vellikulangara
	Taluk	Chalakudy
	District	Thrissur
	State	Kerala
Customer Reference	Test Request Form dated 17.04.2019	
SAMPLE DETAILS		
Source of Sample	Ambient Sound Level	
Sample Code	TC540219000001527F	
Location of Monitoring	North side Boundary	
Date of Monitoring	17.04.2019	
Method	IS 9989:1981 RA:2008	

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	39.3 dB (A)	23.00 Hrs	34.3 dB (A)
07.00 Hrs	42.1 dB (A)	00.00 Hrs	36.8 dB (A)
08.00 Hrs	46.6 dB (A)	01.00 Hrs	37.5 dB (A)
09.00 Hrs	50.2 dB (A)	02.00 Hrs	37.2 dB (A)
10.00 Hrs	52.7 dB (A)	03.00 Hrs	37.9 dB (A)
11.00 Hrs	55.9 dB (A)	04.00 Hrs	36.8 dB (A)
12.00 Hrs	53.1 dB (A)	05.00 Hrs	38.6 dB (A)
13.00 Hrs	52.2 dB (A)	RESULTS	
14.00 Hrs	52.7 dB (A)		
15.00 Hrs	53.1 dB (A)		
16.00 Hrs	54.3 dB (A)		
17.00 Hrs	54.7 dB (A)		
18.00 Hrs	49.0 dB (A)		
19.00 Hrs	45.4 dB (A)		
20.00 Hrs	41.3 dB (A)		
21.00 Hrs	40.8 dB (A)		
22.00 Hrs	38.1 dB (A)		
		Noise Level (Leq) Daytime	51.1 dB (A)
		Noise Level (Leq) Nighttime	37.2 dB (A)

End of Report

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

Authorized Signatory

Laiju P. N.

Laboratory Head

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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, info@sealabs.in

Result of ambient sound

Annexure No.13



TEST REPORT



Test Report No:TC540219000001526F		Date: 22.04.2019		Page 1 of 1	
CUSTOMER DETAILS					
Customer Details		Name & Address			
		M/s Blue Mountain Granites Vellikulangara, Chalakudy Thrissur District			
Location of Site		Survey No		1982	
		Village		Vellikulangara	
		Taluk		Chalakudy	
		District		Thrissur	
		State		Kerala	
Customer Reference		Test Request form dated 17.04.2019			
SAMPLE DETAILS					
Sample Code		TC540219000001526F		Sample Received On	
				18.04.2019	
Sample Name		Water		Sampling Procedure	

Sample Description		Bore well		Sampling Location	
				100 M away from the South - East direction of the Quarry	
Identification By Customer		---		Sample Condition	
				Good	
Sampled On		17.04.2019		Test Started On	
				18.04.2019	
Sampled By		Customer		Test Completed On	
				22.04.2019	

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	<0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	7.19	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2013	µS/cm	155	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	96.0	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2014	mg/L	37.6	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	7.92	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	4.82	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	19.9	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2014	mg/L	29.9	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.10	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2014	mg/L	9.12	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
15	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

End of Report

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

Authorized Signatory

Vidhyalakshmi Das
Microbiologist

Authorized Signatory

Lajju P. N.
Laboratory Head

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Result of drinking water