## COMPLIANCE REPORT

#### APRIL 2020 - SEPTEMBER 2020

# M/s ST. BASIL GRANITES

(QUARRY PROJECT)

THRISSUR DISTRICT
KERALA



Dt. 29-11-2020

#### 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. 61/SEIAA/KL/7682/2012

Sub :- Environment Clearance – Quarry project at Pananchery village and panchayat, Thrissur Taluk, Thrissur District, Kerala. – Compliance Report – First half – Reg.

#### Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for **4.8988 Ha**. by order No. **61**/SEIAA/KL/7682/2012, dated 01/10/2014 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 St. Basil Granites

The Real Graded Sand

FOR ST: BASIL GRANITES,

LALY OUSEPH, Managing Partner.

Ph: 9846343835

Copy to: The Chairman & The Member Secretary

State Environment Impact Assessment Authority (SEIAA) Thiruvananthapuram,

Kerala – 01

Encl: - As Above

Poovanchira P.O Thrissur (Dist) Kerala, Pin -680652,

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#### **COMPLIANCE REPORT**

TO

THE CONDITIONS

**OF** 

#### **ENVIRONMENTAL CLEARANCE ORDER**

NO: 61/SEIAA/KL/7682/2012

Dated: 02.01.2014

BY

### STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

**FOR** 

BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT

AT

SY. NO. 332/4, 340/5, 340/4PT, 331/4, 331/6P, 340/3,340/3P AND 340/4P AT PANANCHERY VILLAGE AND PANCHAYAT, THRISSUR TALUK, THRISSUR DISTRICT, KERALA

BY

M/S ST. BASIL GRANITES
THRISSUR DISTRICT
KERALA

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#### **INTRODUCTION**

Quarry project of **M/s St. Basil Granites** is situated at Sy. No. 332/4, 340/5, 340/4 pt, 331/4, 331/6 p, 340/3,340/3p and 340/4p at Pananchery village and Panchayath, Thrissur Taluk, Thrissur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 02.01.2014. 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 compliance report of First half 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 18<sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) 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 10<sup>0</sup>34'14.55 to 10<sup>0</sup>34'29.6596" Latitude (N) and 76<sup>0</sup>21'40.2541" to 76<sup>0</sup>21'40.2541"(E). The quarry is interlinked with a Crusher / M sand unit located within the complex. The Capacity is 2, 94,000 MTA. There are no litigations against the lease area or applicant in any court of law. Topography is hilly. Highest elevation is 100m MSL and lowest 63m MSL. The approximate daily water demand is 6 KLD and total power requirement is 150 kw.

# COMPLIANCE REPORT (SPECIFIC CONDITIONS) PART A

#### **PART - A - SPECIFIC CONDITIONS**

01	A safe buffer distance of 100 m shall be left from nearby	Complied
	settlements of land and within lease area without conducting	
	quarrying activities.	

#### Compliance:

A safe buffer distance of 100 m has left from nearby settlements of land and within lease area without conducting quarrying activities.

02	Retaining wall should be provided on the western part of	Complied
	garland drain to arrest the runoff and clarify the water	

#### Compliance:

On the western part of garland drain a retaining wall has provided to arrest the runoff and clarify the water.

03	Fencing	and	retaining	wall	should	be	provided	as	safety	Complied
	measure	to av	oid any un	towar	d incider	nt.				

#### Compliance:

The project proponent has provided fencing and retaining wall as safety measure to avoid any untoward incident in the project site.

**COMPLIANCE REPORT** 

(GENERAL CONDITIONS)

**PART B** 

#### **PART - B - GENERAL CONDITIONS**

(	)1	Rain Water Harvesting capacity should be installed as per the C	Complied
		prevailing provisions of KMBR / KPBR, unless otherwise	

#### 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 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. 1** 

02	<b>Environment Monitoring Ce</b>	l (EMC) as agreed	under the	Complied
	affidavit filed by the propon	ent should be forme	d and made	
	functional.			

#### Compliance:

The Environmental Monitoring Cell (EMC) was formed with Mr. K P Ouseph 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 **Table No. 1.** The NABET accredited consultant helps the company to upkeep the environment friendly mining

TABLE 1 - ENVIRONMENTAL MONITORING CELL (EMC)

SI. No.	Post	Name
1.	Head of the monitoring cell	K P Ouseph
2.	Head in charge (Environment)	Uma shanker
3.	Environment Officer in charge at Site	Basil. K. Elias
4.	4. Name of the Environment Consultant M/s Environmental Engine	
		Consultants Pvt. Ltd.

03	Suitable	aver	ue tr	ees sh	ould be p	lanted a	lor	ıg eith	er side of	the	Complied	
	tarred r	oad	and	open	parking	areas,	if	any,	inclusive	of		
	approach road and internal roads.											

The project proponent has been planting various tree saplings and native species in the project site to enhance the eco – diversity in the industry. Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted various avenue trees along either side of the road. 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 details of vegetation are given below **Table No. 2**. The copy of bill from nursery is given in **Annexure No.1**. The photograph of avenue trees is attached as **Plate No. 2**.

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

SI. No.	Scientific Name	Common Name	Family	Habit
1.	Swietenia mahagoni	Mahagony	Meliaceae	Tree
2.	Anacardium occidentale	Kasumavu	Anacardiaceae	Tree
3.	Artocarpus heterophyllus	Plavu	Moraceae	Tree
4.	Chromolaena odorata	Communist-pacha	Compositae	Shrub
5.	Coccos nucifera	Thengu / Coconut	Arecaceae	Tree
6.	Mangifera indica	Mavu	Anacardiaceae	Tree
7.	Pennisetum orientale	Oriental fountain grass	Poaceae	Herb
8.	Tabernaemontana	Kunnanpala	Apocynaceae	Tree
	alternifolia			
9.	Tectona grandis	Thekku	Verbenaceae	Tree
10.	Ziziphus oenopolia	Thodalli	Rhamnaceae	Climber

(	04	The	project	shall	incorporate	devices	for	solar	energy	Complied
		gene	ration an	d utiliza	ation whereve	r possible				

#### Compliance:

The installation of solar can reduce the consumption from conventional sources therefore the project proponent has installed twosolar panels in the project site to use

maximum renewable energy to reduce electrical consumption from KSEB. The 3 KV panel can generate energy for the operation of office building. Photograph of Solar panels is attached as **Plate No. 1.** The photograph of solar street lights and solar panel is provided in **Plate No.3**. The purchasing bill of solar street light is given in **Annexure No. 2**.

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

#### Compliance:

The emission of dust is a major adverse effect of a mining industry. To prevent dust emission, sprinklers are installed in the project site. The sprinklers installed in and around the crusher unit. This help to suppress dust during the time summer season. The photograph of effective utilization of sprinklers is provided at **Plate No. 4.** 

06	Eco-restoration including the mine closure plan shall be done at	Being
	the own cost of the project proponent.	Complied

#### 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 planted and proposed sapling to be planted in the project site is given below in the **Table No. 3.** The photograph of saplings planted maintained by the project proponent is given in **Plate No.5.** 

TABLE 3 Details of the saplings planted within the project area

SI. No.	Scientific Name	Common Name	Family	Habitat
1.	Artocarpus heterophyllus	Plavu	Moraceae	Tree
2.	Capsicum frutescens	Kantharimulaku	Solanaceae	Herb
3.	Carica papaya	Papaya	Caricaceae	Tree
4.	Coccos nucifera	Thengu	Arecaceae	Tree
5.	Curcuma longa	Manjal	Zingiberaceae	Herb
6.	Mangifera indica	Mavu	Anacardiaceae	Tree

7.	Musa paradisiaca	Vazha	Musaceae	Herb
8.	Swietenia mahagoni	Mahagony	Meliaceae	Tree
9.	Tectona grandis	Thekku	Verbenaceae	Tree
10.	Phyllanthus emblica	Nelli	Phyllanthaceae	Tree
11.	Azadirachta indica	Neem	Meliaceae	tree
12.	Ocimum tenuiflorum	Thulasi	Lamiaceae	Herb
13.	Tabernaemontana divaricata	Nandiyarvattom	Apocynaceae	Herb
14.	Cassia fistula	Goldenshower	Fabaceae	Tree

07	At least 10 percent out of the total excavated pit area should be	Will be
	retained as water storage areas and the remaining area should	complied
	be reclaimed with stacked dumpings and overburden and	
	planted with indigenous plant species that are eco-friendly.	

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.

80	Corporate Social Responsibility (CSR) agreed upon by the	Complied
	proponent should be implemented in tune with the conditions	
	specified in the Companies Act, 2013	

#### Compliance:

As part of inclusive growth of the community, the project proponent has executed various activities under Corporate Social Responsibility/ Corporate Environmental Responsibility (CER) of the firm with the consultation of Panchayath. The main activities were under the sectors of education. The project proponent is intending to carry out more activities under CSR/CER for inclusive growth in the community. The detail of CSR provided in the period of Second half is mentioned in

the **Table No.4**. The photograph of CSR activities is provided in **Plate No. 17**. The bill vouchers of CSR/CER are attached as **Annexure No. 13**.

<u>Table No.4 – Detail of performed activities under CSR/CER</u>

Sectors	Date of Activity	Beneficiaries	Amount
			spent in Rs.
Infrastructure		ROAD MAINTANANCE	
	24/5/2020	WORK,POOVANCHIRA TO	319600
Development		CHUVANNAMANU	
	15/8/2020	SUNI HOME RETAINING WALL	50630
	13/0/2020	CONSTRUCTION	
		KIDNEY DISEAS DONATION	
MEdical	29/5/2020	(DIALISIS MEDICAL HELP FOR	3000
		MR.A.V.SREENIVASAN	
		TOWARDS THE	
	08-04-2020	SPONSORSHIP OF 1000 COTS	150000
		& BEDS FOR COVID CARE	
Social	15/6/2020	CMDRF	400000
	15/6/2020	CMDRF	100000
		Total	1023230

09	Barbed metal wire fencing around the mining area shall be	Complied
	provided with a height of not less than 5 ft so that the falling of	
	animals/human beings/dumping of garbages etc. does not	
	happen	

#### 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.3**. The photograph of barbed metal wire fencing is provided in **Plate No.6**.

10	Warning alarms indicating the time of blasting (to be done at complied	
	specific timings) has to be arranged as per stipulations of	
	Explosive Department.	

#### 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. The timing of blasting in the quarry is in between 1.00 pm on all working days. The photograph of the warning alarm is provided at **Plate No. 7.** 

11	Control measures on noise and vibration prescribed by KSPCB	complied
	should be implemented.	

#### 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.
- Noise level at quarry site checked periodically. The sound levels are monitored through a NABL accredited laboratory during the quarry and crusher is in operation and the monitored results are well within the permissible limits.

#### 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.
- Appointed qualified personals for the blasting operation

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

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 8.00am to 5.00 pm.

13	Blast	ting should b	e do	one in a cont	rolled mannei	as	specif	fied by	Complied
	the	regulations	of	explosives	department	or	any	other	
	conc	erned agency	y.						

#### Compliance:

The blasting is done in controlled manner by using ordinary and electric 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	Complied
	o	perations.						

#### Compliance:

The project proponent has appointed a mining mate and second class manager to supervise/control the blasting operations for the exploitation of minor minerals from the project site. **Annexure No. 4** showing the certificate of Licensed Person.

15	Access	roads	to t	he quarry	shall	be	tarred	to	contain	dust	Complied
	emissio	ns that	may	arise duri	ng tran	spo	rtation	of ı	materials	•	

The project proponent has tarred the access road of 450 meter from the entrance of project site to quarry is maintaining in good manner in order to contain dust emissions and for the trouble free transportation of material,. The project proponent splashes water on the road to arrest the dust production during summer season. The photograph of tarred road is provided in **Plate No. 8.** 

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

#### 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 OB is shown in **Plate No.9**.

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

#### Compliance:

The quarrying has been carrying out as per mining plan. To enhance safety and conserve environment, the project proponent is extracting the minerals by creating benches. The benches will not exceed 5 meters of height. The project maintains the width of benches minimum of 5 meters. **Plate No.10** showing the work progressing in the quarry area.

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

#### Compliance:

The project proponent is using ordinary delayed detonator, therefore there is no incident of fly rock is happened in the community. The project proponent is also

assuring the maximum PPV is under 10 during the time of blasting. The project proponent is yet to use blasting mats in the mining field.

19	Mining depth should not exceed beyond 40 m, unless otherwise	Will be	
	specified or not below the level of the nearest stream bed,	complied	
	whichever is less.		

#### Compliance:

Mining depth will not exceed beyond 40 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.

Ī	20	No mining operations should be carried out at places having a	Not
		slope greater than 45 <sup>0</sup> .	applicable

#### 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	complied
	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.	

#### 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 hollow bricks. The photograph of crusher is provided in **Plate No.11.** 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	Complied
	protective equipments such as ear muffs, helmet, etc.	

As part of safety the project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, glows, etc. to the labours in working site. The photograph of the workers with PPE is given in the Plate No. 12.

23	Garland drains with clarifiers to be provided in the lower slopes	Complied	
	around the core area to channelize storm water.		

#### Compliance:

As part of effective management of storm water, the project proponent has constructed storm water drains in the lower slopes of the project area. The natural drain in the mining area helps to channelize the storm water to the pond created at mining area. The debris and sediments 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. 13**.

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

#### Compliance:

To avoid dust emission while transportation of materials, the project proponent assured the trucks were covered before it leaving the project site. The photograph of the covered truck is provided as **Plate No.** 14.

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

#### 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.** The photograph of planted trees is given in **Plate No. 5.** 

ſ	26	Disposal of spent oil from diesel engines should be as specified	complied	
		under relevant Rules/Regulations.		

#### 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	Complied
	specified and approved by the explosives department.	

#### 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 .15.** 

28	Norms of KSPCB should be adhered to regarding distance	Complied
	criteria of residences, roads, rivers and worship places.	

#### 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 103 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	Noted
	bou	nda	ries.							

#### Compliance:

There is no forest area near to the project site.

30	Consent from Kerala Pollution Control Board under water and	Complied
	Air act(s) should have been obtained before initiating activity.	

The Project proponent has obtained "Consent to Operate" (Renewal) from Kerala State Pollution Control Board. The copy of consent is provided in **Annexure 7.** 

31	All other statutory clearances should have been obtained, as	Complied	
	applicable, by project proponents from the respective		
	competent authorities including that for blasting and storage of		
	explosives.		
I			- 1

#### Compliance:

All statutory clearances, approvals, licenses are obtained from concerned authorities. All conditions stipulated in such approvals are strictly followed. The obtained approvals are mentioned in **Table No.4**. The certificates obtained from concerned statutory authorities are enclosed in **Annexure No. 6, 7, 8, 9 & 10**.

TABLE 5 – APPROVALS FROM COMPETENT AUTHORITIES

Name of the	Name of the Statutory authority	Approval Number & Date
Statutory approval		
Environmental	State Environmental Impact	61/SEIAA/KL/7682/2012
Clearance order	Assessment Authority, Kerala	Dated: 02/01/2014
"Consent to	Kerala State Pollution Control	PCB/TSR/IC/993-2008
Operate"	Board	Dated: 27/02/2016
(Renewal)		PCB/DO/TCR/R2/ICO/8034/2018
		Dt. 29/06/2018
<b>Explosive License</b>	Ministry of Commerce & Industry	E/SC/KL/22/136(E11283)
	- Petroleum & Explosives Safety	Dated: 07/04/2015
	Organization (PESO)	
License for quarry	Gram Panchayat Panchayath	B -3-3013-16, Dated: 02/07/2016
operations		
Lease order	Directorate of Mining and	413/2014-15/8670/M3/2014
	Geology	Dated: 26/09/2013

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

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	Noted
	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.	

#### 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	Noted
	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.	

#### Compliance:

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

- ➤ Kerala Minor Mineral Concession Rules, 2015
- ➤ Mines Act, 1952

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

#### 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.11.** 

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.

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 does not give the copy of clearance latter to anyone. The project does not have a website and it will create a company website soon.

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.

Complied

#### 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 email. The result of monitoring data is attached as **Annexure No. 12.** 

38	The details of Environmental Clearance should be prominently	Complied
	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.	

#### Compliance:

The details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order of 3 ft x 3 ft with green background and yellow letters of Times New Roman font. Same is attached as **Plate No.16.** 

39	The proponent should provide notarized affidavit (indicating the	Complied	
	number and date of Environmental Clearance proceedings) that		
	all the conditions stipulated in the EC shall be scrupulously		
	followed.		
1		í l	

An assurance in the form of affidavit was already submitted to SEIAA Kerala. The copy of the same is attached at **Annexure No. 5.** 

## **PLATES**

(Photographs of the project)



Rain Water Harvesting Pond





Avenue trees planted along the road side



Solar light in the project site





Sprinkler installed in project site



Sapling planted





Barbed metal wire fencing in the project site



Warning alarm installed in the project site





Tarred access road to the quarry site

Plate No. 9

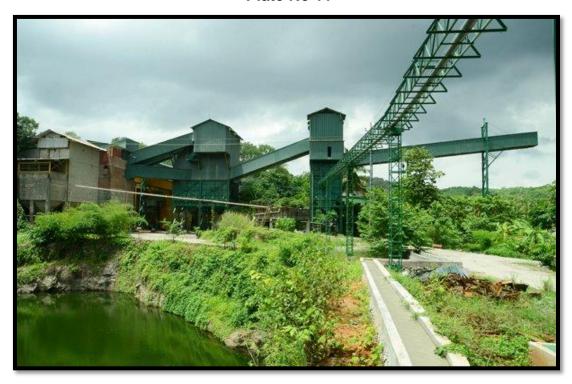


Overburden stacked in the project site.

Plate No. 10



Photograph of benches created in the quarry site



Crusher working in the project site





Labours with PPE



Drainage

Plate No. 14



A covered truck; before leaving from the project site

Plate No. 15



Magazines at isolated place in the project site



Plate No. 16

The metallic board displayed the details of EC order

Plate No. 17

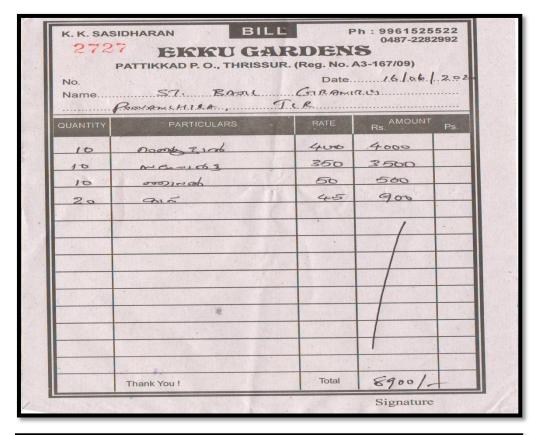


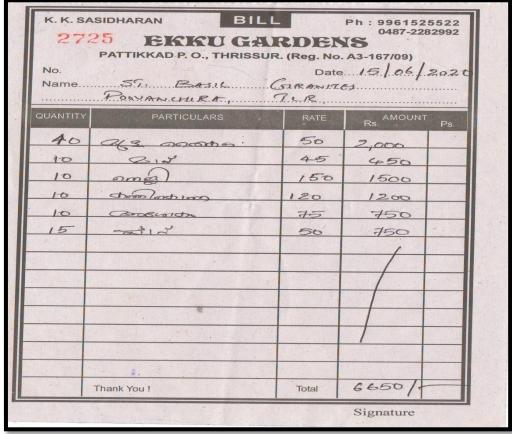


**CSR/CER Activities** 

# **ANNEXURE**

(Documents of the project)

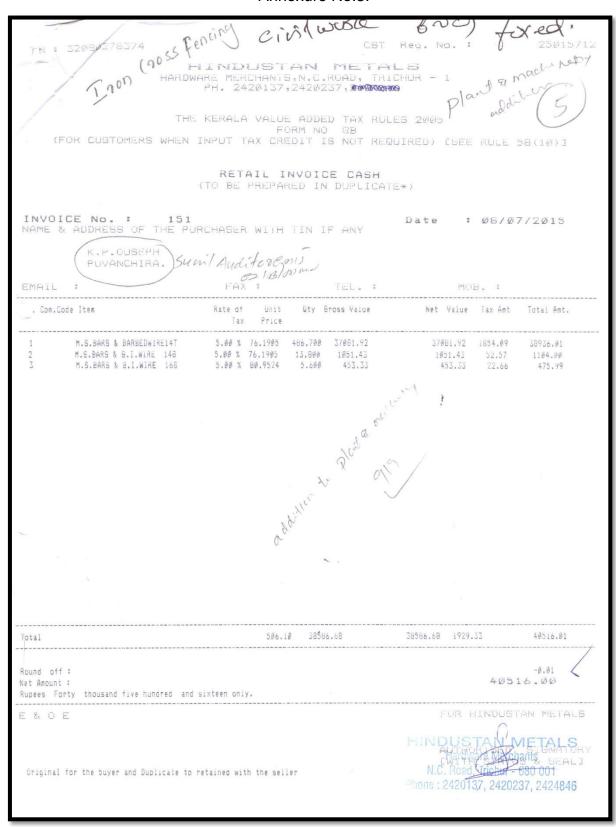




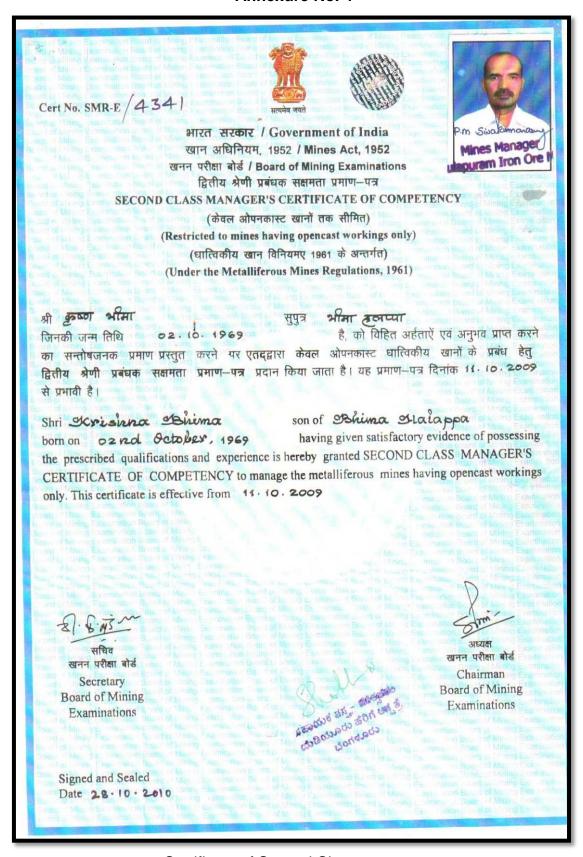
The bill of saplings purchased for eco - restoration



Bill of solar street light purchased



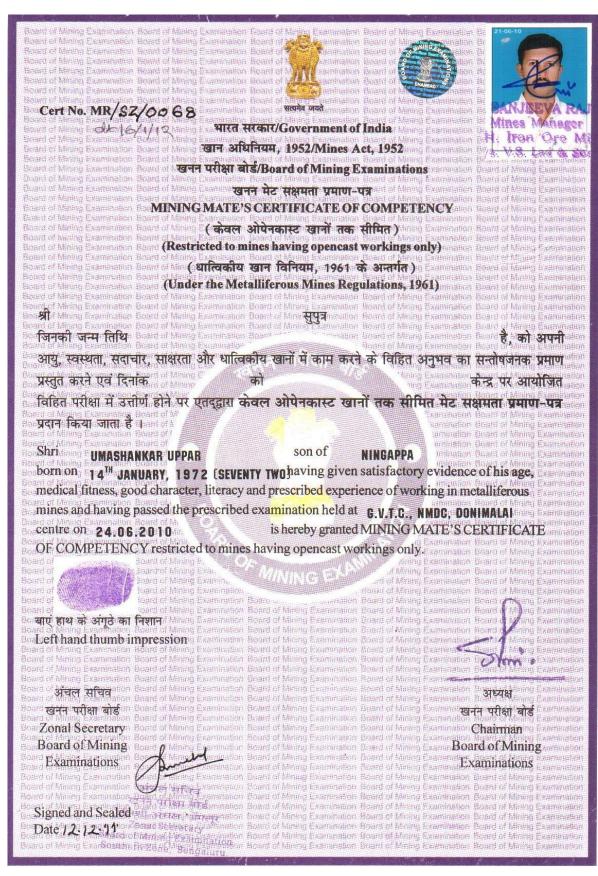
Bill of barbed metal wire Fencing



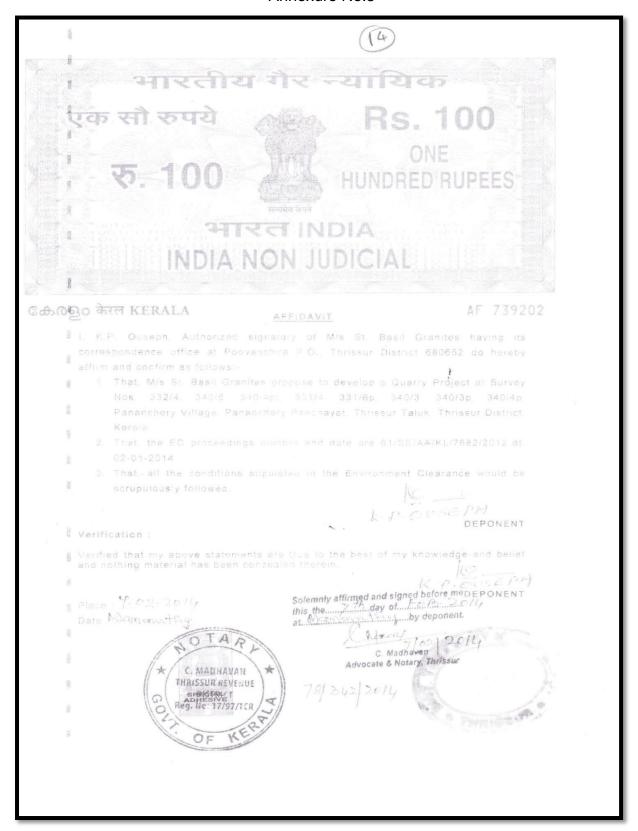
Certificate of Second Class manager



Certificate of Mining Mate



Certificate of Mining Mate



**Affidavit** 



Validity expires on 17.12.2026

# Proceedings of the State Environment Impact Assessment Authority Kerala Present: Prof. (Dr.) K.P. Joy, Member (in chair) and Sri. P.K. Mohanty IAS, Member Secretary

Sub: SEIAA Kerala – Quarry project in Survey Nos. 332/4, 340/5, 340/4pt, 331/4, 331/6p, 340/3, 340/3p and 340/4p at Pananchery Village, Pananchery Panchayath, Thrissur Taluk, Thrissur District, Kerala by M/s St. Basil Granites – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

#### Environmental Clearance

No. 61/SEIAA/KL/7682/2012

dated, Thiruvananthapuram 02-01-2014

Read:- SEIAA Kerala Minutes of the 25th meeting dt. 18-12-2013

#### ORDER

Mr. K.P. Ouseph, Authorized Signatory, M/s St. Basil Granites, vide his revised application received on 04-01-2013, has sought Environmental Clearance under EIA Notification, 2006 for a quarry project in Survey Nos. 332/4, 340/5, 340/4pt, 331/4, 331/6p, 340/3, 340/3p and 340/4p at Pananchery Village, Pananchery Panchayath, Thrissur Taluk, Thrissur District, Kerala for an area of 4.8988 hectares. The proposed quarry site is a private land and the land is possessed in the name of M/s St. Basil Granites. Forest land is not involved in the project. It is interalia, noted that the project comes under Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006The proposed project site falls within 10°34'14.55" N to 10°34'29.6596" N and 76°21'40.2541" E and 76°21'47.2566" E. The proposed project is for quarrying of 2,94,000 TPA of building granite stone from an area of 4.8988 hectares of land. The expected life of mine will be 13 years.

The proposal has been appraised by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amendments, in its 11<sup>th</sup> meeting held on 9<sup>th</sup> January 2013, 19<sup>th</sup> meeting held on 9<sup>th</sup> and 10<sup>th</sup> September 2013 and 21<sup>st</sup> meeting held on 4<sup>th</sup> November 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form – 1, questionnaire for mining projects, pre-feasibility report, Environment Management Plan and the additional clarifications furnished in response to the observations, the SEAC Kerala recommended environmental clearance to the project.

The proposed project activity involves about 100 % of the pit area for exploring granite building stone. At the end of life of mine, the reclaimed area will be suitably planted and the remaining void at lower levels of excavated pit will be utilized as water storage area. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanized method. The bench height and width proposed is 5 m. The exploitation of mineral is being done from

Environmental Clearance No: 61/SEIAA/KL/7682/2012

Page 1 of 5

Copy of EC order



#### KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/TSR/IC/993/2008

Date of issue :07/02/2018

#### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/DO/TSR/R4/442A/2018

Ref: 1. Your online application no.5545514 dated 29.06.2017.

2. Previous Consent No: PCB/DO/TSR/R3/ICO/442A/2016 dated 27.02.2016.

The 'Integrated Consent to Operate' issued as per reference above to M/s St. Basil Granites - Quarry 1,Poovanchira P.O.,Thrissur is hereby renewed up to 30/09/2020 and issued to M/s St. Basil Granites - Quarry 1,Poovanchira P.O.,Thrissur 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	Fee remitted	Rs.13260/-
2	Validity	30.09.2020

#### II. Stack Details

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

#### III. CONDITIONS

3.1 Application for renewal of consent shall be submitted online (krocmms.nic.in) three months in advance of the date of expiry of the consent. Late application will be accepted only with fine as applicable.

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

Page1

#### **Consent from PCB**

Quarry 2 (14

31.12.2023



#### KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TSR/IC/5240/14 Date of issue :01/11/2019

#### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/DO/TSR/R2/ICO/3636/2017

Ref: 1) Your online application no. 11732959 dated 28.09.2019

2) Consent No. PCB/DO/TSR/R1/ICO/3636/2019 issued on 12.04.2017 valid up to 31.12.2019

The 'Integrated Consent to Operate' issued as per reference above to M/s St. Basil Granites - Quarry 2, Poovanchira P.O. is hereby renewed up to 31/12/2023 and issued to M/s St. Basil Granites - Quarry 2, Poovanchira P.O. 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	Annual Fee	Rs 2800/-		
2	Fee remitted	Rs 12,132/-		
3	Validity	31/12/2023		

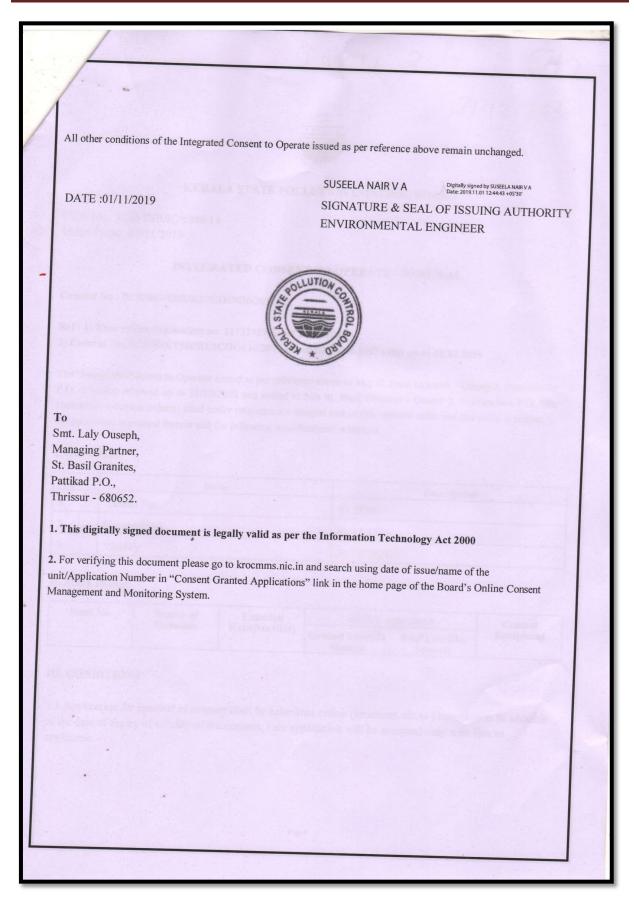
#### II. Stack Details

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

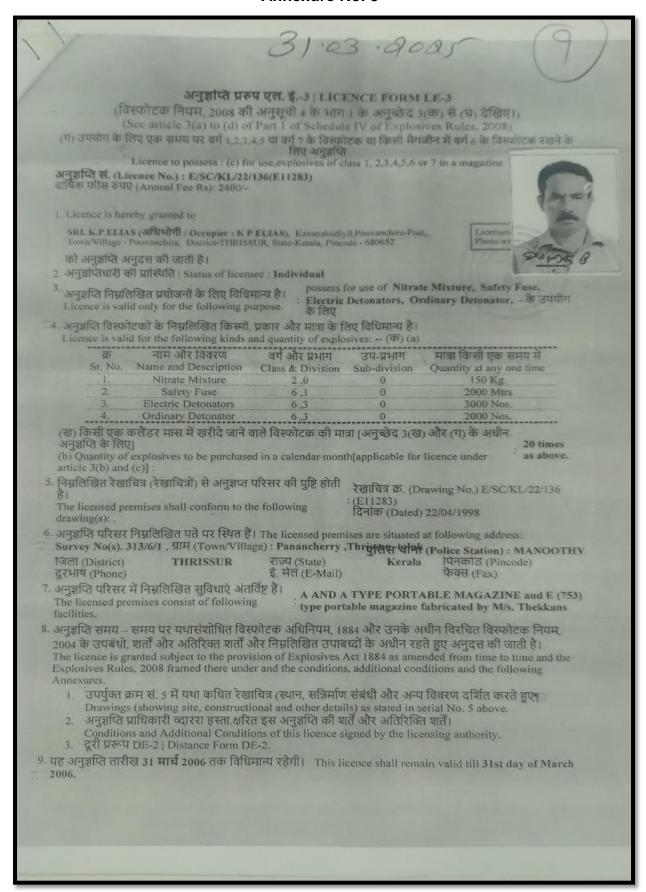
#### III. CONDITIONS

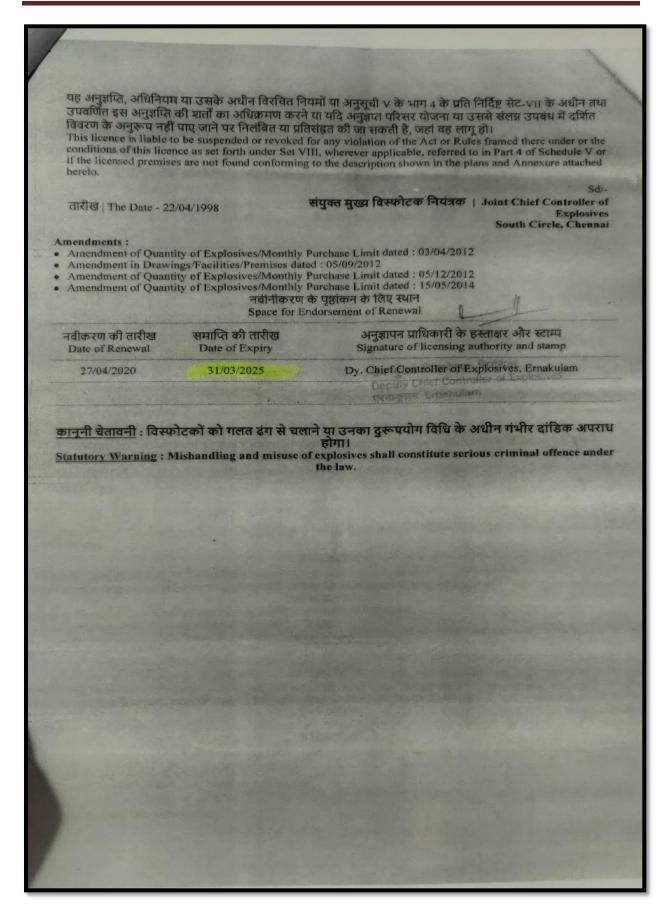
3.1 Application for renewal of consent shall be submitted online (krocmms.nic.in ) two months in advance of the date of expiry of validity of the consent. Late application will be accepted only with fine as applicable.

Page1



**Consent from PCB** 





License to possess and use of explosives



# PROCEEDINGS OF THE DIRECTOR OF MINING AND GEOLOGY

Sub: Mines and Minerals-Minor Minerals-Granite Building Stone – Renewal of Quarrying lease to M/s. St.Basil Granites, Poovanchira P.O, Thrissur-680652 sanction orders issued.

Ref: 1. Application dated 26.6.2014 from M/s. St.Basil Granites, Poovanchira P.O, Thrissur-680652

- Letters No. 1866/C2/TDO/14 from the Geologist, District Office, Thrissur Dated 16.7.14,31.7.14 & 27.8.14
- 3. Kerala Minor Mineral Concession Rules, 1967
- Order No.61/SEIAA/KL/7682/2012 dt. 2.1.2014 of Member Secretary, SEIAA & Additional Chief Secretary to Government Environment, Forest & Wild Life Departments
- 5. Order No. 634/04-05/8348/M3/04 dtd. 4.1.2005 of the DMG

#### No. 413/2014-2015/8670/M3/2014

Dated, Tvpm. 26.09.2013

#### ORDER

The quarrying lease grated vide reference 5<sup>th</sup> cited is renewed for a further period of 10 years from 10.1.2015 to quarry **Granite Building Stone** over an area of **2.4172** hectares of **Private** land comprised in **Sy.Nos.332/4**, **340/4pt**, **340/5** of **Panachery** Village, **Thrissur** Taluk, **Thrissur** District under the Kerala Minor Mineral Concession Rules, 1967 and as per the Survey map issued by the **Tahsildar**, **Thrissur** and submitted by the applicant subject to the under mentioned conditions.

- Royalty is payable to Government as per Rule 29(1)(c) of the Kerala Minor Mineral Concession Rules, 1967 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.
- Dead rent is realizable under 29(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 29(1)(e) of the said rules will be equal to the land revenue
  assessed by the Revenue Department subject to revision from time to time on the basis of
  the land revenue.
- 4. The lessee shall execute a quarrying lease deed on or after 10.1.2015 but within 3 months from 10.1.2015, as the period for which quarrying lease is renewed shall be the date on which the deed is executed.
- 5. The lessee extracted & removed 289920M³ of Granite Building Stone as on 16.7.14 as per Form 2 and Lr.No. 1866/C2/TDO/2014 dt. 31.7.2014 of the Geologist, District Office, Thrissur. If the quantity measured in the quarry after the expiry of the original grant of lease vide reference 5<sup>th</sup> cited does not tally with the quantity as per the account furnished by the

2

Lease order form Director of Mining and Geology

10,000,000			1.000			
പാണഞ്ചേരി ഗ്രാമപഞ്ചായത്ത്						
പട്ടിക്കാട് പ	ി ഓ ; തൃശ്ശൂര	ർ ജില്ല; കേ	ംരളം			
Phone- +91 487 2282051, 2282057	email- pa	nancherygram	apanchayat@gn	nail.com		
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	ലാലി ഒസേര	ഫ്				
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മേൽവിലാസവും	സെന്റ്ബേസിൽ ഗ്രാനൈറ്റ്					
	പുവ്വൻചിറ(പി.ഒ)					
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ക്ഷാറി നടത	തുന്നതിന്				
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ലൈസൻസ് ഫീസ്			12000			
99년(10(10(10 전 1(10	119060110655 തിയ്യതി <sup>25/02/2020</sup>					
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ	സാനിറ്ററി സർട്ടിഫിക്കറ്റ് നമ്പര്C4- 406/19 dated 26/04/2011 issued by PHC Vellanikkara Valid upto 26/04/2020, PCB NO.PCB/TSR/IC/5240/14 valid upto 31/12/2023			o 26/04/2020, PCB		
(നമ്പര്, തിയ്യതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാനം	മേൽ സർട്ടിം കഴിയുന്നമുൾ	ഥിക്കറ്റുകള റക്ക് ലൈന	ളുടെ കാലാറ സൻസ് റദ്ദാവ	വധി ധുന്നതാണ്		
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**License from Gram Panchayat** 



Advertisement in two News paper regarding issue of EC order



#### **TEST REPORT**

Test Report No: TC540220000000222F	Date: 01.06.2020	Page 1 of 1

	CUSTOM	ER DETAILS		
		M/s St. Basil Granites- Q	uarry	
Customer Details	Name & Address	Poovanchira P O		
		Thrissur District		
	Re -Survey No	332/4,332/5,340/4pt,331/4,331/6p,340/3,340/ 340/4p		
	Village	Pananchery		
	Taluk	Thrissur		
	District	Thrissur		
	State	Kerala		
Customer Reference		Test Request form dated 2	25.05.2020	
=	SAMPL	E DETAILS		
Source of Sample	Ambient Air	Sample Code	EN/20050089	
Location of Monitoring	South side boundary	Sampled By	Laboratory	
Date of Monitoring	25.05.2020	Test Started On	26.05.2020	
Sample Received On	26.05.2020	Test Completed On	01.06.2020	
Humidity	58%	Sampling Procedure	IS 5182 Part V & XIV	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	μg/m³	51.2	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	μg/m³	20.4	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	μg/m³	< 2.00	80.0
04	Nitrogen dioxide ( NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	μg/m³	< 2.00	80.0

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

For and on behalf of Standards Environmental & Analytical Laboratories

uthorized Signatory Laiju P. N. Laboratory Head

Standard<sup>s</sup> Environmental & Analytical Laboratories

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

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Air



#### TEST REPORT

Test Report No: TC540220000000223F	Date: 01.06.2020	Page 1 of 1
		rage rorr

	CUSTO	OMER DETAILS
	Name & Address	M/s St. Basil Granites- Quarry Poovanchira P O Thrissur District
Customer Details	Re -Survey No	332/4,332/5,340/4pt,331/4,331/6p,340/3,340/3p, 340/4p
	Village	Pananchery
	Taluk	Thrissur
	District	Thrissur
	State	Kerala
Customer Reference		Test Request Form dated 25.05.2020
	SAM	PLE DETAILS
Source of Sample		Ambient Sound Level
Sample Code Location of Monitoring		EN/20050090
		South side Boundary
Date of Monitoring		25.05.2020
Method		IS 9989:1981 RA:2008

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	38.6 dB (A)	23.00 Hrs	34.6 dB (A)
07.00 Hrs	41.4 dB (A)	00.00 Hrs	37.1 dB (A)
08.00 Hrs	45.8 dB (A)	01.00 Hrs	37.8 dB (A)
09.00 Hrs	49.4 dB (A)	02.00 Hrs	37.5 dB (A)
10.00 Hrs	51.7 dB (A)	03.00 Hrs	38.2 dB (A)
11.00 Hrs	54.9 dB (A)	04.00 Hrs	37.1 dB (A)
12.00 Hrs	52.1 dB (A)	05.00 Hrs	38.9 dB (A)
13.00 Hrs	51.3 dB (A)	9000 42	
14.00 Hrs	51.7 dB (A)	RESULTS	
15.00 Hrs	52.1 dB (A)		
16.00 Hrs	53.3 dB (A)		
17.00 Hrs	53.7 dB (A)	Noise Level (Leq) Daytime	50.2 dB (A)
18.00 Hrs	48.2 dB (A)		=
19.00 Hrs	44.6 dB (A)		
20.00 Hrs	40.6 dB (A)		
21.00 Hrs	40.1 dB (A)	Noise Level (Leq) Nighttime	37.5 dB (A)
22.00 Hrs	37.4 dB (A)	-	

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

For and on behalf of Standards Environmental & Analytical Laborat

Laiju P. N. Laboratory Head

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

Result of Noise



#### **TEST REPORT**

Test Report No: TC540220000000224F	Date: 01.06.2020	Page 1 of 1

	CUSTOME	ER DETAILS					
	Name & Address	M/s St. Basil Granites- Quarry Poovanchira P O Thrissur District					
Customer Details	Re -Survey No	332/4,332/5,340/4pt,331/4,331/6p,340/3,340/3p, 340/4p					
	Village	Pananchery					
	Taluk	Thrissur	Thrissur				
	District	Thrissur					
	State	Kerala					
Customer Reference	stomer Reference		Test Request form dated 26.05.2020				
SAMPLE DETAILS							
Sample Code	WT/20050034	Sample Received On	26.05.2020				
Sample Name	Water	Sampling Procedure					
Sample Description	Open well	Sampling Location					
Identification By Customer		Sample Condition	Good				
Sampled On	26.05.2020	Test Started On 27.05.2020					
Sampled By	Customer	Test Completed On	01.06.2020				

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 – 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:1983 RA 2017		Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.10	1.00 (Max)
04	pН	IS 3025 Part 11:1983 RA 2017		6.94	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2013	μS/cm	104	
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	66.0	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2014	mg/L	28.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2014	mg/L	8.00	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2014	mg/L	1.95	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2014	mg/L	11.9	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2014	mg/L	17.8	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2014	mg/L	0.10	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2014	mg/L	< 1.00	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

Standards Environmental & Analytical Laboratories

uthorized Signatory

Laiju P. N. Salini T. S. Microbiologist Laboratory Head

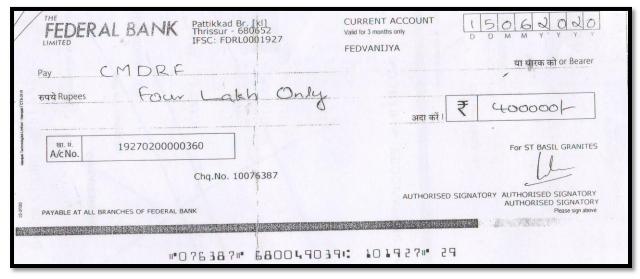
Standard<sup>s</sup> Environmental & Analytical Laboratories

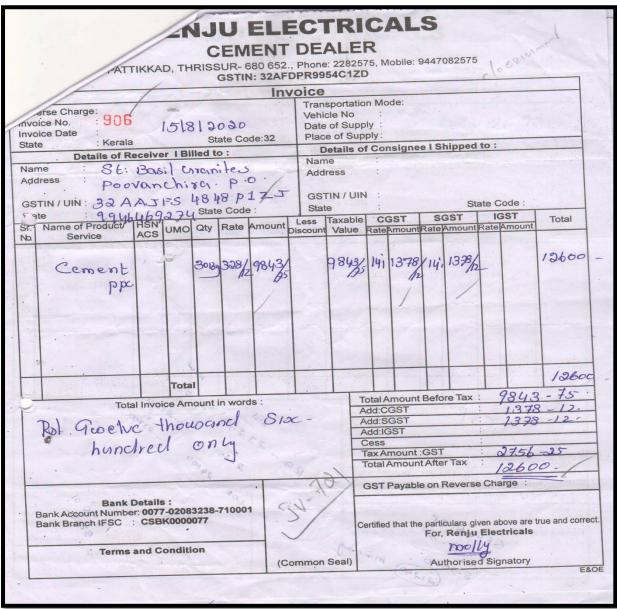
Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB

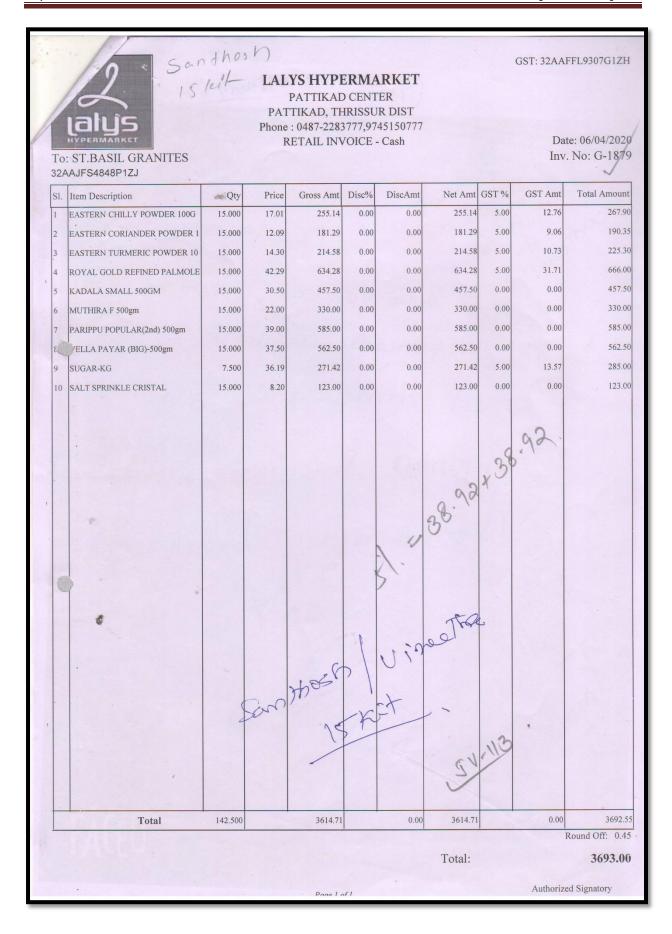
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of water







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**CSR/CER Receipts**