## M/S ST. BASIL GRANITES

## **COMPUANCE REPORT**

OCTOBER 2020 - MARCH 2021

# THRISSUR DISTRICT KERALA



Dt. 12-04-2021

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 - Second 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 02/01/2014 by State Environmental Impact Assessment Authority, Kerala. The compliance report of Second half (October 2020 to March 2021)) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

The Real Graded Sand

Yours respectfully,

For

M/s St. Basil Granites

FOR ST: BASIL GRANITES.

LALY OUSEPH. Managing Partner.

Copy to: The Chairman & The Member Secretary

State Environment Impact Assessment Authority (SEIAA) 'Devi Kripa', Pallimukku, Pettah P.O., Thiruvananthapuram, Kerala - 695 024.

Encl: - As Above

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

GSTIN 32AAJFS4848P1ZJ

mail@stbasilgranites.com www.stbasilgranites.com Tel.:0487-2282420, 2282820,9846346690,9946469274,9846489097

#### **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

## **INDEX**

SI. No.	Particulars	Page No.
1.	Introduction	7
2.	Salient features	8
3.	Compliance Report – Specific conditions – Part A	09
4.	Compliance Report – General conditions – Part B	11
5.	Plates	28
6.	Annexure	38

## **LIST OF TABLES**

SI. No.	Particulars	Page No.
1.	Environmental Monitoring Cell (EMC)	12
2.	2. Details of the vegetation existing along the road side	
3.	Details of saplings planted as part of eco – restoration	14
4.	Details of CSR Activities	16
5.	Details of statutory approvals	23

## **LIST OF PLATES**

Plate	Particulars	Page No.
No.		
1	Photograph showing fencing for Rain Water Harvesting Pond	29
2	Photograph of the avenue trees planted along the road side	29
3.	Photograph of Solar lights	30
4.	Photograph showing the sprinkler installed in the project site	30
5.	Photograph of concurrent Eco restoration	31
6.	Photograph showing Barbed Metal wire fencing in the project site.	31
7.	Photograph showing warning alarm installed in the project site	32
8.	Photographs showing the tarred access road to the project site	32
9.	Photograph showing the stacked overburden / top soil.	33
10.	Photographs showing the benches system in the quarry site.	33
11.	Photograph showing the crusher unit in the project site.	34
12.	Labours with PPE	34
13.	Photograph of Draining	35
14.	Photographs showing the covered trucks during transportation of minerals.	35
15.	Photograph showing the magazine (Explosive storage area)	36
16.	Photograph of metallic board for displaying the details of EC order.	36
17	Photograph of CSR/CER activities	37

## **LIST OF ANNEXURES**

Annexure No.	Particulars	Page No.
1.	Copy of the invoice on the expenses incurred in purchase of plants for eco-restoration	39
2.	Copy of the receipts of the expenses of Solar street lights	40
3.	Copy of the receipts of the expenses of fencing	41
4.	Copy of the certificate of Mines manager and Mining mate	42
5.	Copy of the affidavit	45
6.	Copy of EC order	46
7.	Copy of the "Consent to Operate" from Kerala State Pollution Control Board (Renewal)	47
8.	Copy of Explosive License issued by the Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	51
9	Copy of lease order form Director of Mining and Geology	53
10.	Copy of License for quarry operations from <i>Gram</i> Panchayath	54
11.	Copy of advertisement in newspaper	55
12.	Monitoring results of air, Water and Noise	56
13.	Copy of CSR/CER receipts	60

#### **INTRODUCTION**

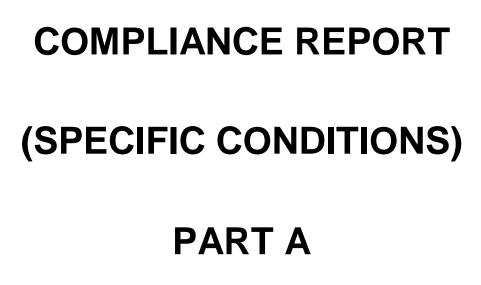
Quarry project of M/s St. Basil Granites is situated at Sy. No. 332/4, 340/5, 340/4 pt, 331/4, 331/6 p, 340/3,340/3p and 340/4p at Pananchery village and Panchayath, Thrissur Taluk, Thrissur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) State Environmental Impact Assessment Authority 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 second half to the specific conditions and general conditions of the Environmental Clearance for the period of October 2020 - March 2021 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°21'40.2541" to 76°21'40.2541"(E). The guarry 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.



#### **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	

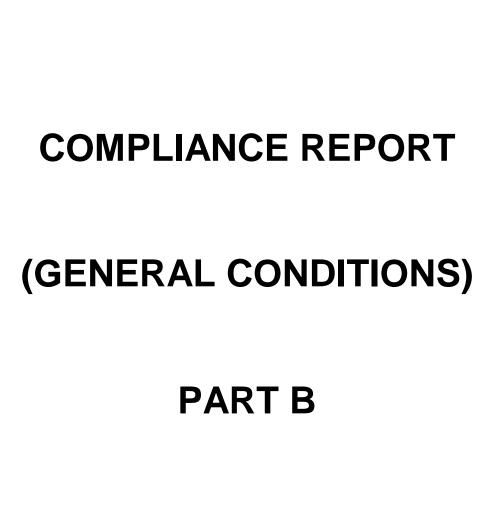
#### Compliance:

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
03 Fencing and retaining wall should be provided as safety Complementary measure to avoid any untoward incident.											

#### Compliance:

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



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

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

#### Compliance:

T In order to collect rainwater during the time of monsoon season all runoff from the quarry site is collected at the mined out pit. The project proponent has developed rain water harvesting ponds in the project site. 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	Environment	Monitoring	Cell	(EMC)	as	agreed	under	the	Complied
	affidavit filed	by the prop	poner	nt shoul	d be	e formed	and n	nade	
	functional.								

#### Compliance:

To monitor and evaluate the works done under the conditions stipulated in the EC order, the project proponent formed an Environmental Monitoring Cell (EMC) with Mr. K P Ouseph as head of the monitoring cell. The EMC meeting convenes regularly for a sustainable environment. The details of the monitoring cell are given below in the **Table No.1.** The NABET accredited consultant helps the company to upkeep the environment friendly mining

TABLE 1 - ENVIRONMENTAL MONITORING CELL (EMC)

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.	Name of the Environment Consultant	M/s Environmental Engineers &		
		Consultants Pvt. Ltd.		

Ī	03	Suitable avenue trees should be planted along either side of the   Complied				
		tarred road and open parking areas, if any, inclusive of				
		approach road and internal roads.				

#### Compliance:

To enrich vegetation and prevent air pollution, the proponent has planted various 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 in the project area. 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:

To prevent dust emission, sprinklers are installed in the project site. In order to reduce dust emissions from the road while transportation of materials, the project proponent is spraying water on roads during summer season at regular intervals. 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			
	the own cost of the project proponent.	Complied		

#### Compliance:

As part of eco restoration, the project proponent has started to plant various saplings within the project area.. The mine closure plan will be done at own cost of project proponent as agreed in the proposal.. The 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.	

#### Compliance:

The project proponent 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 proponent 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.

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

Sectors	Date of Activity	Beneficiaries	Amount spent in Rs.
Infrastructure Development	20.02.2021	Rajesh,Panikkath House,P.O.Poovanchira,Thrissur	4,88,000
MEdical	19.02.2021	Elsy,	12,000
	23.02.2021	Shaju	18,000
Skill	20.02.2021	DYFI - Football mela	7,000
Development			
	21.02.2021	Udhayathaarangam Arts Sports & Welfare club	18,800
	25.02.2021	Winners Club,Poovanchira	37000
Education	25.02.2021	Rincy Cheenat, City Garden,	10,000
		Pattikkad	
	Tota	İ	5,90,800

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:

As part of demarcation of lease area and to prevent falling of animals/human being/dumping of garbage etc, the project proponent has erected barbed metal wire fencing around the mining area with height of 4 ft before the starting of mining. All the

boundary indicators are protected at all times and clearly visible at any time in a notificable way. 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:

As per the stipulation of Explosive department, the project proponent has installed warning alarms (Siren) in the quarry site. This siren is blown before blasting and after blasting. The blasting timings are displayed in the prominent area by way of caution board. 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			
	guidelines.			

#### Compliance:

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

13	Blas	sting should b	e do	one in a cont	rolled manner	as	specif	ied by	Complied
	the	regulations	of	explosives	department	or	any	other	
	cond	cerned agenc	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	Α	licensed	person	should	supervise/control	the	blasting	Complied
	ор	erations.						

#### 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 the quarry shall be tarred to contain dust	Complied
	emissions that may arise during transportation of materials.	

#### Compliance:

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:

The overburden and topsoil need to extract during the time of mining, these natural resources are stored at designated place within the project site. This will be used to restore the exploited area in future. 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 activity in the project site is progressing by creating benches of 5m width and 5m height. The formation of benches is under the direction and supervision of competent person. **Plate No.10** showing the work progressing in the quarry area.

1	8	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:

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

20	No mining operations should be carried out at places having a	Not
	slope greater than 45°.	applicable

#### Compliance:

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

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.

2	22	The workers on the site should be provided with the required	Complied
		protective equipments such as ear muffs, helmet, etc.	

#### Compliance:

To ensure the safety of workers in working site the project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, gloves, etc. 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:

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

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

#### Compliance:

A portion of spent oil is being used as lubricant in the project site. The excess used oil sold only to the approved recyclers

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

#### Compliance:

As part of safety, 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 is 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:

To reduce the adverse impact on community life, 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	ında	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.		

#### Compliance:

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

Il other statutory clearances should have been obtained, as Complied	
pplicable, by project proponents from the respective	
ompetent authorities including that for blasting and storage of	
xplosives.	
֡	oplicable, by project proponents from the respective ompetent authorities including that for blasting and storage of

#### 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.5**. 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 Statutory approval	Name of the Statutory authority
Environmental Clearance order	State Environmental Impact Assessment
	Authority, Kerala
"Consent to Operate"	Kerala State Pollution Control Board
(Renewal)	
Explosive License	Ministry of Commerce & Industry – Petroleum &
	Explosives Safety Organization (PESO)

License for quarry operations	Gram Panchayat Panchayath
Lease order	Directorate of Mining and Geology

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.	

#### 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	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:

To enhance environmental sustainability and conserve natural resources, the project proponent is willing to add all possible additional safe guard measures subsequently if the authority found necessary.

34	The stipulations by Statutory Authorities under different Acts Note	d
	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.

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</u>
	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.** 

36	A copy of the clearance letter shall be sent by the proponent to	Complied
	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.			

#### Compliance:

As per the condition stipulated in the Environmental Clearance order, a copy of the environmental clearance letter was submitted to Grama Panchayat office. There were no suggestions/representations received while processing the proposal.

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 detail of the Environmental Clearance has display on metallic board in the project site. The metallic board installed as specified in the conditions of Environmental Clearance order. 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.	

## Compliance:

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



(Photographs of the project)

Plate No. 1



Rain Water Harvesting Pond

Plate No. 2



Avenue trees planted along the road side

## Plate No. 3



Solar light in the project site





Sprinkler installed in project site

Plate No.5



Sapling planted

Plate No. 6



Barbed metal wire fencing in the project site

Plate No. 7



Warning alarm installed in the project site

Plate No. 8



Tarred access road to the quarry site

Plate No. 9



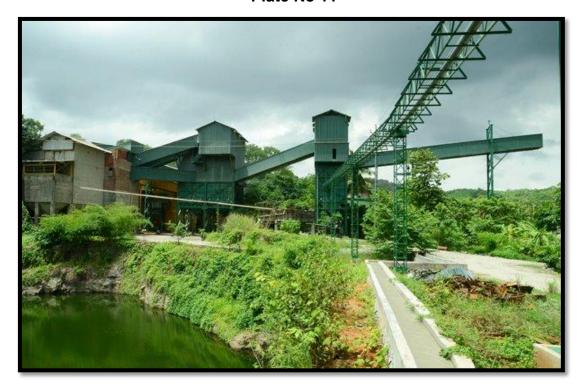
Overburden stacked in the project site.

Plate No. 10



Photograph of benches created in the quarry site

Plate No 11



Crusher working in the project site

Plate No. 12



Labours with PPE

Plate No 13



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

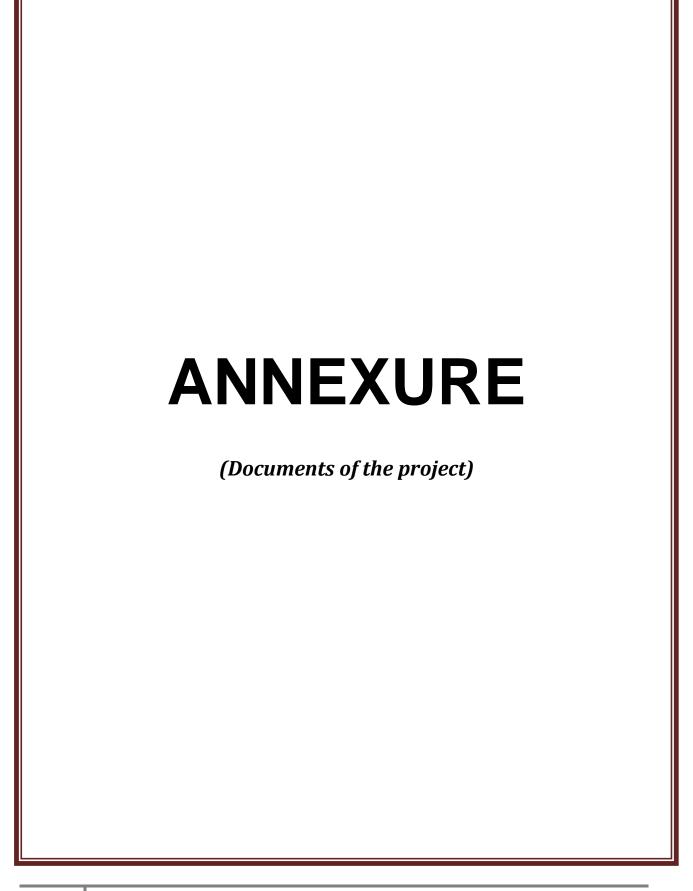
Plate No. 17

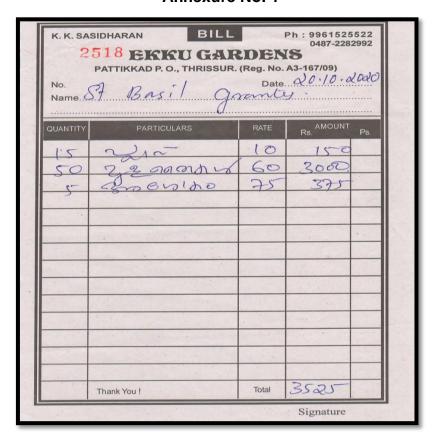


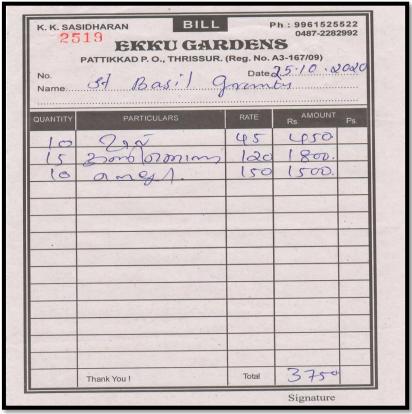




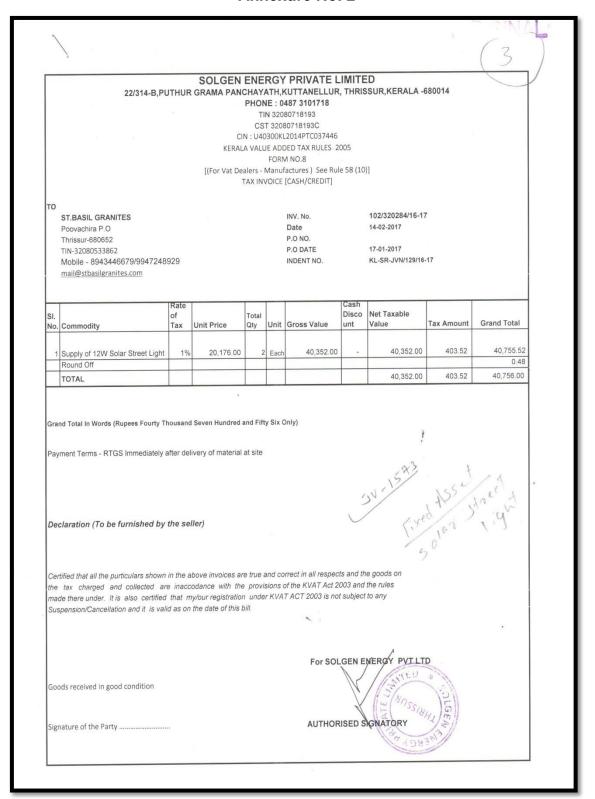
**CSR/CER Activities** 



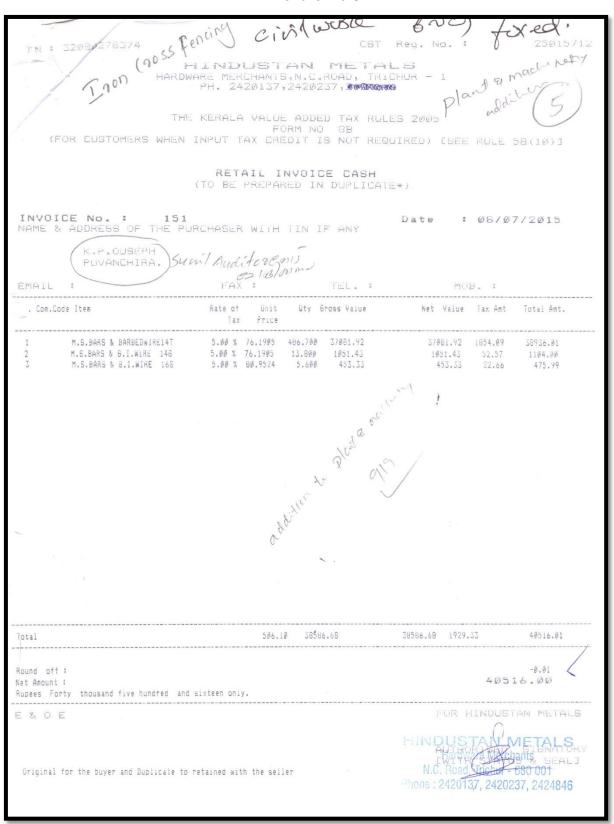




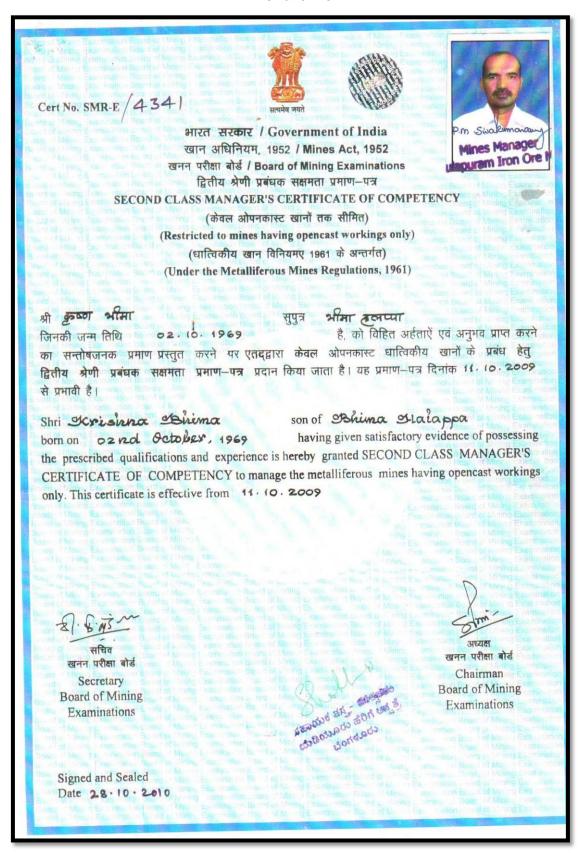
The bill of saplings purchased for eco - restoration



Bill of solar street light purchased



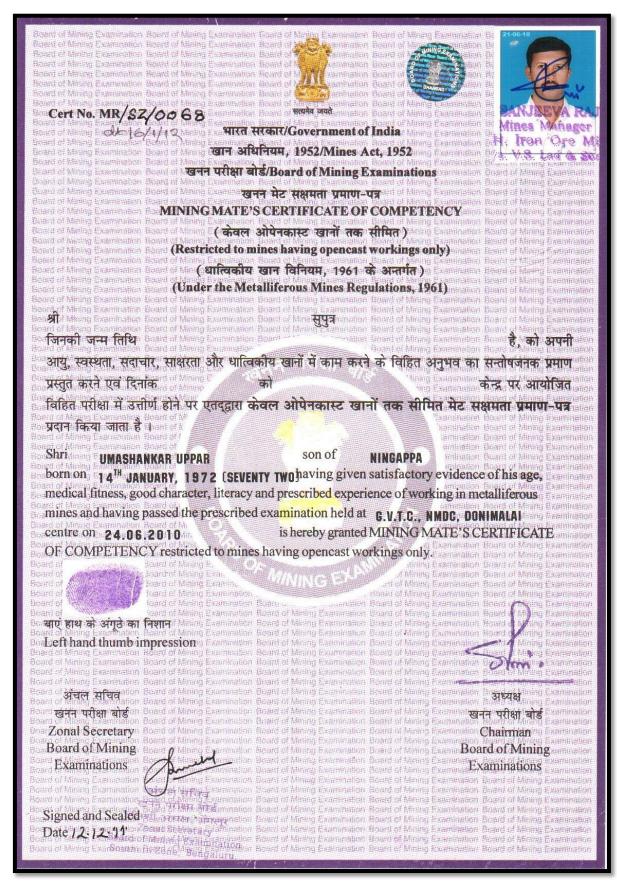
Bill of barbed metal wire Fencing



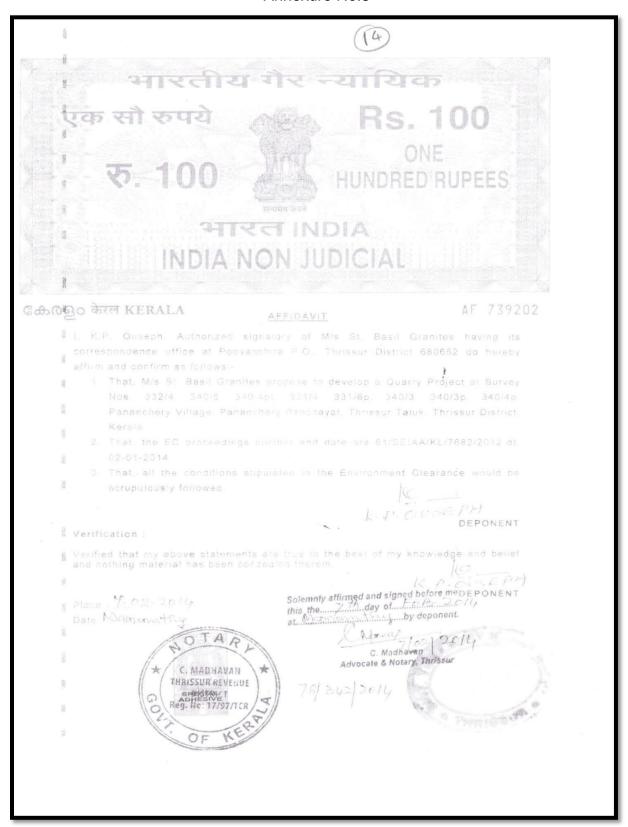
Certificate of Second Class manager



Certificate of Mining Mate



Certificate of Mining Mate



**Affidavit** 

#### Annexure No. 6



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 11th meeting held on 9th January 2013, 19th 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

#### Annexure No. 7



# KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/TSR/ICO/R15TRI785565/2020

Date of issue :13/08/2020

# INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/DO/TSR/R5/442A/2020

Ref: 1) Your online application no. 13397763 dated 20.06.2020

2) Consent No. PCB/DO/TSR/R4/442A/2018 issued on 07/02/2018 valid up to 30/09/2020

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 30/09/2025 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	Annual fee	Rs 5800/-
2	Fee remitted	Rs 33,025/-

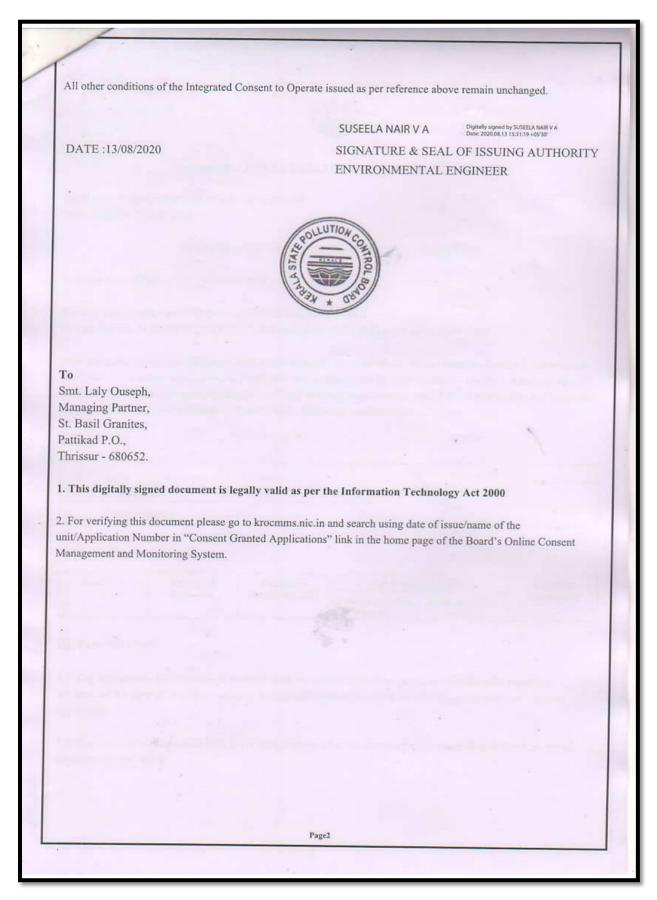
## II. Stack Details

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

#### III. CONDITIONS

- 3.1 The application for renewal of consent shall be submitted online (krocmms.nic.in) two months in advance of the date of expiry of validity of consent. Late application will be accepted only with fine as applicable.
- 3.2 This consent will be valid only for a period when all other statutory clearances from other concerned departments are valid.

Page1



#### **Consent from PCB**



#### 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

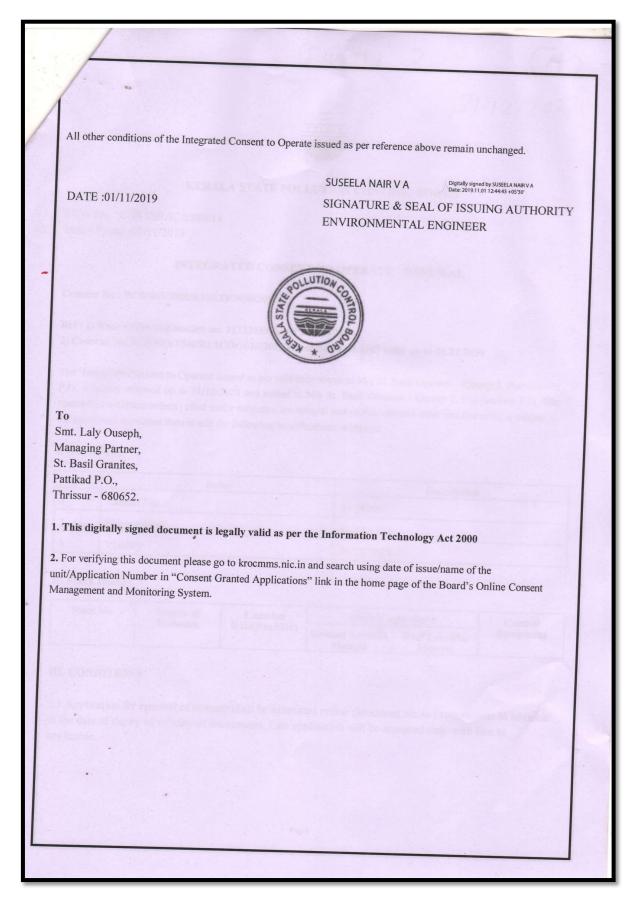
#### II. Stack Details

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

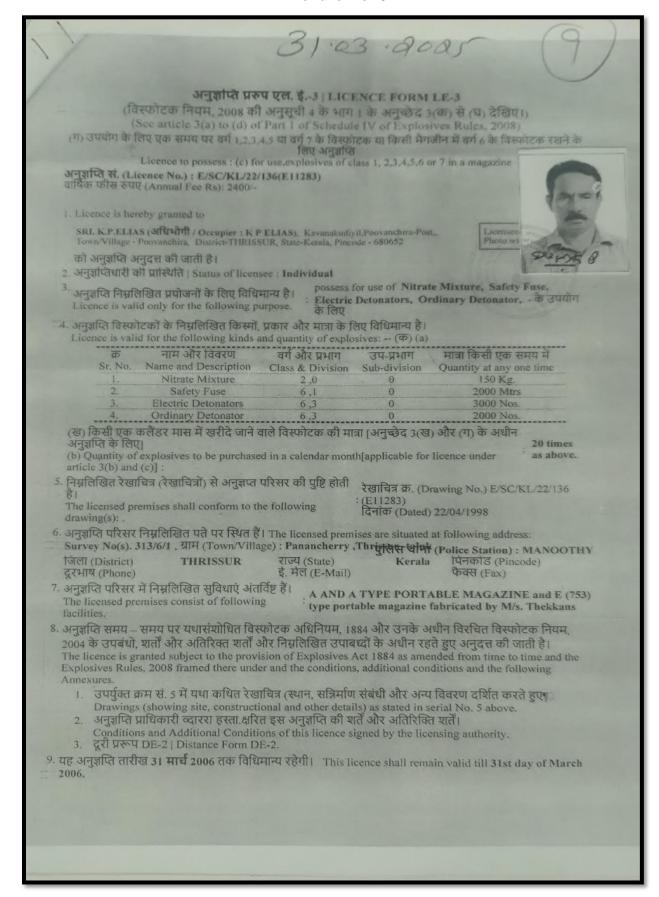
#### III. CONDITIONS

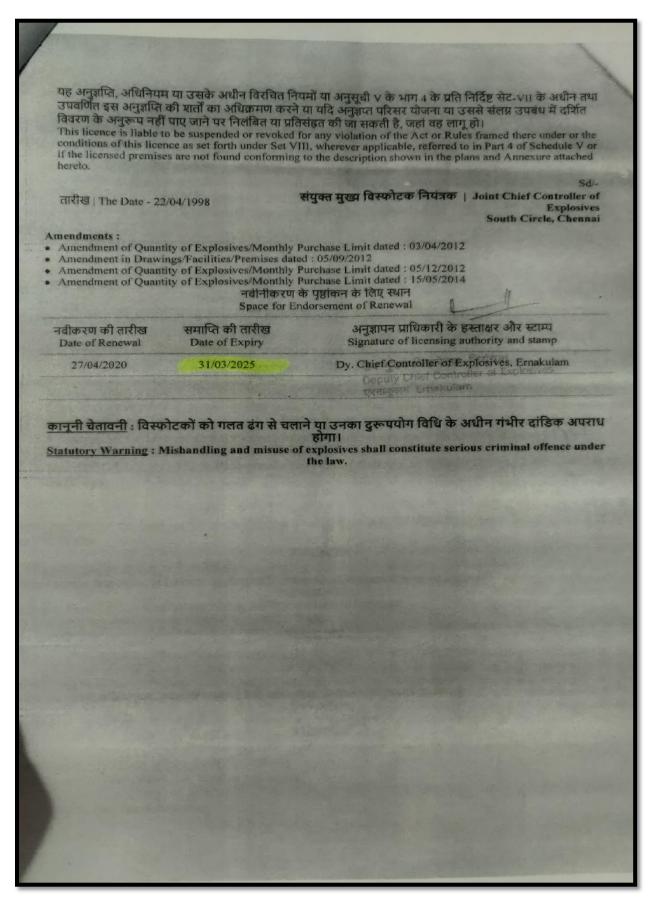
3.1 Application for renewal of consent shall be submitted online (krocmms.nic.in ) two months in advance of the date of expiry of validity of the consent. Late application will be accepted only with fine as applicable.

Page1



**Consent from PCB** 





License to possess and use of explosives

#### Annexure No. 9



## 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
  - 2. 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 5th 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.
- 2. Dead rent is realizable under 29(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- 3 Surface rent realizable under 29(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- 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.
- 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 5th cited does not tally with the quantity as per the account furnished by the



Lease order form Director of Mining and Geology

പാണഞ്ചേരി ഗ്രാമപഞ്ചായത്ത്							
പട്ടിക്കാട് പി ഓ ; തൃശ്ശൂർ ജില്ല; കേരളം  Phone- +91 487 2282051, 2282057 email- panancherygramapanchayat@gmail.com							
ഫയൽ നമ്പർA4 എ4-1786	Cilian Jan	NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF T	ൻസ് നമ്പ	170 /2019-20			
1994 ലെ കേരള പഞ്ചായത്ത് ര അനുബന്ധ ചട്ടങ്ങളും പ്രം വ്യാപാരങ്ങൾക്കും, സംരംഭക(	കാരമുള്ള വ്യൂറ	ലെ13) 232, വസായങ ൾക്കാം, <i>മ</i>	233,234,254 എ ദൾക്കും ഫാം	PRAD PRAD MANAGEMENT ARV			
	ലാലി ഒസേഹ	วั					
ലൈസൻസ് ഉടമസ്ഥന്റെ പേരും മേൽവിലാസവും	മാനേജിങ്ങ് പ	വാര്ട്ലർ,					
WELLOW DIEDVIOLES	സെന്റ്ബേസിൽ ഗ്രാനൈറ്റ്						
	പുവ്വൻചിറ(പി.ഒ)						
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ക്വാറി നടത്ത	ുന്നതിന്					
വാർഡ് നമ്പരും കെട്ടിടത്തിന്റെ നമ്പരും	6			303			
സ്ഥാപനത്തിന്റെ പേര്,സ്ഥല നാമം	സെന്റ് നേ ഗ്രാദെ	ചസിൽ നെറ്റ്		പൂവ്വൻചിറ			
ലൈസൻസിന്റെ കാലാവധി	01/04/2020	മുതൽ	31/03/2023	വരെ			
ലൈസൻസ് ഫീസ്			12000				
SOCIAL COLOR OF THE COLOR OF TH	119060110655 തിയ്യതി <sup>25/02/2020</sup>						
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ	സാനിറ്ററി സർട്ടിഫിക്കറ്റ് ——issued by PHC Vellanikk NO.PCB/TSR/IC/524		ikkara Valid upt	o 26/04/2020, PCB -			
ന്ന്വര്, തീയ്യതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാനം	മേൽ സർട്ടിഫ കഴിയുന്നമുറ	വിക്കറ്റുക ക്ക് ലൈഗ	ളുടെ കാലാറ സൻസ് റദ്ദാവ	പധി ധുന്നതാണ്			
ഓഫീസ് മുദ്ര	J.	0	mods K	•			
nted on22/04/202001:15 PM	സെക്ര	ടവ, പാം	aparticular programme and the second programme of the second	മ പഞ്ചായത്ത് r\Desktop\licence 20-21 NEW			

**License from Gram Panchayat** 



Advertisement in two News paper regarding issue of EC order

#### Annexure No. 12



# NABL(TC-5402)

#### TEST REPORT

ULR No: TC540220000003716F	Date: 07.12.2020	Page 1 of 1	
ODK 110. 100 10220000001101	200001 0112414040		

	CUSTOMER DETAILS	
Customer Name &	M/s St. Basil Granites- Quarry	
Address	Poovanchira P O	
	Thrissur District	
Customer Reference	Test Request dt 01.12.2020	

	SAMPLE D	ETAILS	
Product Category	Atmospheric Pollution	Sample Code	EN20120016
Sample Name	Ambient Air	Sample Received on	02.12.2020
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	03.12.2020
Sampled by	Lab Authorized Sampler	Test Completed on	05.12.2020
	DETAILS OF	SAMPLING	
Sampling Location	Project Site South Side boundary	Date of Sampling	01.12.2020
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	68%
	SAMPLING SIT	TE DETAILS	
Re -Survey No	332/4,332/5,340/4pt,331/4,	331/6p,340/3,340/3p,340	0/4p
Village	Pananchery	Taluk	Thrissur
District	Thrissur	State	Kerala

TEST RESULTS - CHEMICAL					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ Standards
1	Particulate Matter, PM <sub>10</sub>	IS 5182 (Part 23):2006	μg/m³	49.9	Max 100
2	Particulate Matter, PM <sub>2.5</sub>	EPA 40 CFR (Part 50) Appendix – L	μg/m³	24.7	Max 60
3	Sulphur Dioxide as SO <sub>2</sub>	IS 5182 (Part 2): 2001 RA 2017	μg/m³	< 2.00	Max 80
٠ 4	Oxides of Nitrogen as NO <sub>2</sub>	IS 5182 (Part 6): 2006 RA 2017	μg/m³	< 2.00	Max 80

Remarks:

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

Shency Joy
Dy. TM Chemical

List of the state 
Laboratory Head

Checked by:

Authorized Signatory

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

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<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

LUD No.TC540220000003717F	Date: 07.12.2020	Page 1 of 1	

	CUSTOMER DETAILS	
Customer Name &	M/s St. Basil Granites- Quarry	
Address	Poovanchira P O	
	Thrissur District	
Customer Reference	Test Request dt 01.12.2020	

	DETAILS OF	MONITORING	
Product Category	Atmospheric Pollution	Sample Code	EN20120017
Sample Name	Ambient Noise	Monitoring Commenced on	01.12.2020 / 06:00
Monitoring Location	Project Site South side Boundary	Monitoring Completed on	02.12.2020 / 06:00
Test Method	IS 9989:1981 RA:2008	Monitored by	Mr. Rahul Lab Authorized Samples
	MONITORIN	G SITE DETAILS	
Re -Survey No	332/4,332/5,340/4pt,33	31/4,331/6p,340/3,340/3p, 34	40/4p
Village	Pananchery	Taluk	Thrissur
District	Thrissur	State	Kerala

MONITORING RESULTS - Leq						
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A	
06:00	37.9	14:00	50.8	22:00	.36.8	
07:00	40.7	15:00	51.2	23:00	33.9	
08:00	45.0	16:00	52.4	24:00	36.3	
	48.5	17:00	52.8	01:00	37.0	
09:00	50.8	18:00	47.3	02:00	36.6	
10:00	54.0	19:00	43.8	03:00	37.3	
11:00	10 1010	20:00	39.9	04:00	36.3	
12:00	51.2	21:00	39.4	05:00	38.0	

	TEST RESULTS - CHEMIC	AL	
S1.	PARAMETERS	UNIT	RESULT
No.	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.3
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	36.7

Remarks:

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

Dy. TM Chemical

Laboratory Head

Checked by:

Authorized Signatory

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

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<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

ULR No: TC540220000003718F	Date: 07.12.2020	Page 1 of 2

	CUST	OMER DETAILS	
Customer Name &	M/s St. Basil Granit	es- Quarry	
Address Poovanchira P O, Thrissur District			
Customer Reference	Test Request dt 01.	12.2020	
	SAM	PLE DETAILS	
Product Category	Water	Sample Code	WT20120022
Sample Name	Open well	Sample Received on	02.12.2020
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
O1- Otites 0-			

Receipt	Fit for Analysis	Temperature @ Receipt	30 °C		
Sample Quantity & Packing	1L & Plastic Bottle	Test Commenced on	03.12.2020		
Sampled by	Mr. Rahul, Lab Authorized Sampler	Test Completed on	07.12.2020		
	DETAILS OF	SAMPLING			
Sample Source	Open well- Project Site	Date of Sampling	01.12.2020		
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	31 °C		
	SAMPLING SIT	TE DETAILS			

Re -Survey No	332/4,332/5,340/4pt,33	31/4,331/6p,340/3,340/3p,	340/4p
Village	Pananchery	Taluk	Thrissur
District	Thrissur	State	Kerala

		TEST RESULTS - CHEMICAL PA	RAMETE	RS	
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018		Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.20	Max 1
4	pH ·	IS 3025 (Part 11):1983 RA 2017		6.83	6.50 - 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	μS/cm	59.0	
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	38.0	Max 500
7.	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21):2009 RA 2019	mg/L	12.0	· Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	3.20	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	< 1.00	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	6.86	Max 250
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23):1986 RA 2019	mg/L	8.16	Max 200

Shency Joy Dy. TM Chemical Checked by:

Microbiologist Authorized Signatory

Laiju P. N. Laboratory Head **Authorized Signatory** 

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<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





#### TEST REPORT

ULR No: TC540220000003718F	Date: 07.12.2020	Page 1 of 2

	CUSTOME	ER DI	ETAILS	
Customer Name & M/s St. Basil Granites- Quarry Address Poovanchira P O, Thrissur District				
Customer Reference Test Request dt 01.12.2020				
	SAMPLE	DET	TAILS	
Product Category	Water	Sa	ample Code	WT20120022
Sample Name	Open well	S	ample Received on	02.12.2020
Sample Conditions at Receipt	Fit for Analysis	Т	emperature @ Receipt	30 °C
Sample Quantity & Packing	1L & Plastic Bottle	Т	est Commenced on	03.12.2020
Sampled by	Mr. Rahul, Lab Authorized Sampler	Т	est Completed on	07.12.2020
	DETAILS O	F SA	MPLING	
Sample Source	Open well- Project Site		Date of Sampling	01.12.2020

SAMPLING	SITE	DETAILS

SEAAL/ENL/GEN/SOP/01 &

SEAAL/MBL/SOP/06

Re -Survey No	332/4,332/5,340/4pt,33	31/4,331/6p,340/3,340/3p,	340/4p	
Village	Pananchery	Taluk	Thrissur	8.
District	Thrissur	State	Kerala	

		TEST RESULTS - CHEMICAL PA	RAMETE	RS	
Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Colour	IS 3025 (Part 4):1983 RA 2017	Hazen	1.00	Max 5
2	Odour	IS 3025 (Part 5):2018		Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10):1984 RA 2017	NTU	0.20	Max 1
4	pH ·	IS 3025 (Part 11):1983 RA 2017		6.83	6.50 - 8.50
5	Conductivity	IS 3025 (Part 14):1984 RA 2019	μS/cm	59.0	
6	Total Dissolved Solids	IS 3025 (Part 16):1984 RA 2017	mg/L	38.0	Max 500
7 .	Total Hardness as CaCO <sub>3</sub>	IS 3025 (Part 21):2009 RA 2019	mg/L	12.0	· Max 200
8	Calcium as Ca	IS 3025 (Part 40):1991 RA 2019	mg/L	3.20	Max 75
9	Magnesium as Mg	IS 3025 (Part 46):1994 RA 2019	mg/L	< 1.00	Max 30
10	Chloride as Cl	IS 3025 (Part 32):1988 RA 2019	mg/L	6.86	Max 250
11	Total Alkalinity as	IS 3025 (Part 23):1986 RA 2019	mg/L	8.16	Max 200

Shency Joy Dy. TM Chemical Checked by:

Sampling Procedure

Microbiologist Authorized Signatory

Sample Temperature

31 °C

Laiju P. N. Laboratory Head **Authorized Signatory** 

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<sup>S</sup> Environmental & Analytical Laboratories

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

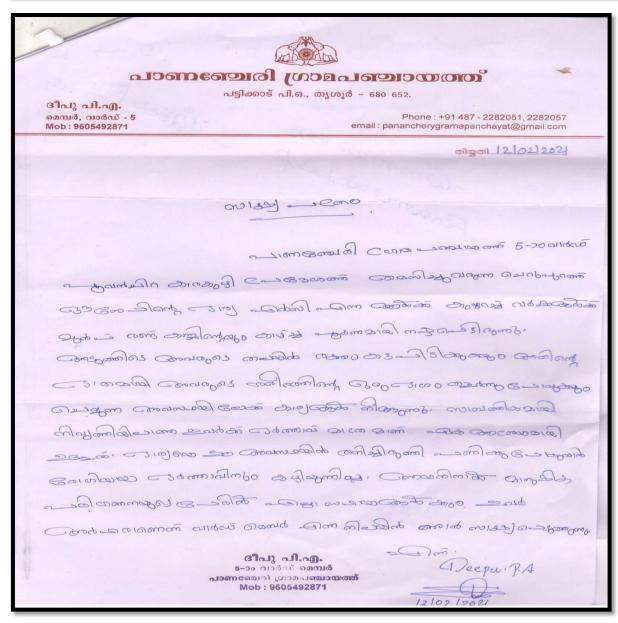
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43

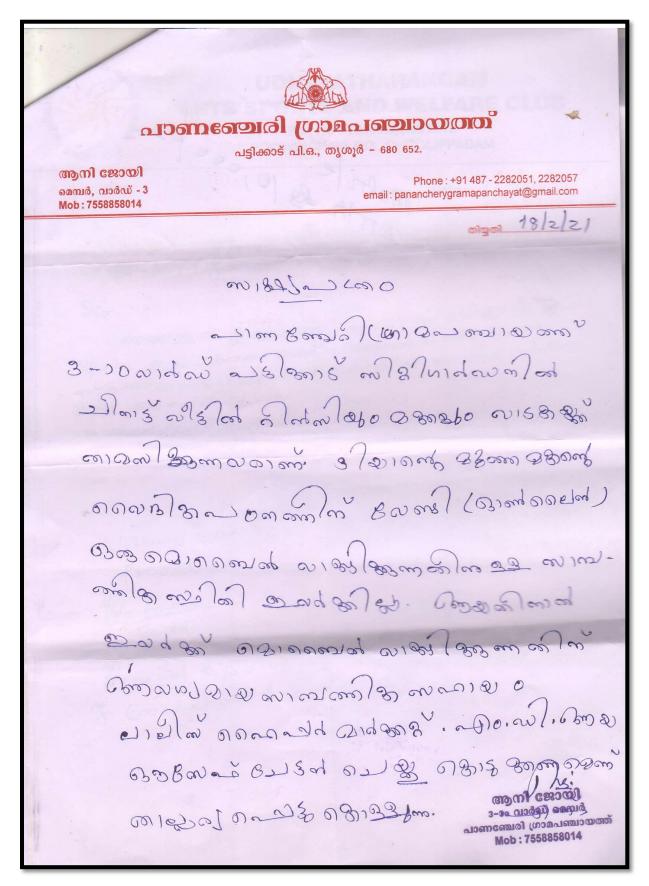
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of water

ST. BASIL GRANITES, POOVANCHIRA P. O., THRISSUR-680652  Date 19.00. 2001 VOUCHER  Debit Head. CSR Activity  Pay to Elsy Cherupurath  Rupees. Twelve Thousand Only  For Financial help for medical daedmin Manager
ST. BASIL GRANITES, POOVANCHIRA P. O., THRISSUR-680652  Date Do I D' DO VOUCHER  Debit Head CSR Autinity  Pay to DYF!  Rupees Seven Transard and  Francial het b  For Expurchasing football (cit for fatball mela.  Manager  Manager
ST. BASIL GRANITES, POOVANCHIRA P. O., THRISSUR-680652  Date Debit Head CSR activity  Pay to Rincy Chernet.  Rupees Pen Thousand Only  For Mobile phene for Son's education pumpine  Manager  Manager

ST. BASIL GRANITES, POOVANCHIRA P. O., THRISSUR-680652  Date 20/02/202/ VOUCHER RS 488 000/
Pay to Ray esh.  Rupees Faces Lakeh Eighty Eight Thousand only.
For Being house Repairing Change & Compound wall Super Manager Construction to prevent Soil exosion Paylogach.





**CSR/CER Receipts**