COMPLIANCE REPORT

October 2016 - March 2017



M/s St. Basil Granites, THRISSUR DISTRICT, KERALA.



Dt. 23-10-2017

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 01/10/2014 by State Environmental Impact Assessment Authority, Kerala. The compliance report of **Second Half** (October 2016 – March 2017) to the specific and general conditions of the Environment Clearance order is enclosed.

The Real Graded Sand

Thanking you,

Yours respectfully,

FOR ST: BASIL GRANITES.

LALY OUSEPH. Managing Partner.

Encl: - As Above

Copy to: The Chairman & The Member Secretary

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

Kerala - 695 024.

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

GSTIN No. 32AAJFS4848P1ZJ

 $\underline{mail@stbasilgranites.com} \hspace{2mm} \underline{www.stbasilgranites.com} \hspace{2mm} \underline{Tel:0487-2282420, 2282820,9846346690,9946469274,9846489097}$

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.

(October 2016 - March 2017)

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INTRODUCTION

M/s St. Basil Granites is situated 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. 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 to the specific conditions and general conditions of the Environmental Clearance for the period of October 2016 - March 2017 is being submitted.

SALIENT FEATURES OF THE PROJECT

The project comes under Category B, Activity 1 (a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) dt.24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Geographical location of the project site is in 10°34'14.55 to 10°34'29.6596" Latitude (N) and 76°21'40.2541" to 76°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:

The quarry project has left 100 meter as safety zone from the nearest settlement formthe mining area. The project does not conduct mining activity in this area.

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

Compliance:

The project has developed a pond in the lowest portion of the project area. All runoff from the quarry area is leading to the existing pond and all sediments settle down at the bottom of the pond. Only clarified water is letting pout this water again de-silted with a de – siltation trap near to the out let.

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

Compliance:

To ensure safety of all, the project has erected barbed metal wire fencing around the mining area with height of 5 ft. This helps to prevent falling of animals/human being/dumping of garbage etc.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

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:

To conserve rain water, a Rain Water Harvesting (RWH) pond is constructed and properly maintaining in the project area. To collect the rain water from the entire minable area, a pond has constructed in the lowest portion of the quarrying site. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system). The photograph showing the rain water collection pond in the project area is attached as **Plate No. 1.**

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

Compliance:

To monitor and evaluate the works done under the conditions stipulated in the EC order, an Environmental Monitoring Cell (EMC) was formed with Mr. K P Ouseph as head of the Monitoring Cell. The EMC meeting convened regularly for a sustainable environment. The details of the monitoring cell are given in **Table No.1**.

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. (NABET Accredited Consultancy)	

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:

Avenue trees are help full to prevent sound and dust emission during transportation of materials. There for the project proponent has planted suitable avenue trees along the road side and parking area. There are natural vegetation including trees, shrubs, herbs and climbers present either side of tarred road and in the parking areas. This will help to reduce air and sound pollution. The copy of bill from nursery is given in **Annexure No.1** and the photographs of avenue trees planted in the road side are given in **Plate No.2**. The details of vegetation are given below.

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

SI. No.	Scientific Name	Scientific Name Common Name		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 generation	Complied
		and utilization wherever possible.	

To reduce the use of electricity from conventional sources and part of energy conservation, the project is generating and utilizing energy from solar by installing two solar lights in the project site. The photograph of solar lights is provided is **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 contain	Complied
	dust emissions.	

To contain dust emission, the sprinklers installed in the project site and the same is working properly. The sprinklers installed in and around the crusher unit. To prevent dust emissions from the road while transportation of materials, the project is spraying water on roads. The photographs showing the effective utilization of sprinklers in the project area is provided in **Plate No.4.** The monitoring of the air quality through a NABL accredited laboratory helps the project proponent to maintain the air quality within the permissible limit.

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 an integral part of mining industry, therefore the project has started to plant various saplings within the project area. The list of tree/shrub/herb saplings planted in the project site is given below in **Table No. 3**. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal. The photographs of planted saplings are provided 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	gifera indica Mavu		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 be	complied						
	reclaimed with stacked dumpings and overburden and planted with							
	indigenous plant species that are eco-friendly.							

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

(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:

The activities under Corporate Social Responsibility (CSR) activities are implemented in the sector of Infrastructure. The project proponent is intending to carry out more activities under CSR for inclusive growth in the community. Photograph of performed CSR is attached as **Plate No.6.**

09	Barbed metal wire fencing around the mining area shall be Complie	d
	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	

To ensure safety of all, the project has erected barbed metal wire fencing around the mining area with height of 5 ft. This will help to prevent falling of animals/human being/dumping of garbage etc,The purchase bill of materials is given in **Annexure No.3**. The photograph of barbed metal wire fencing is provided in **Plate No.7**.

10	Warning	alarms	indica	ting	the	time o	f blas	sting	(to be	done	at	complied
	specific	timings) has	to	be	arrange	d as	per	stipul	ations	of	
	Explosive	e Depart	ment.									

Compliance:

To give warning to the labours and community people prior to the blasting in quarry, the project installed warning alarms as per the stipulation of Explosive department in the quarry site. This is properly working prior to the blasting time. The time of blasting in the quarry is 1.00 pm on all working days. The photograph of alarm is given in **Plate No. 8**

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.

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

Compliance:

Quarrying activities are limited to day time only as per KSPCB guidelines. The quarry working time is 8 am to 5.00 pm. This will help to limit the sound pollution.

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

Compliance:

To reduce ground vibration and fly rock, the blasting is done in controlled manner by using delayed detonators. All blasting activities are carrying out under the supervision of qualified persons with the stipulated guidelines of explosive department and other concerned agency.

14	Α	licensed	person	should	supervise/control	the	blasting	Complied	
	ор	erations.							

The project has appointed a Licensed person for supervise/control the blasting operations for the extraction of granite building stones. **Annexure No. 4** showing the certificate of mining mate.

15	5	Access	roads	to	the	quarry	shall	be	tarred	to	contain	dust	Complied
		emissio	ns that	may	, aris	e during	g trans	port	ation of	ma	terials.		

Compliance:

The black or white top road can reduce emission of dust from the movements of vehicles. To achieve this, the access road of 450 meter from the entrance of project site to quarry is tarred. The project is spraying water on the road to arrest the dust during summer season. The photograph of tarred road is provided in **Plate No. 9**

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

Compliance:

There is no old quarry in the land of project proponent for restoration. The overburden materials are stored within the site at a designated place. This will be used to restore the exploited area in future. The photograph is showing the same in **Plate No.10**.

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

Compliance:

To enhance safety and bring environment friendly quarrying, the excavation activity in the project is progressing by creating benches of 5m width x 5m height. At present the project proponent has created four benches in the site **Plate No. 11** showing the same.

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

The project is yet to use mats to reduce fly rocks during the time of blasting. The project is using electric delayed detonator for blasting therefore the problem with fly rock in the community is nil. The project can also assure the maximum PPV is under 10 with the controlled blasting operations under the supervision of qualified persons.

1	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.	Compiled

Compliance:

The depth of mining won't exceed beyond 40 meter or not below the level of the nearest stream bed, whichever is less. The exploration will be done as per the plan submitted before State Environment Impact Assessment Authority (SEIAA), Kerala.

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

Compliance:

In the project site, there is 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 env	brick envelop for crushers so that the noise level is kept within								
	prescribed standards given by CPCB/KSPCB.									

Compliance:

To reduce sound amplification, the machines of crusher unit is housed with solid bricks. (The photograph of crusher is provided in **Plate No.12.**) The labours in the unit are wearing ear plugs to reduce the impact of noise generation from the machines. Well vegetation is also developed around the crusher unit and mining area to reduce noise and air pollution. This helps the noise level is kept within prescribed standards.

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

The mining industry involves occupational health risks. To ensure the safety of labours in mining site, the project provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, glows, etc. to the labours. The bill purchased against personal protective equipments is provided at **Annexure No. 12.**

Ī	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 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**.

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

Compliance:

To avoid dust emission while transportation of materials, the project assure the trucks are covered before it leaving the project site. A photograph of covered truck is provided in **Plate No. 14.**

2	25	The proponent should plant trees at least 5 times of the loss that	Complied
		has occurred while clearing the land for the project.	

Compliance:

The project planted various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining. The photograph of planted trees

is given in **Plate No.4.** The list of trees saplings planted in the project site as part of ecorestoration is provided in **Table No 3.**

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

Compliance:

The project proponent is using the used oil as lubricant for machineries and other equipments. The spend oil will be sold only to the recyclers.

27	Explosives	should	be	stored	in	magazines	in	isolated	place	Complied
	specified an	nd appro	ved	by the e	xplo	osives depar	tme	ent.		

Compliance:

As per the stipulation of competent authority, the project has been stored the explosives in magazine. The magazine is situated in an isolated place specified and approved by the explosives department. The photograph of the magazine is provided in **Plate No.15.**

Ī	28	Norms of KSPCB should be adhered to regarding distance criteria	Complied
		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 distance of the nearest house is 108 meter from the quarry, the KSPCB condition is 100 meter.

29	200	m	buffer	distance	should	be	maintained	from	forest	Complied
	bour	ndar	ies.							

There is no forest area near to the project site.

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

Compliance:

The project proponent has obtained the certificate of "Consent to Operate" (Renewal) from Kerala State Pollution Control Board is provided in Annexure 6.

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.	

Compliance:

The certificates obtained from other concerned statutory authorities are enclosed in Annexure No.5, 6, 7, 8 & 9.

TABLE 4 – APPROVALS FROM COMPETENT AUTHORITIES

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

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

There is no change in the scope of the project. At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India. The project 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 instructs to add additional safeguard measures subsequently, the project will be complied with.

34	The stipulations by Statutory Authorities under different Acts and	Noted
	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
- > Central Ground Water Authority
- > 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	Complied
	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.	
ı		

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

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.

Compliance:

A copy of the Environment Clearance letter was submitted to the Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore 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 both in hard copy as well as mail.

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.	

The details of the Environmental Clearance are prominently displayed with the specific conditions as per specifications mentioned in the condition. Sign board is also displayed showing lease area and boundaries at the entrance of the quarry. photograph of sign board is attached at 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. 11.

PLATES

(Photographs of the project)

Plate No. 1



Rain Water Harvesting Pond





Avenue trees planted along the road side

Plate No. 3



Solar light in the project site Plate No 4



Sprinkler installed in project site

Plate No.5



Sapling planted





House – built by the porject

Plate No. 7



Barbed metal wire fencing in the project site





Warning alarm installed in the project site

Plate No. 9



Tarred access road to the quarry site





Overburden stacked in the project site.

Plate No. 11



Photograph of benches created in the quarry site Plate No 12



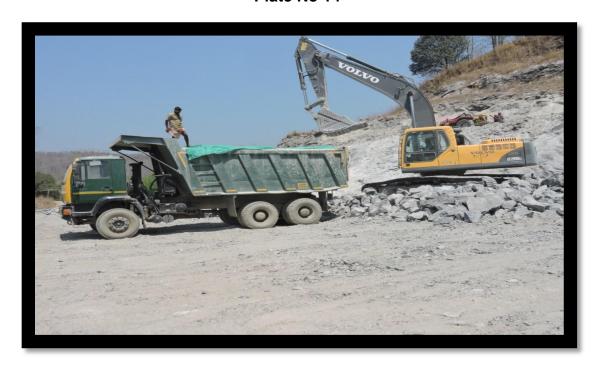
Crusher working in the project site

Plate No. 13



Drainage

Plate No 14



A covered truck; before leaving from the project site

October 2016- March 2017 35

Plate No. 15



Magazines at isolated place in the project site

Plate No. 16

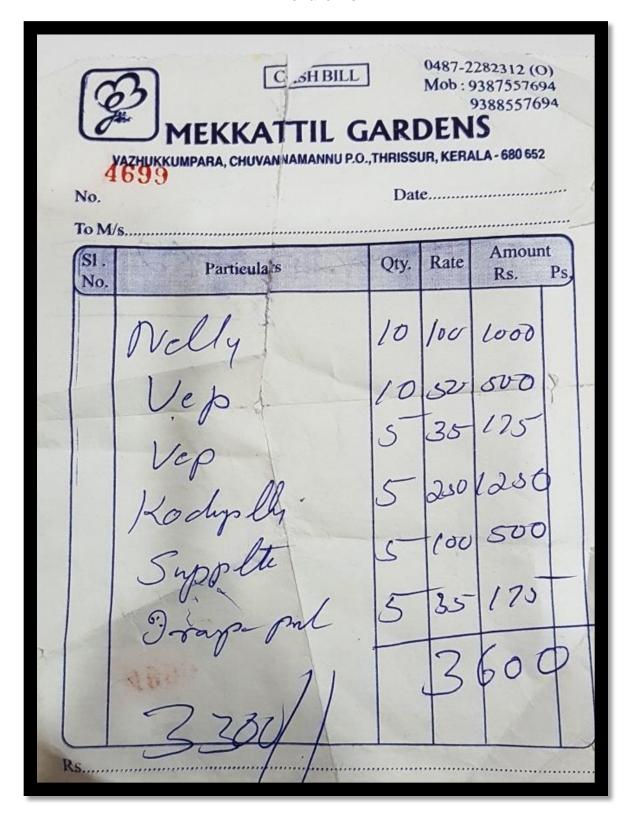


The metallic board displayed the details of EC order

ANNEXURE

(Documents of the project)

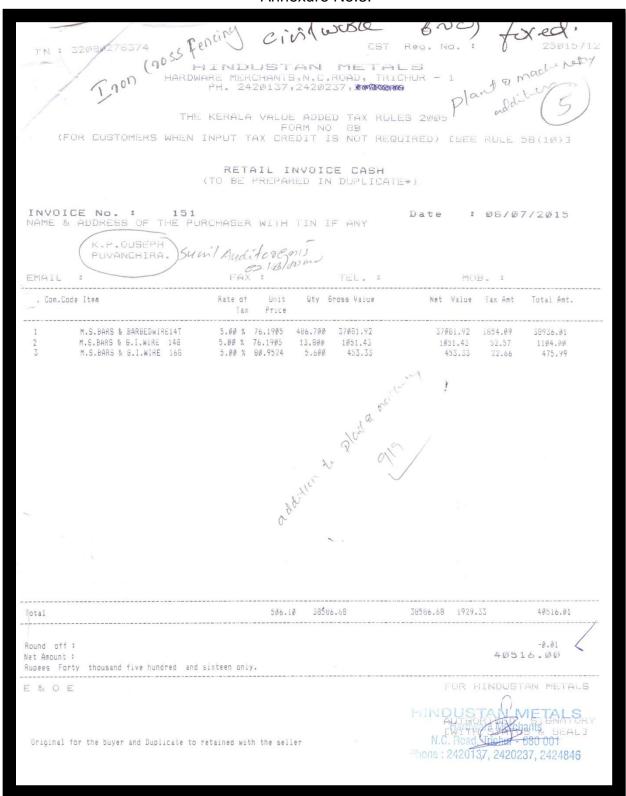
38



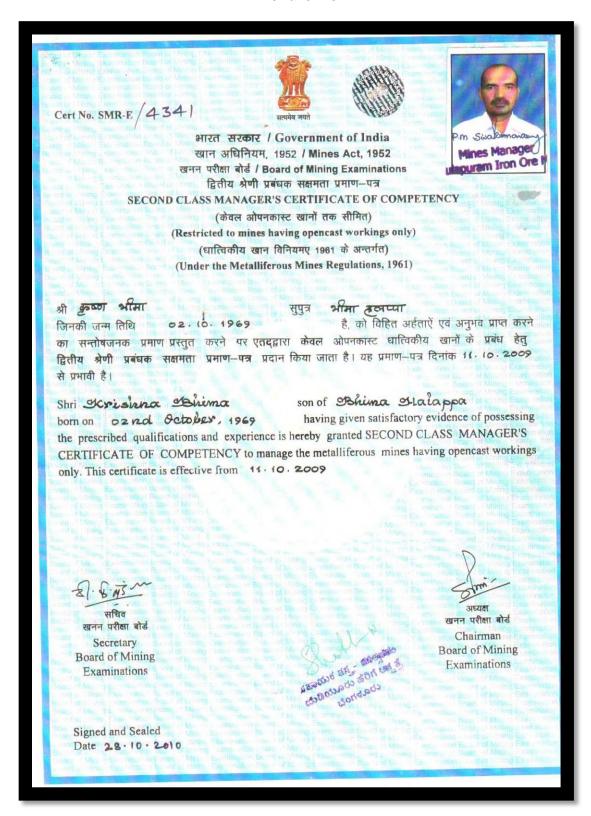
The bill of saplings purchased for eco - restoration



Bill of solar strrrt light purchased



Bill of barbed metal wire



Certificate of Second Clss manager

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Certificate of Mining Mate



Certificate of Mining Mate



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 9th and 10th September 2013 and 21st meeting held on 4th 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





KERALA STATE POLLUTION CONTROL BOARD

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

Date of issue :27/02/2016

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/DO/TSR/R3/ICO/442A/2016

Ref : PCB/DO/TSR/R1/ICO/R2/442A/2012

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 30/09/2017 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	15,470/-		
2	Annual Fee	4,420/-		
3	Capital Investment	25 lakhs		
1	Survey no	332/4, 340/4pt, 340/5		
5	Area	2.4172 hectares		
6	Validity	30/9/2017		

II. Stack Details

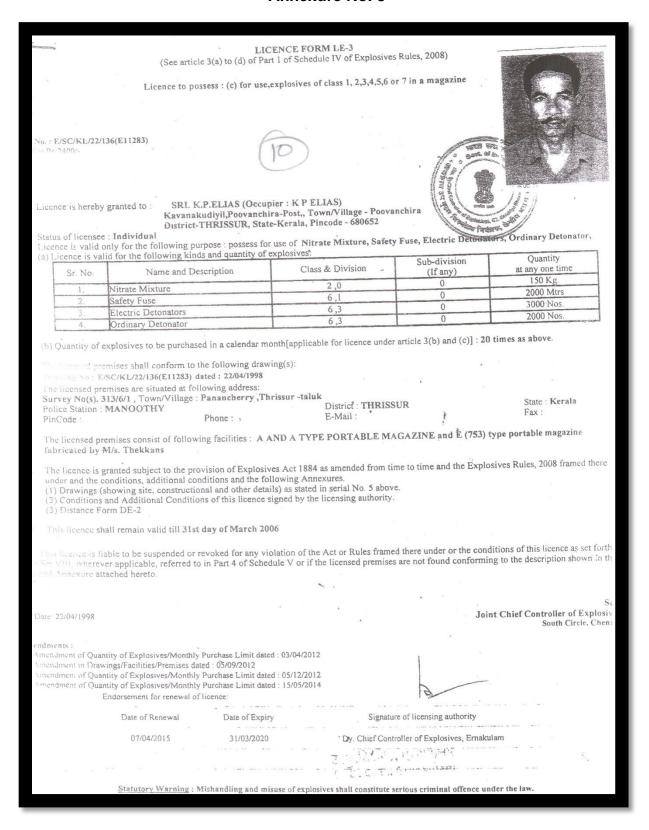
Stack No.		Emission	Stack Height above		Control
		Rate(Nm3/Hr)	Ground Level	Roof Level	Equipment

III. CONDITIONS

- 3.1 The PM10 in ambient air at the boundary shall not exceed 100 $\mu g/m^3$
- 3.2 The PM2.5 in ambient air at the boundary shall not exceed 60 $\mu g/m^2$.
- 3.3 The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas
- area as per the National Ambien Air Quality Standards

3.4 Suspended particulate matter at the boundary of the premises shall act exceed the limit applicable to that

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

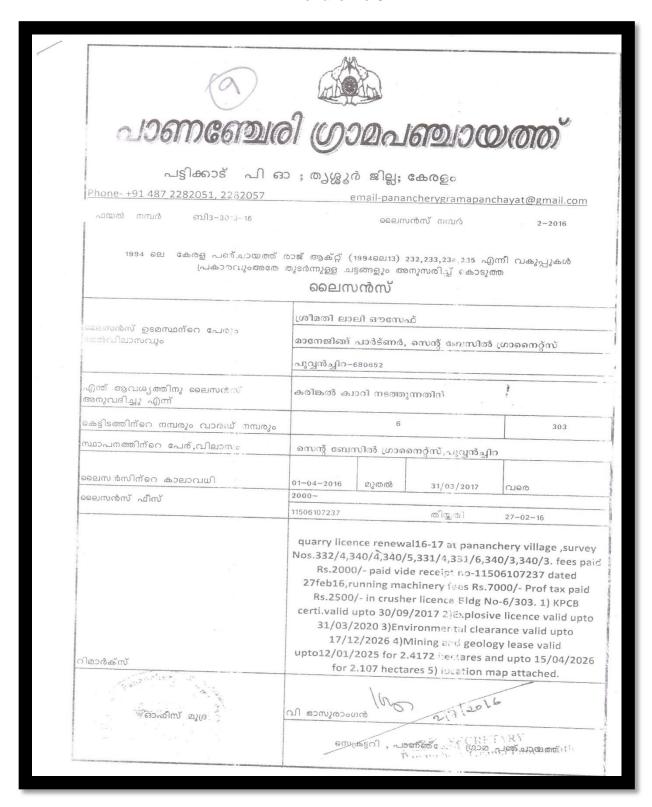
Dated, Tvpm. 26.09.2013

ORDER

The quarrying lease grated vide reference 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.
- 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.
- 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

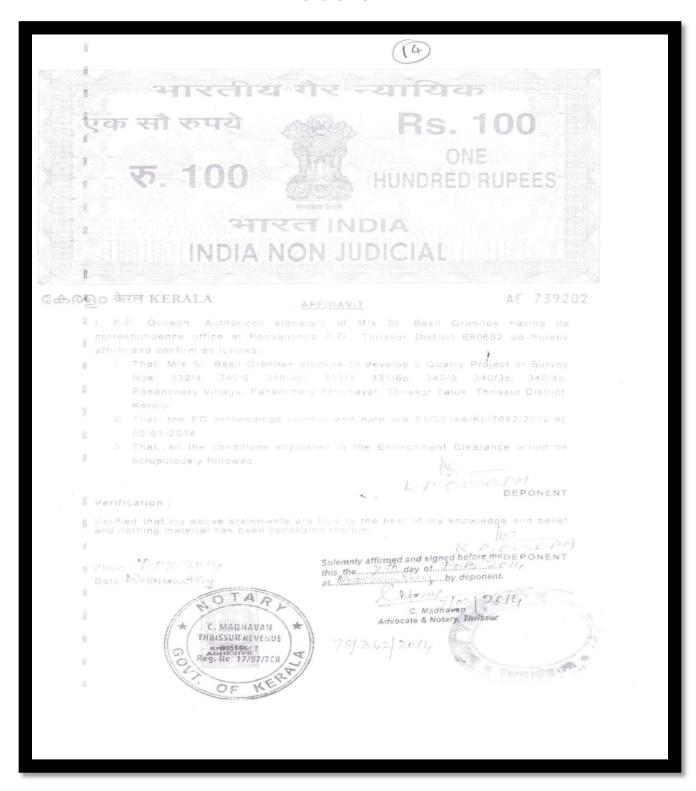




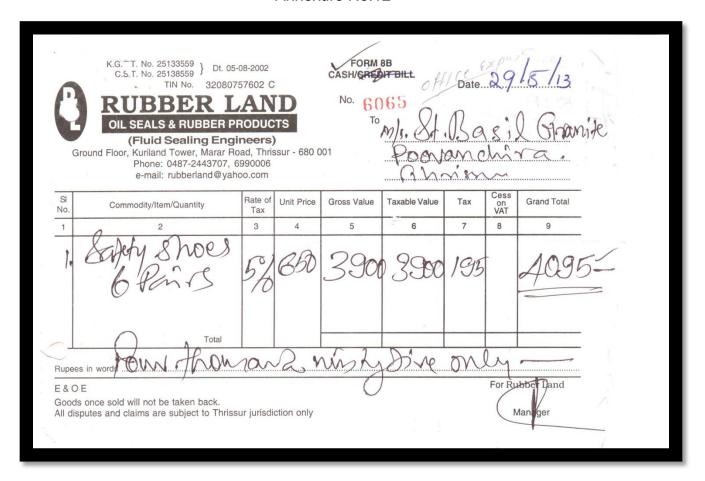
License from Dram Panchayat



Advertisement in two News paper regarding issue of EC order



Affidavit



Personal Protective equipments