# **COMPLIANCE REPORT**

# APRII 2020 - SEPTEMBER 2020

Quarry project of

Mr. Jovin George

Kannur District Kerala



Dt.27-11-2020

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

Ref :- File No. 01/KNR/2017/DEIAA

Sub :- Environment Clearance - Quarry project at Survey No. 275/1A

in Trippangottur Village, Thalassery Taluk, Kannur District, Kerala – Compliance Report –First half - Reg.

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 3.7556 Ha. by order No. 01/KNR/2017/DEIAA dated 22-05-2017 by District Environmental Impact Assessment Authority, Kannur, Kerala. The compliance report of First half (April 2020 – September 2020) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully

Mr. Jovin George

Copy to:-

1. The Member Secretary State Environment Impact Assessment Authority (SEIAA), Thiruvananthapuram, Kerala.

2. DEIAA, Kannur or RDO

Encl: - As Above



#### **COMPLIANCE REPORT**

TO

THE CONDITIONS

**OF** 

#### **ENVIRONMENTAL CLEARANCE ORDER**

NO: 01/KNR/2017/ DEIAA

Dated: 22-05-2017

BY

DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (DEIAA)

**FOR** 

BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT

AT

SURVEY NOS. 275/1A

MADATHINAMATTATHIL, PALISSERY, TRIPANGOTTUR VILLAGE, THALASEERY TALUK, KANNUR DISTRICT, KERALA

BY

Mr. JOVIN GEORGE
KANNUR DISTRICT
KERALA



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#### INTRODUCTION

Quarry project of **Mr. Jovin George** Madathinamattathil, Palissery, Thalassery P.O. is situated at Survey No. 275/1A, Trippangottur Village, Thalassery Taluk, Kannur District, Kerala.

quarry project was accorded with the Environmental Clearance (EC) by District Environmental Impact Assessment Authority, Kannur on 22-05-2017. As part of general condition No.36 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of First half to the specific conditions, health conditions and general conditions of the Environmental Clearance order for the period of April 2020 - September 2020 is being submitted.



# **COMPLIANCE REPORT**

(SPECIFIC CONDITIONS)

**PART A** 



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

01	A mines manager shall be appointed to control ,direct, manage	complied	
	and supervise the quarrying operations required under the		
	mines Act ,1952		

To control direct, manage and supervise the quarrying operations as per the Mines Act 1952 the project proponent has appointed Mines manager. The certificate of Mines engineer is attached as **Annexure No.1** and Form D is attached as **Annexure No 2** for the reference.

02	Health	and	welfare	for	the	persons	employed	shall	be	complied
	implem	ented								

The project proponent has basic health and welfare for the persons employed in the project site. The project proponent is keeping a First aid box in the project site. Other facility of housing, food, water and sanitation has been providing by the project proponent.

03	Controlled blasting should be practiced and blasting shall be	Complied
	done only during day time. The mitigate measures for control of	
	ground vibration to arrest the fly rocks and boulder should be	
	implemented.	

The blasting is done in controlled manner by using ordinary delayed detonators to reduce ground vibration. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. No work will be there in the quarry site at Night.. The blasting time in the quarry is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm. The mitigate measures to arrest ground vibration and fly rock is detailed in General condition No 11. The photograph of the Time showing blasting board is attached as **Plate No. 1.** 



04	Plantation shall be done which includes a green belt of	Complied
	adequate width around the mining lease area excluding the	
	rocky area, along roads, overburden dumps and non-	
	mineralized area by planting suitable native species in	
	consultation with the local DFO/Agriculture department.	

To develop a green belt around the project area the project proponent were planted more than 150 saplings in the project site. Green belt of adequate width is provided all around the Lease Area with Plantation of Native species in consultation with the Local DFO/Agriculture Department.

(	)5	The drains should be regularly de silted and maintained	Complied
		properly check dam and gully checks shall be constructed	
		wherever to required to arrest siltation.de siltation shall be done	
		every year before the onset of monsoon	

To arrest the quarry waste entering in to the public drain and stream, the project has constructed De siltation chambers. These chambers will be de silted during summer season.

To demarcate the lease area, the project proponent has installed fencing around the lease area. This will help to prevent falling of animals/human being/dumping of garbage etc

0	7	The CSR need redrafting with inclusion of felt needs of the	Complied	
		locality with special emphasize for implementing ground water		
		recharging water recharging techniques in and at the vicinity of		
		the proposed site.		

The CSR has been redrafted by the project proponent including the ground water recharging techniques. The same was submitted to DEIAA.



## 08 Appropriates sign boards should be displayed. Complied

The appropriate sign boards were installed in the project site by the project proponent in the project site. Photograph of the signboards is provided at **Plate No. 9**.

## The blasting time must be displayed and strictly adhered to. Complied

To give warning to the labours and community people prior to the blasting in quarry, the project proponent installed warning alarms as per the stipulation of Explosive department in the quarry site. To aware the labours and general public about the blasting a board containing blasting time has displayed in the project site. The blasting time is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm on all working days in the quarry. A board containing blasting time is displayed in the project site. The photograph of the Time showing blasting board is attached as **Plate No. 1.** 

10 Dust suppression mechanism must be in pl	ce. Complied
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The project proponent splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials.

11	A separate small plot to be maintained in the premise to	Complied
	preserve rare and endemic species. If any, listed in the	
	biodiversity assessment etc.	

Project proponent has demarcated a small plot to preserve the endemic and native species. The project proponent started to plant various saplings in the project site.

12	The PPV values must be less than 10 mm/sec.	Noted
1		

#### Quarry project of Mr. Jovin George



The project proponent is using controlled blasting by using electric/ordinary delayed detonators. Blasting operations are controlled by a qualified person. Therefore the project proponent can limit the PPV under 10 mm/sec

13	The green belt shall be provides around the periphery.	being
		complied

The project proponent has provided Green belt around the project area. This will reduce air and noise pollution. This can reduce air and noise pollution. **Plate No.**15 shows the green belt.

•	14	Where the height of the bench formed during earlier workings	Being
		exceeds the maximum each of the excavator engaged for work,	Complied
		such bench height shall be reduced from top to bottom.	

The extraction of minerals is being progress from top to bottom. The maximum height of all benches will be 5 meters. All mining activities are progressing under the supervision of qualified personals.

15	Loose or hanging rock or mineral boulder on the side wall shal	I Complied
	be dressed down before engaging persons for work at the	•
	bottom of the bench.	

The labours works on the bottom bench only after clearing loose minerals form the side wall. The vehicles like JCB, breakers are used to remove the loose or hanging mineral boulders in the project site.

16	Permanent boundary pillars should be fixed by the proponent	complied
	before commencing quarrying	

To demarcate the mining area, permanent Boundary pillars were fixed at each bent of the lease area. The photograph of the boundary pillars is provided at **Plate No. 2**.



17	No quarry blasting to be undertaken and sustained till warning	Noted
	time limit expires and /or when continues 48 hours cumulative	
	rainfall exceeds 8 cm and blasting shall be resumed until 24hrs.	
	of rain free situation arises in the quarry locality based on the	
	evaluation by the revenue officials.	

The condition will be complied by the project proponent when such situation arises. No quarry blasting to be undertaken and sustained till warning time limit expires and /or when continues 48 hours cumulative rainfall exceeds 8 cm and blasting shall be resumed until 24hrs

18	All waste dumps and topsoil dumps shall be properly stabilized	Being
	by using coir mats or bio regeneration .proper drainage system	Complied
	shall be provides so the water is properly diverted away from	
	the dump slopes with no disturbance to the stability of the	
	slopes.	
	•	

The waste dumps and topsoil dumps will be stabilised by using coir mats or bio regeneration. The drainages are constructed in the project site. This will help to manage the storm water during monsoon season.

19	All dumps slopes shall be sufficiently stabilized by using	Noted
	appropriate species mix of grass .creepers, shrubs &trees. This	
	shall be done in consultation with the forest department and	
	local research institution and experts in stabilization of mine	
	dumps.	

The project will plant appropriate grass on the dump to prevent sliding and soil erosion once it is attain its maximum capacity. The overburden and topsoil stacking is progressing in the project site. it is being stacked in the project site.



20	Garland drains of at least 2m width shall be provided all along	Complied
	7.5 m buffer zone to divert the water from entering the quarrying	
	slopes. These drains shall be cleaned every year before the	
	monsoon season.	

The project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes.

21	The water from the garlands drainage shall directed to the	silt Complied
	settling ponds. The clarified overflow from silt settling por	nds
	shall be directed to a Rain Water Harvesting (RWH) pond before	ore
	releasing the clarified water to the natural watercourse.	

The water from the garlands drainage is directing to the silt settling ponds. The construction of RWH pond is almost constructed. The clarified overflow from silt settling ponds will be directed to a Rain Water Harvesting (RWH) pond before releasing the clarified water to the natural watercourse.

1	22	A retaining wall of stone rubbles with wire mesh, of sufficient	Complied
		width and strength (not less than 2m)shall be constructed at the	
		bottom of the slope of the quarry .lease area to arrest any likely	
		roll of boulders during heavy rainfall.	

At the bottom of the slope the project proponent has constructed a retaining wall with stone rubbles. This can prevent sliding and slumping. This has done at appropriate place in the mining area.



# **COMPLIANCE REPORT**

(GENERAL CONDITIONS)

**HEALTH** 



(	01	First Aid kit provide in the work site. It shall be periodically	Complied
		maintained property .some labourers shall be trained on First	
		Aid.	

Project proponent has kept first aid box in the project site in order to provide first aid during injuries happen to the labours in the project. The project proponent has given training for the selected labours in the project site to use first aid box. The first aid kit is periodically maintained.

02	Whole some drinking water should be provided.	Complied	

Pure drinking water is available at all time for everyone in the project site.

03	Premises should be maintained as wet to suppress the dust.	complied	l
			1

The project proponent splashing water on haulage roads and loading and un loading point to reduce the emission of dust

y type of latrines and urinals should be provided. Compli	ed
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The project proponent gives importance to the sanitary needs of workers in the project site. So the project proponent has given sanitary type of latrine and urinals to every labour in the project site. The photograph showing sanitary type of latrines and urinals are attached as **plate No. 3** 

05	Resting place should be provided for workers.	Complied
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The project proponent has provided adequate rest rooms in the project area to get proper rest to the labours. **Plate No. 4** shows the resting place of workers

06	'No Smokin	g' board	should b	e exhibited	according	to COTPA	Complied
	Act.						

#### Quarry project of Mr. Jovin George



The project proponent has displayed No smoking area in the project site. The photograph of the no smoking board is provided at **Plate No. 5.** 

07 Work should not be done in night.	mplied
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The quarrying activities are limited to day time only as per KSPCB guidelines in order to reduce the inconvenience of community. No work activities done during night time. The working time of quarry is at the 7 am to 6 pm.

80	Details of nearest hospitals, shortest route to hospitals and	Complied
	contact no etc. Should be available.	

Details of nearest hospital, Fire station, Police station, etc are available in the project site. **Plate No. 6** Shows the board fixed with Emergency contact numbers

09	Approach roads should be maintained properly.	Being
		complied

To arrest the dust emission and easy transportation the approach road has been properly maintaining by the project proponent in the project site.



# COMPLIANCE REPORT (GENERAL CONDITIONS) PART B



#### **PART - B - GENERAL CONDITION**

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

#### Compliance:

To collect rain water from the entire mining area, the project proponent has developed rain water harvesting pond in the project site. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system).

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, the the Project Proponent formed an Environment Monitoring Cell (EMC) with Mr. Jovin George as head of the monitoring cell. The EMC meeting convenes regularly fir a sustainable environment.

**Table 1 - Environmental Monitoring Cell (EMC)** 

SI. No.	Post	Name
1	Head of monitoring cell	Mr. Jovin George
2	Member	C G George
3	Member	Kadappa Khadar Vali

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.	



To enrich vegetation and prevent air pollution, the project proponent has planted suitable avenue trees along either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present in the project area.. The photographs of avenue trees planted in the road side are given in **Plate No.7**.

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

#### Compliance:

As part of energy conservation, the project proponent has installed solar panels in the project site to generate and utilize maximum renewable energy. The photograph of solar panel is given in **Plate No.14**.

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

#### Compliance:

To prevent dust emission from the road while transportation of materials the project proponent is spraying water on roads during summer season at regular intervals.

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

#### Compliance:

As part of eco restoration, the project proponent will 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.



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 dumping and overburden and planted with	
	indigenous plant species that are eco-friendly, if no other specific	
	condition on reclamation of pit is stipulated in the EC.	

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

0	8	Corporate Social Responsibility (CSR) agreed upon by the proponent	Complied
		should be implemented.	

#### Compliance:

As part of inclusive growth of the community, the project proponent executes various activities under Corporate Social Responsibility/ Corporate Environmental Responsibility of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The details of CSR are given below. Receipts of CSR are attached as **Annexure No. 12.** 

Table No.2 - Detail of performed activities under CSR/CER

Sectors	Activities	Beneficiaries	Amount
			spent in Rs.
Social	Donation	veer pazhassi arts and sports club	3000
	Donation	tharanika samskarika vedhi	3000
Donation		poilur kizhakkum muri kshethram	5000
Infrastructure	House Aid	reji moothradan ,27TH Mile, Poolakutty	75000
Development			

#### Quarry project of Mr. Jovin George



	Total	161000
House Aid	Kelappan Theyyadi narikode	25000
Tiouse Alu	thhovakunnu	30000
House Aid	Chandran Theyyadi Narikode	50000

09	The lease area shall be fenced off with barbed wires to a maximum	Complied
	height of 4ft around, before starting of mining. All the boundary	
	indicators (boards, stores, markings etc) shall be protected at all	
	times and shall be conspicuous.	

#### 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 will be protected at all times and shall be conspicuous.

10	Warning alarms indicating the time of blasting (to be done at specific								at specific	complied	
	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 in the quarry site. This warning alarm is properly working prior to the blasting time.

11	Control	measures	on	noise	and	vibration	prescribed	by	KSPCB	Complied
	should b	oe implemei	nted	l <b>.</b>						

#### Compliance:

To reduce noise and vibration, the following measures are adopting in the project site.

Proper maintenance of machinery and equipments

#### Quarry project of Mr. Jovin George



- ➤ The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- ➤ Personal protective devices i.e., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- The mining activity held in day time only.

#### Blast vibrations and control measures

- Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.
- Optimum delay sequence and stem to column ratio is maintaining to minimize the ground vibration intensity.
- The project proponent has appointed qualified persons to monitor the mining operations

1	2	Quarrying activities should be limited to day time as per KSPCB	Complied
		guidelines/specific conditions.	

#### Compliance:

Quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution. The Quarrying time is from 7 am - 6 pm.

1	3	Blasting should be done in a controlled manner as specified by the	Complied
		regulations of explosives department or any other concerned agency.	

#### Compliance:

The blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons. The blasting time is fixed at 9.00 am-10.30 am, 2.00 pm- 3.00 pm and 4.00 pm to 5.30 pm. The photograph of the Time showing blasting board is attached as **Plate No. 1.** 



14	A licensed person should supervise/control the blasting operations.	Complied
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The project proponent has appointed mines manager in the site to supervise/control exploitation of minor minerals including blasting at the project site. The certificate of licensed person is attached as **Annexure No. 1** and Form D is attached as **Annexure No. 2** 

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

#### Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent is maintaining the access road from the entrance of project site to quarry in good manner. The project splashes water on the road to arrest the dust production during summer season.

Ī	16	Overburden materials should be managed within the site and used	Complied
		for reclamation of mine pits as per mine closure plan/ specific	
		conditions.	

#### 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 is used for the restoration of old quarry in the project site.

1	7	Height of the benches should not exceed 5m, and width should not	Being
		be less than 5m, if there is no mention is the mining plan/specific	Complied
		conditions.	



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. The quarrying is carrying out as per mining plan submitted before the DEIAA. Same is attached as **Plate No. 13.** 

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

#### Compliance:

The project proponent will use ordinary/electric delayed detonator. The blasting will be under the supervision of qualified person. The new technology of delayed blasting can reduce the incident of fly rock. Blasting during unfavorable weather conditions will be avoided. During blasting it will maintain optimum delay sequence and stem to column ratio to minimize the fly rock distance. Mats to prevent fly rock during blasting will be arranged shortly.

19	Maximum depth of mining from general ground level at site shall not	Will	be
	exceed 10m.	comp	lied

#### Compliance:

The project proponent is following the approved mining plan for the exploration 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. The exploration will be done as per the plan submitted before District Environment Impact Assessment Authority (DEIAA), Kerala.

20	No mining	operations	should be	e carried	out a	t places	having a	slope	Noted
	greater	than 45 <sup>0</sup> .							



All section in the mining area is under the prescribed degree of slope therefore No mining operation is carried out with a slope greater than 45°.

21	Acoustic	enclosures	should	be	provided	to	reduce	sound	Being
	amplificati	ions in addition	on to the	prov	visions of g	reen	belt and	hollow	Complied
	brick env	elop for crus	hers so	that	the noise	leve	el is kept	within	
	prescribed	d standards g	iven by C	PCB	/KSPCB.				

#### Compliance:

To reduce the impact of sound to the labours in the unit, the project proponent has provided ear plugs. 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	2	The	workers	on	the	site	should	be	provided	with	the	required	Complied
		prote	ective equ	iipm	ents	such	as ear r	nuffs	s, helmet,	etc.			

#### Compliance:

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, glows, etc. to ensure the safety of workers in working site

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

#### Compliance:

The proponent is very conscious to prevent all quarry waste to enter in the public drainage or stream. The project has constructed storm water drains in the lower slopes of the project area for effective management of storm water. This helps to channelize the storm water to the rain water collection pond and the most of the debris will be settled down in the bottom of the pond. The clarifiers will be installed soon.



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

To avoid dust emission while transportation of materials, the project proponent assured the trucks were covered before it leaving the project site

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

#### Compliance:

The project proponent has planted more than 150 plants in the project site. The project proponent is being planted various saplings in the project area as a compensation of loss of trees while the project proponent is clearing the land for mining.

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

#### Compliance:

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

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

#### Compliance:

The magazine situated in an isolated place specified and approved by the explosives department. As per the stipulation of competent authority, the project proponent has been storing the explosives in magazine. The area surrounded to the magazine was fenced with barbed metal wire. **Plate No 8** shows the photograph of the Magazine.



ſ	28	A minimum buffer distance of 100m meter from the boundary of the	complied
		quarry to the nearest dwelling unit or other structures, not being any	
		facility for mining shall be provided.	

To prevent possible fly rock and vibration to nearby houses, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. There is 143 meter distance to the nearest house from the boundary of mining area.

Ī	29	100 m buffer distance should be maintained from forest boundaries.	Complied
			-

#### Compliance:

The project proponent has left more than 100 meters as buffer distance from 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 consent from KSPCB under Water and Air Act(s). The copy of certificate of "Consent to Operate" (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No.3.** 

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

#### Compliance:

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No. 3, 4, 5, 6 & 7**. The details are given in **Table No 3** 



#### **TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES**

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

In the case of any change(s) in the scope of the project, extent	Noted
quantity, process of mining technology involved or in any way	
affecting the environemental parameters/impacts as assessed, based	
on which only the EC is issued, the project would require a fresh	
appraisal by this Authority, for which the proponent shall apply and	
get the approval of this Authority.	
	affecting the environemental parameters/impacts as assessed, based on which only the EC is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and

#### 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:

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



The stipulations by Statutory Authorities under different Acts and Noted Notifications should be complied with, including the provisions of Wate (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. The		
	advertisement should be made within 10 days from the date of		
	receipt of the Clearance letter and the copy of the same signed in all		
	pages should be forwarded to the office of this authority as		
	confirmation.		

#### Complied



An advertisement in two local daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala.

A copy of the clearance letter shall be sent by the proponent to concerned Grama/District Panchayath / Municipality / Corporation / Urban Local Body and also to the Local NGO, if any from whom suggestions / representations, if any were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

#### Complied

#### Compliance:

A copy of the Environment Clearance letter was submitted to the Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance latter to anyone. The Acknowledgement of the clearance letter sent to the panchayth is attached as **Annexure No. 8** 

The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard 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 to the State Environment Impact Assessment Authority (SEIAA) office.

#### Complied

#### Compliance:

The compliance report is being submitted to the District Environmental Impact assessment Authority, Kannur, State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC Bangalore as Email. The monitoring result is attached as **Annexure No. 9, 10 & 11.** 



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.	
	Sign board with extent of lease area and boundaries shall be	
	depicted at the entrance of the quarry, visible to the public.	

The conditions of the environmental clearance prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font. **Plate No. 6** is the photograph of the Metallic board. The extent of lease area boundary will depict soon. The photograph of the metallic board is provided as **Plate No. 10** 

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 DEIAA

40	No change in mining technology and scope of working should be	Noted
	made without prior approval of the SEIAA, No further expansion or	
	modification in the mine shall be carried out without prior approval of	
	the SEIAA, as applicable.	

#### Compliance:

At present, the project proponent is not intending to expand the area of mine, technology and scope of working. The project will appear SEIAA for Environment Clearance if the project wants to expand its scope. The mining is progressing as per submitted plan.



The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any originating from the mine lease shall be taken.

Noted

#### Compliance:

There is no such natural water course or thodu is flowing along the project site. The project proponent will ensure the natural runoff of storm water. No stream is originating from the lease area.

Monitoring of Ambient air Quality to be carried out based on the notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and un loading points & transfer point to reduce fugitive emissions.

Noted

#### Compliance:

The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project proponent is intending to increase the splashing of water and installed sprinklers at loading, unloading and transfer points. This activity can reduce the fugitive emission.

The top soil, if any, shall be temporarily stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over Burden (OB) generated during the mining operations shall be staked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.

Noted



The natural resources like top soil and overburden is being stacked in a designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of District Environment Impact Assessment Authority (DEIAA), Kannur. The Environment Monitoring Cell will monitor the execution of eco restoration.

Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc., The drains shall be regularly de silted particularly after monsoon and maintained properly.

#### Compliance:

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels will direct the water to the rain water collection pond. All sediments and silts are settling at the bottom of the pond and only cleared water is letting out. The water from the pond can be used for splashing of water on roads to arrest the dust.

be carries out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>2.5</sub>, such as haul road, loading an un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.

#### Compliance:

The project proponent is regularly checking the pollution of all vehicles in the site and spraying water in critical areas prone to air pollution with the help of vehicle.



The project proponent will fix sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The ambient air quality is monitoring with the help of an approved laboratory.

46	Fugitive dust emission from all the sources should be controlled	Being
	regularly. Water spraying arrangements on haul roads, loading and	complied
	unloading and at transfer point should be provided and properly	
	maintained.	

#### Compliance:

The project proponent splashes water in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The sprinklers and vehicle for water spraying are properly maintained.

47	Measures should be taken for control of noise levels below 85 dBA in	Complied
	the work environment.	

#### Compliance:

The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go beyond 85dBA. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11. At present all machines and vehicle are properly maintained in the industry.

48	A separate Environmental Management Cell with suitable qualified	Complied
	personal should be set up under the control of a senior executive,	
	who will report directly to the Head of the Organization.	

#### Compliance:

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent constitutes an Environment Monitoring Cell with Mr. Jovin George as the head of the Cell.



49	The funds earmarked for environmental protection and CSR activities	Being
	should be kept in separate account and should not be diverted for	complied
	other purpose. Year wise expenditure should be reported to the State	
	Environment Impact assessment authority (SEIAA) office.	

The project proponent executes many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent will open an account for keeping the funds earmarked for environmental protection and CSR.

50	The Regional Office of MoEF &CC located at Bangalore shall monitor	Noted
	compliance of the stipulated conditions. The project authorities should	
	extend full cooperation to the officer(s) of the regional Office by	
	furnishing the requisite data/information/ monitoring reports.	

#### Compliance:

The project proponent scrupulously follows the condition stipulated in the EC order and keeping all records with a good documentation system. The project will extent all possible cooperation to the officers form regional office of MoEF &CC and can produce all data/information/reports when they are asking for the same.

51	Any appeal against this environmental clearance shall lie with the	Noted
	National Green Tribunal, if preferred within a period of 30 days as	
	prescribed under section 16 of the National Green tribunal Act, 2010.	

52	Concealing the factual data or submission of false/ fabricated data	Noted
	and failure to comply with any of the conditions mentioned above may	
	result in withdrawal of this clearance and attract action under the	
	provisions of Environment (Protection) Act, 1986.	



The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

#### Compliance:

The project proponent is willing to implement the conditions stipulated in the Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment.

54	The above conditions shall prevail not withstanding anything to the	Noted
	contrary, in consistent, or simplified, contained in any other permit,	
	license on consent given by any other authority for the same project.	

#### Compliance:

The project proponent will give priority to the conditions stipulated in the Environment clearance Order.

55	This order is valid for a period of 5 years or the expiry date of mine	Noted
	lease period issued by the Govt. of Kerala, whichever is earlier.	

56	The environmental clearance will be subject to the final order of the		
	courts in any pending litigation related to the land or project, in any		
	court of law.		

57	The mining operation shall be restricted to above ground water table	Noted
	and is should not intersect ground water table.	



#### Compliance:

The project proponent is following approved mining plan for the extraction of building stones. The project proponent will restrict its mining operations above the ground water table.

5	8	All vehicle used for transportation and within the mine shall have	Complied
		"PUC" certificate from authorized pollution taking center. Washing of	
		all vehicles shall be inside the lease area.	

#### Compliance:

As part of reduce air pollution, the project proponent is monitoring the pollution level of all vehicles playing in the project site. This monitoring conducts only in authorized pollution testing center.

59	Project proponent should obtain necessary prior permission of the	Noted
	competent authorities for drawl of requisite quantity of surface water	
	and ground water for the project.	

#### Compliance:

At present, the need of prior approval is not necessary to draw ground water and surface water for the project.

60	Regular monitoring of flow rates and water quality upstream and	Noted
	down streams of the springs and perennial nallahs flowing in and	
	around the mine lease area shall be carried out and reported in the	
	six monthly report to SEIAA.	

#### Compliance:

There is no stream or springs flowing in and around to the mine lease area. The project proponent will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area entering in to the public drainage system.

#### Quarry project of Mr. Jovin George



Occupational health surveillance programe of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

### Compliance:

The project proponent has started occupational health surveillance programme in association with Primary Health Center (PHC) of Kerala government for the labours working in mining area and crusher.

# **PLATES**



Plate No. 1



Board showing blasting time





**Boundary Pillars** 



Plate No. 3





Sanitary Latrine and Urinals

Plate No. 4



Resting Room



Plate No. 5



No Smoking Board

Plate No. 6



**Emergency Contact Numbers** 



Plate No. 7



Avenue Trees

Plate No. 8



Magazine



Plate No. 9



Sign Boards

Plate No. 10



Metallic Board



Plate No. 11



Eco restoration

Plate No. 12



Photograph of Mining Area



Plate No. 13



Photograph of Overburden





Photograph of Fencing



Plate No. 15

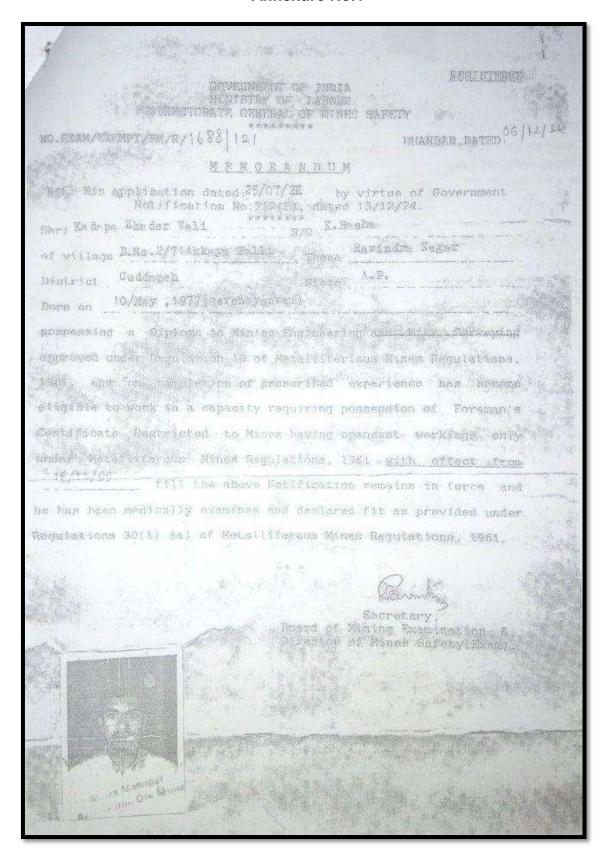


Green belt



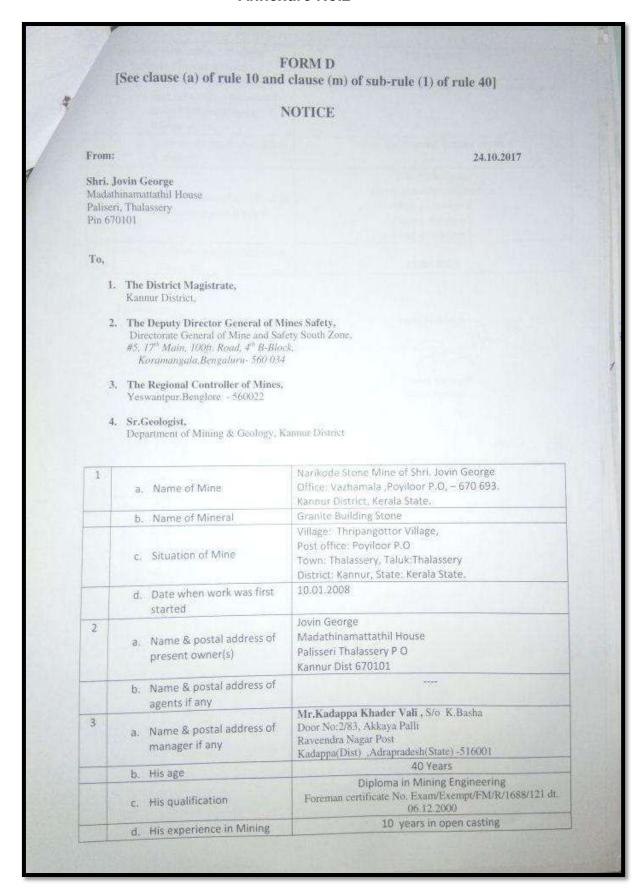
# **ANNEXURE**





Certificate of licensed Person







1	whether working are likely to be Extended below ground	Yes in future
3 3	a. Maximum depth of open cast excavation measured from its highest to its lowest point	Above ground 4 meters from its highest to lowest point
	b. Date when depth exceeded 6 meter	Not Yet reached 6meter depth
6	Nature, amount and kind of explosives used if any	Nitrate Mixture Slurry emulsion explosives Class 2 division 0 Class 6 division 1 Class 6 division 3
	b. Date when explosives were first used	20.04.2015

Form D





#### KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/KNR/ICE/1915/2014

Date of issue :08/05/2020

#### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: PCB/KNR/ICO-R/488/2020

Ref: 1. Consent number: PCB/ KNR/ICO-R/360/2017 dated 23/05/2017

2. Application number:12884720 dated 28/02/2020

The 'Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O, KANNUR DT - 670693 is hereby renewed up to 30/04/2025 and issued to M/s QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O, KANNUR DT - 670693 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	1.1 VALIDITY	30/04/2025
2	1.12 FEE REMITTED/YEAR	Rs. 22000/-
3	1.13 TOTAL FEE REMITTED	Rs. 150,800/-
4	1.16 ACTIVITY	QUARRYING OF ROCK IN 3.7556 HECTARES
5	1.14 CAPITAL INVESTMENT	Rs. 9,389,000/-

#### II. Stack Details

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

#### III. CONDITIONS

- 2.2 Application for the renewal shall be submitted before 28/02/2025.
- 2.6: If any statement in the affidavit furnished along with the renewal application is found false, the consent

Page 1



issued will be revoked and further prosecution will be launched against the unit.

- 3.5 The particulate matter (PM 10) at the boundary of the premise shall not exceed 100 microgram/m3.
- 3.6 The particulate matter (PM 2.5) in ambient air at the boundary shall not exceed 600 microgram/m3.
- 4.2 Permanent fence made of wire mesh shall be provided and maintained along boundary of the approved quarry area.
- 4.6 There shall be a minimum distance of 50 m from the boundary of the quarry to the nearest residence, places of worship, railway tine, bridge, river, lake, public building and road having public transport system.
- 4.12 After completion of quarrying, the land may be reclaimed as per the mining plan approved by the Department of Mining and Geology.
- 4.13 This consent is issued subjected to Environmental Clearance 04/2017 by District Environmental Impact Assessment Authority, Kannur No.01/KNR/2017/DEIAA Dated 22/05/2017 valid up to 21/05/2022.
- 4.14 This consent is valid only when the Environmental Clearance is valid.

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

ANITA KOYAN Date: 2020.05.08 10:56:59 +05'30'

DATE:08/05/2020

SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER



JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000
- 2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

Page2

Copy of Consent form PCB





Validity expires on 21.05.2022

## Proceedings of the District Environment Impact Assessment Authority

Present: Sri. Mir Mohammed Ali I.A.S, Chairman; Sri. O Jayarajan I.F.S (Rtd), Member ;Sri.Suneel Pamidi,I.F.S ,Member and Sri. P.. Gangadaran, Member Secretary.

Sub: DEIAA- Environmental clearance for the proposed Quarry project of Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O. for an area of 3.7556Hectares in Survey No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District

#### DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR

No. 01/KNR/2017/DEIAA

Dated, ,22/05/2017, Kannur

- Ref: 1. Online Application dated 17/01/2017 from Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O.
  - 2. Minutes of the 3<sup>rd</sup> meeting of DEAC held on17/03/2017.
    3. Minutes of the 5<sup>th</sup> meeting of DEAC held on 04/05/2017.

  - 4. Minutes of the 6<sup>th</sup> meeting of DEIAA held on 19/05/2017.

#### **ENVIRONMENTAL CLEARANCE NO. 04/2017**

Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O. vide his application received on 17/01/2017, has sought Kannur District ,Kerala Environmental Clearance under EIA Notification, 2006 for the quarry project of an for an area of 3.7556Hectares in Survey No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District . The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. As per gazette notification no SO 190(E)dtd 20/01/2016, Government of India and of India Government GO(Ms)no.05/2016/Envt Dtd 04/04/2016,Govt:of Kerala DEIAA and DEAC constituted for considering the applications for environmental clearance less than 5 hectares in individual cases and 25 hectares in cluster

The proposed project site falls within Latitude: 11°47'50.59"N to 11°47'59.02"N and longitude 75°40'41.61"E to 75°40'51.60"E". The land area consists of 3.7556hectares, which is private land. The land use classification as per revenue records is

Page 1 of 5

Copy of Environmental Clearance





भारत सरकार | Government of India वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry पेट्रोलिंग्स तथा विस्फोटक सुरक्षा संगठन (पेसी) | Petroleum & Explosives Safety Organisation (PESO) पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor CSEZ पी.ओ.कक्कालाड कोच्ची | CSEZ PO Kakkanad Dist. Emakulam Ernakulam 682037

फोल (Phone):- 2427286 | फैक्स (Fax):- 2427276 ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SE/KL/22/18(E85231)

सेवा में | To, JOVEN GEORGE, दिनांक (Date): 07/02/2019

=.8 FEB 2019

विषय :

Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri District-KANNUR, State-Kerala, Pincode - 670101

Survey No.275/1A, ग्राम Tripangottur, जिला KANNUR, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कबजा हेत्

Subject:

विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुजाप्ति सं E/SE/KL/22/18(E85231) के नवीनीकरण संदर्भ में। Possession for Use of of Explosives from magazine situated at Survey No.:275/1A, Tripangottur, Dist. KANNUR, Kerala -Licence

No.: E/SE/KL/22/18(E85231) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिलांक 30/01/2019 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुस्रामि दिलांक 31/3/2024 तंक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No.: Nil dated: 30/01/2019, the subject licence duly renewed upto 31/3/2024 and issued in Form LE-3 of Explosives Rales, 2008 is

अनुनिंस के आगामी नवीकरण हेतु कृपया निम्निलिखित दस्तावेज दिनांक 31/03/2024 से पहले **इस कार्यालय** को भेजे जाएं. For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2024.

 प्ररूप आरई-। में विधियत पूर्ण एवं हस्ताक्षरित आवेदन। Application in Form RE-1 duly filled in and signed.

 एक से पाँच वर्ष के अनुजाति शुल्क का बैंक ड्राफ्ट। बैंक ड्राफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक, चेन्नई के पक्ष में चैन्नई में देय हों। Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.

 अनुमोदित प्लान के साथ मूल अनुजिति। Original licence with approved plan.

कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें। In this connection, please also refer to Rule 112 of Explosives Rules, 2008.

 विस्फोटकों के कय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाएं (आतिशबाजी गोदाम के लिए लागू नहीं )। Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)

• कृपया विस्फोटकों की त्रैमासीक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाएं । विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं ) I Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter. (Not applicable for fireworks store house)

सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो। All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

आपके खाते में रूपए 700/- की राशि शेष हैं जो इस संदर्भ को उद्धृत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती हैं । An amount of Rs. 700/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

भवदीय | Your's faithfully

(आर.वेणुगोपाल | Dr. R.Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

Deputy Chief Controller of Explosives rnekulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. ज़िला मजिस्ट्रेट (District Magistrate), KANNUR (Kerala)- सूचना के लिए (for information.)

5प मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Emakulam

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

#### अनुजित प्ररुप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।) (See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

वयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अन्जिप्ति

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

अनुजित सं. (Licence No.) : E/SE/KL/22/18(E85231) वार्षिक फीस रुपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

JOVIN GEORGE (अधिभोगी / Occupier : JOVIN GEORGE), Madathinamattathil House, Palisseri, Thalassery P.O., Thalassery, Kannur, Town/Village - Palisseri, District-KANNUR, State-Kerala, Pincode

को अन्जप्ति अनुदत्त की जाती है।

2. अनुजिसिधारी की प्रास्थिति | Status of licensee : Individual

अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य

possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए

Licence is valid only for the following purpose.

4 अनुराप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1	Nitrate Mixture	2,0	0	125 Kg.
3	Safety Fuse	6.1	0	2000 Mtrs
3	Electric and/or Ordinary Detonators	6,3	0	3000 Nos.

(ख) किसी एक कतैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञित के लिए।

25 times as above.

(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]:

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञस परिसर की पुष्टि होती रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/18(E85231) दिनांक (Dated) 05/03/2015 The licensed premises shall conform to the following drawing(s):

6. अनुराप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 275/1A , ग्राम (Town/Village) : Tripangottur राज्य (State)

पुलिस थाना (Police Station) : Kolavalloor पिनकोड (Pincode) Kerala

जिला (District) दरभाष (Phone) KANNUR 9447485245

ई. मेल (E-Mail)

फैक्स (Fax)

<sup>7.</sup> अनुज्ञिस परिसर में निम्निलिखित सुविधाएं अंतर्विष्ट हैं।

Two cemented magazines

The licensed premises consist of following facilities.

- 8. अनुजित समय समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्निलेखित उपाबध्दों के अधीन रहते हुए अनुदत्त की जाती है। The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
  - उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सिन्नर्माण संबंधी और अन्य विवरण दर्शित करते हुए)। Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
  - अनुजिस प्राधिकारी व्दाररा हस्ता क्षिरित इस अनुजिस की शर्ते और अतिरिक्ति शर्ते। Conditions and Additional Conditions of this licence signed by the licensing authority.

3. द्री प्ररूप DE-2 | Distance Form DE-2.

9



यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March यह अनुजित, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीर तथा उपवर्णित इस अनुजिति की शर्तों का अधिक्रमण करने या यदि अनुजित परिसर योजना या उससे संलग्न उपबंध मे दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो। This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 05/03/2015

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives

#### Amendments:

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 15/03/2016
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 15/01/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 08/08/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 23/10/2018

Change in Licensee Name/Address/Status dated: 10/07/2017

नवीनीकरण के पृष्ठांकन के लिए स्थान Space for Endorsement of Renewal

नवीकरण की तारीख	समाप्ति की तारीख	अनुनापन प्राधिकारी के हस्ताक्षर और स्टाम्प	
Date of Renewal	Date of Expiry	Signature of licensing authority and stamp	
07/02/2019	31/03/2024	Dy. Chief Controller of Explosives, Ernakulam	

Deputy Chief Controller of Explosives

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध होगा। Statutory Warning: Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Copy of Explosive license



നമ്പര്: 53/2020-2021/A-3/A2-945/20 തീയതി: 27/05/2020 തൃപ്രങ്ങോടുർ ഗ്രാമപഞ്ചായത്ത് കല്ലിക്കണ്ടി പി.ഒ., കണ്ണൂർ (ജില്ല) പിന്: 670693, ഫോണ്: 0490-2462034, ഇ-മെയില്: triprangottoorgp@gmail.com വ്യവസായം, വാണിജ്യം, സംരഭകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ് (കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996) ജോവിന് ജോര്ജ്ജ് ലൈസൻസിയുടെപേര് ലൈസൻസിയുടെ മഠത്തിനാമറ്റത്തില് തലശ്ശേരി മേൽവിലാസം സ്ഥാപനത്തിന്റെ പേരും, ക്വാറി നരിക്കോട് മല സ്ഥലനാമവും ലൈസൻസ് നൽകിയിട്ടുള്ള ക്വാറി പ്രവർത്തനങ്ങൾ വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ II/275 1A ലൈസെൻസ് 01/04/2020 മുതൽ 31/03/2021 0.00 കാലാവധി രസീത് നമ്പർ തീയതി തുക ലൈസെൻസ് ഫിസ് 5000/- rozal 119010107692 27/02/2020 മോട്ടോർ ഫീസ് 119010107692 27/02/2020 2500 /- രൂപ തൊഴിൽ നികുതി 119010107693 27/02/2020 പൊലുഷൻ കൺട്രോൾ ബോർഡിന്റെ 08/05/2020 ലെ NO PCB/KNR/ICO-R/488/2020 (VALIDITY 30/04/2025) ലൈസെൻസ് അനുവദിക്കുന്നതിന് ഹാജ്രാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര ( omlacaum ഓഫീസ് മുദ്ര തൃപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്ത് o. O. Kallikkandi-670 693

Copy of license from Gram Panchayat



### PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY

Mining & Geology - Mines & Minerals - Minor Minerals - Granite Building Stone - Quarrying Lease to Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O. Kannur District - 670 101 -sanctioned - orders - issued.

Ref: 1. Application dtd. 21/02/2017 from Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District - 670 101

2. Letter No. DOC/M-5353/2016 dtd. 30/08/2016 from the Geologist, District Office, Kannur 3. Pro.order. No. 01/KNR/2017/DEIAA dtd. 22/05/2017 of the District Environment Impact

Assessment Auhority, Kannur, Kerala

Kerala Minor Mineral Concession Rules, 2015.

No. 409/2017-18/8825/M3/2016/DMG

Dated, Thiruvananthapuram 04/10/2017

#### ORDER

A quarrying lease is granted to Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District - 670 101 to quarry Granite (Building Stone) over an area of 3.7556 Hectares of land comprised in Re - Sy. No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District for 12 (Twelve) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, Thalassery and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

- Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time 2. on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of
- The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
- The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered. 6
- The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
- The lessee shall not win and dispose of any type of dimension and decorative stones from 7. the area over which the quarrying lease has been sanctioned on the strength of this order.
- The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to 1,40,000 Metric Tonnes per year.
- 9. (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to extracted, permit number and date and its date of expiry, quantity of extraction permitted (if applicable). Area of extraction permitted, explosives used (if any), etc.
  - (ii) The lessee shall erect a warning board with danger sign regarding operation of the quarry, 100 metres away by the side of the road leading to it.
- The lessee shall fence the lease area before the commencement of the quarrying operation for preventing accidents by failing of human beings, animals, vehicles or any materials into



Copy of Lease



The Secretary, Tripangottoor Panchayat, Thalassery Taluk, Kannur District, Kerala Dt. 29/05/2017

Sub:- Environmental Clearance (E.C.) - Proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala - Submission of the E.C. Order - Compliance to the condition of Environment Clearance - Reg.

Respected Sir,

- This refers to the Environmental Clearance obtained to the proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala vide Order No. 1/KNR/2017/DEIAA dt. 22/05/2017.
- We hereby submit a self attested copy of the Environment Clearance Order No. 1/KNR/2017/DEIAA dt. 22/05/2017. This is in compliance to the condition of the E.C. Order.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours respectfully,

Jovin George

Encl: As above

For Secretary Iriprangottoor Grama Panchaya S. P. O. Kallikkandi-670 693

Copy of Acknowledgement





#### TEST REPORT

Test Report No: 20200612/R041	Date: 17.06.2020	Page 1 of 1

	CUSTON	MER DETAILS		
Customer Details	Name & Address	Mr. Jovin George  Madathinamattathil House  Palissery,Thalassery  Kannur District		
	Monitoring Site	Narikottumala		
	Survey No	275/1 A		
	Village	Thripangotoor		
Location of Site	Taluk	Thalassery		
	District	Kannur		
	State	Kerala		
Customer Reference				
	SAMP	LE DETAILS	340	
Source of Sample	Ambient Air	Sample Code	20200612/S041	
Location of Monitoring	South West Boundary	Sampled By	Laboratory	
Date of Monitoring	12.06.2020	Test Started On	15.06.2021	
Sample Received On	13.06.2020	Test Completed On	17.06.2021	
Humidity	81%	Sampling Procedure	SEAAL/ENL/GEN/SOP/02	

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM10)	IS 5182 Part 23: 2006 RA 2017	μg/m³	38,3	100
02	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	μg/m³	20.7	60.0
03	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	μg/m³	< 2.00	80.0
04	Nitrogen dioxide ( NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	μg/m³	< 2.00	80.0

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

For and on behalf of Standards Environmental & Analytical Laboratories



Authorized Signatory Rija Joseph Technical Manager

Standard<sup>5</sup> Environmental & Analytical Laboratories
Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.
K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43
Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of ambient air



#### **Annexure No. 10**



Sample Code Location of Monitoring

Date of Monitoring

#### TEST REPORT

20200612/S042

North East Boundary 12.06.2020

Test Report No: 20200612/R042		Date: 17.06.2020	Page 1 of 1	
	CUST	OMER DETAILS		
Customer Details	Name & Address	Mr. Jovin George  Madathinamattathil House  Palissery,Thalassery  Kannur District		
	Monitoring Site	Narikottumala		
	Survey No	275/1 A		
25 172 1874E	Village	Thripangotoor		
Location of Site	Taluk	Thalassery		
	District	Kannur		
	State	Kerala		
Customer Reference	•			
	SAI	MPLE DETAILS		
Source of sample		Ambient Sound Level		

DAYTIME	RESULT	NIGHTTIME	RESULT	
06.00 Hrs	37.9 dB (A)	23.00 Hrs	34.1 dB (A)	
07.00 Hrs	40.7 dB (A)	.00.00 Hrs	36.6 dB (A)	
08.00 Hrs	45.0 dB (A)	01.00 Hrs	37.3 dB (A)	
09.00 Hrs	48.5 dB (A)	02.00 Hrs	37.0 dB (A)	
10.00 Hrs	50.8 dB (A)	03.00 Hrs	37.7 dB (A)	
11.00 Hrs	54.0 dB (A)	04.00 Hrs	36.6 dB (A)	
12.00 Hrs	51.2 dB (A)	05.00 Hrs	38.4 dB (A)	
13.00 Hrs	50.4 dB (A)	RESULTS		
14.00 Hrs	50.8 dB (A)			
15.00 Hrs	51.2 dB (A)		49.3 dB (A)	
16.00 Hrs	52.4 dB (A)	Noise Level (Leg) Daytime		
17.00 Hrs	52.8 dB (A)	Noise Level (Leq) Daytime		
18.00 Hrs	47.3 dB (A)			
19.00 Hrs	43.8 dB (A)			
20.00 Hrs	39.9 dB (A)	Naine Level (Level Nich trime	36.9 dB (A)	
21.00 Hrs	39.4 dB (A)	Noise Level (Leq) Nighttime	30.9 db (A)	
22.00 Hrs	36.8 dB (A)			

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

For and on behalf of Standards Environmental & Analytical Laboratories



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

#### **Result of Noise level**







#### TEST REPORT

1	Test Pepert No. 20200612 /P042	Date: 17.06.2020	Page 1 of 1
1	Test Report No: 20200612/R043	Date: 17.00.2020	rage 1 of 1

	CUSTO	MER DETAILS			
Customer Details	Name & Address	Mr. Jovin George  Madathinamattathil House  Palissery, Thalassery  Kannur District			
	Monitoring Site	Narikottumala	Narikottumala		
	Survey No	275/1 A	275/1 A		
000:	Village	Thripangotoor			
Location Of Site	Taluk	Thalassery			
	District	Kannur			
	State	Kerala			
Customer Reference					
	SAM	PLE DETAILS			
Sample Code	20200612/S043	Sample Received On	13.06.2020		
Sample Name	Water	Sampling Procedure			
Sample Description	Stream Water	Sampling Location	(444)		
Identification By Customer		Sample Condition	Good		
Sampled On		Test Started On	15.06.2020		
Sampled By	Customer	Test Completed On	17.06.2020		

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5:2018		Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	< 0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017		6.76	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	94.0	***
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	66.3	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2019	mg/L	23.1	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	6.10	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	1.38	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	16.3	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2019	mg/L	31.2	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.12	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	1.63	200 (Max)
14	Total Coliform Bacteria	IS 15185 : 2016	****	Absent/100 ml	Absent
15	E coli	IS 15185 : 2016		Absent/100 ml	Absent

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

For and on behalf of Standards Environmental & Analytical Laboratories



Authorized Signatory Rija Joseph Technical Manage

Standard<sup>S</sup> Environmental & Analytical Laboratories
Approval & Recognition: "A" Grade Laboratory approved by Kerala State Pollution Control Board.
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**Result of Water** 







Receipts of CSR