# **COMPLIANCE REPORT**

April 2018 – September 2018

# **Quarry project of Mr. Jovin George**

Kannur District Kerala

Dt.31-12-2018

The Member Secretary District Environment Impact Assessment Authority (DEIAA), DEIAA, Kannur

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 2018 – September 2018) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you, Yours respectfully,

Mr. Jovin George

### **COMPLIANCE REPORT**

# то

# THE CONDITIONS

# OF

# ENVIRONMENTAL CLEARANCE ORDER

# NO: 01/KNR/2017/ DEIAA

# Dated: 22-05-2017

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### 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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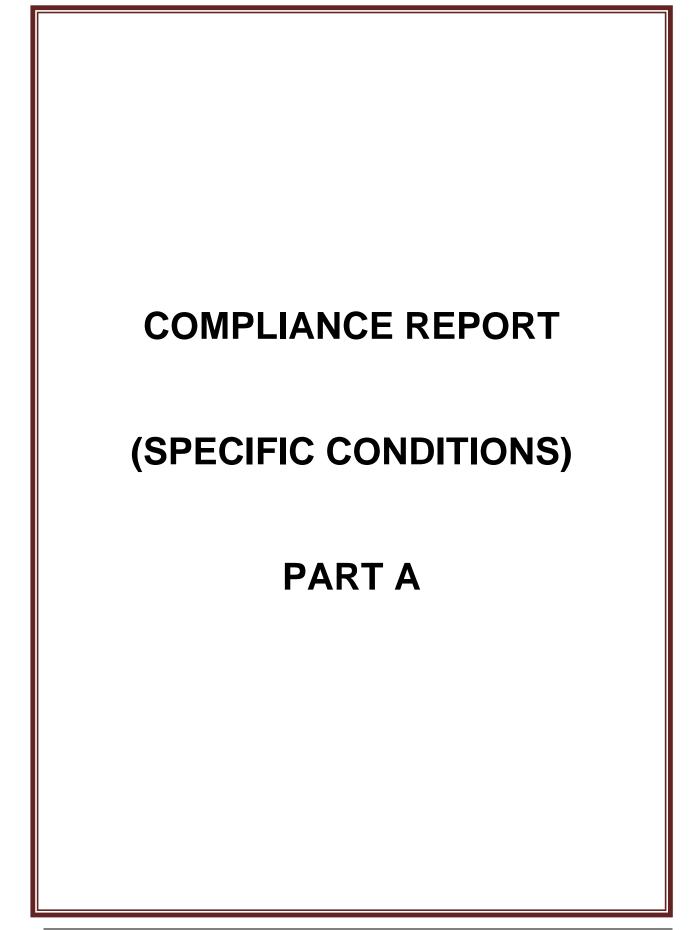
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#### INTRODUCTION

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.

The 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 2018 – September 2018** is being submitted.



#### 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 in the quarry the project proponent has appointed a mines manger as per the Mines Act 1952. 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 implemented

The project has been provided facilities like housing, food, water and sanitation to the workers. The project kept a First aid box in the project site. In association with Primary Health Centre of Local Self Government, the project proponent has conducted health check up for the labours.

#### 03 Controlled blasting should be practiced and blasting shall be 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 carrying out in controlled manner by using ordinary/electric delayed detonators. 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**.

# 04Plantation shall be done which includes a green belt of<br/>adequate width around the mining lease area excluding the<br/>rocky area, along roads, overburden dumps and non-Being

mineralized	area	by	planting	suitable	native	species	in	
consultation	with t	he lo	cal DFO/A	griculture	departm	ent.		

The green belt is important in the mining site. In order to that the project has taken the suggestion of agricultural department to plant the native species. The project proponent has started to plant various saplings in the project site to develop a green belt around the project area. Avenue tress also planted along the road side to minimise the dust emission.

05	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 land, the project has done fencing around the lease area. This was done by barbed metal wire.

07	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 project proponent has redrafted the CSR by including the ground water recharging techniques.

08	Appropriates sign boards should be displayed.	Complied
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The appropriate sign boards are installed in the project site. **Plate No. 9** shows the photograph of appropriate Sign boards.

09	The blasting time must be displayed and strictly adhered to.	Complied
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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 suppre	ession mechanism must be in place.	Complied
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The project 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.

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

A Separate small plot has demarcated to preserve the endemic species by the project proponent. Various saplings were started to plant by the project proponent in the project site.

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

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

13	The green belt shall be provides around the periphery.	being complied
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The project has provided Green belt around the project area. This will reduce air and noise pollution.

# 14Where the height of the bench formed during earlier workingsNotedexceeds the maximum each of the excavator engaged for work,<br/>such bench height shall be reduced from top to bottom.Noted

All mining activities are progressing under the supervision of qualified personals. To enhance safety and to make environment friendly quarrying, the excavation activity in the project is progressing by creating benches of 5m width x 5m height.

15Loose or hanging rock or mineral boulder on the side wall shallBeingbe dressed down before engaging persons for work at the<br/>bottom of the bench.Complied

To remove the loose or hanging mineral boulders on the side wall the project proponent deploys vehicles like JCB. The labours work on the bottom bench only after clearing such loose minerals form the side wall.

# 16Permanent boundary pillars should be fixed by the proponentcompliedbefore 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

18All waste dumps and topsoil dumps shall be properly stabilized<br/>by using coir mats or bio regeneration .proper drainage systemBeing<br/>Compliedshall be provides so the water is properly diverted away from<br/>the dump slopes with no disturbance to the stability of the<br/>slopes.Eing

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.

20Garland drains of at least 2m width shall be provided all alongNoted7.5 m buffer zone to divert the water from entering the quarryingslopes. These drains shall be cleaned every year before the<br/>monsoon season.Noted

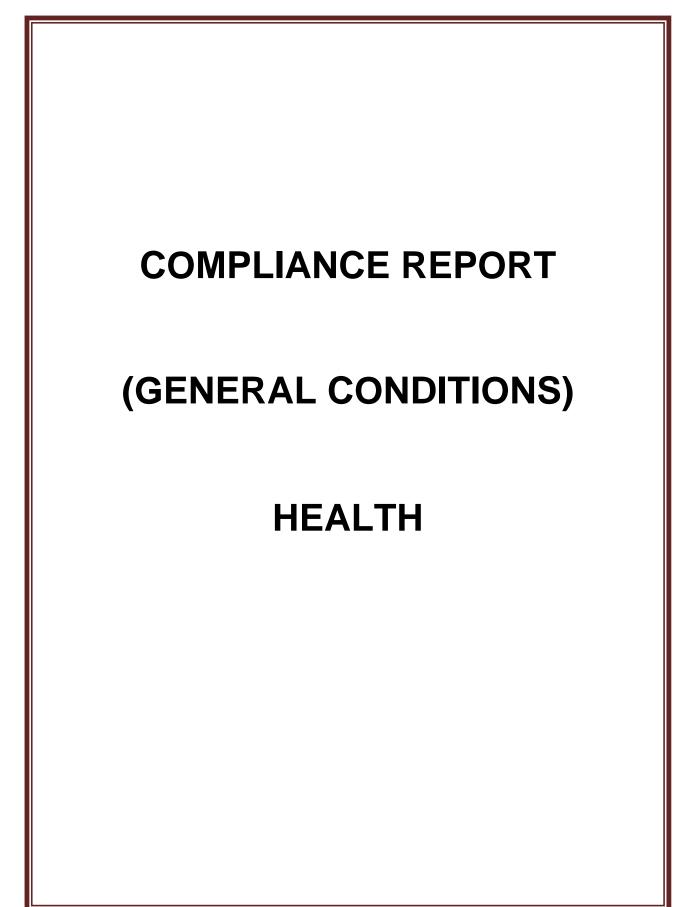
The project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes.

21The water from the garlands drainage shall directed to the siltWill besettling ponds. The clarified overflow from silt settling pondscompliedshall be directed to a Rain Water Harvesting (RWH) pond beforereleasing the clarified water to the natural watercourse.

The water from the garlands drainage will be directed to the silt settling ponds. The RWH pond is under construction. 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.

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

At the bottom of the slope the project will construct a retaining wall with stone rubbles. This will prevent sliding and slumping. This will be done at appropriate place in the mining area.



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

The project proponent is keeping first aid box in the project site. In order to use the first aid kit the training has been provided to selected labours.

02	Whole some drinking water should be provided.	Complied

In the project area pure drinking water is available at all time for everyone in the project site.

03 Premises should be mai	ntained as wet to suppress the dust.	complied	
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To reduce the emission of dust, the project proponent splashes water on haulage roads and loading and un loading point.

04	Sanitary type of latrines and urinals should be provided.	Complied
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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 labours 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

0	)6	'No Smoking' board should be exhibited according to COTPA	Complied
		Act.	

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.	Complied

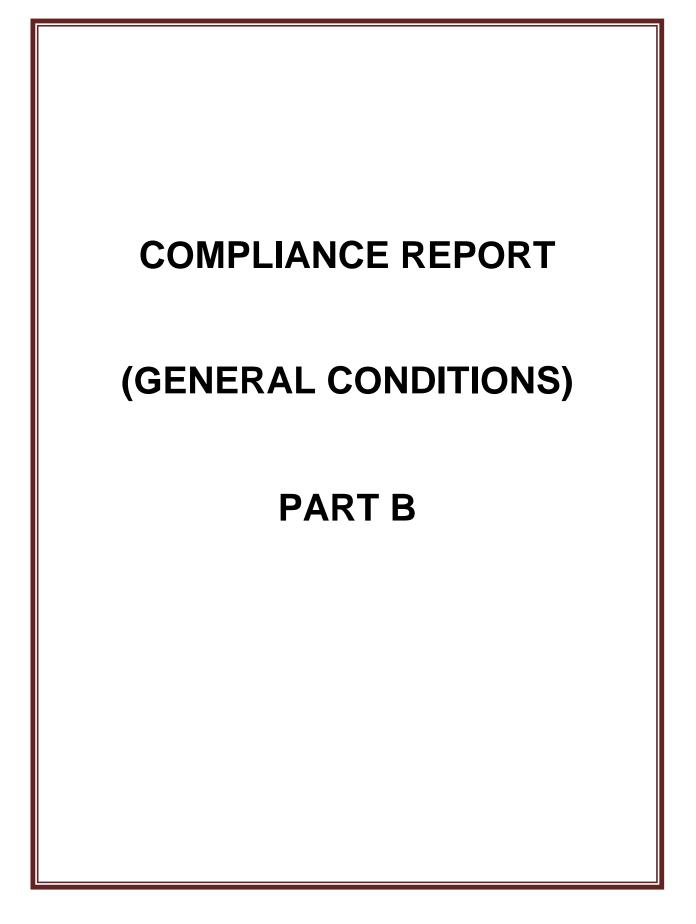
To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. The working time of quarry is at the 7 am to 6 pm.

08	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

One of the main sources of dust emission is roads The approach road has been properly maintaining by the project proponent to arrest the dust emission and easy transportation.



#### PART – B – GENERAL CONDITION

0	1	Rain	Water	Harvesting	capacity	should	be	installed	as	per	the	Being
		preva	iling pro	ovisions of K	MBR / KP	BR, unle	ess o	otherwise	spe	cified	d.	Complied

#### Compliance:

To collect rain water in mining area, the proponent is initiated to develop a rain water harvesting pond in the project site to collect rain water falling in the entire mining area even though it is not specified in KMBER/KPBR.

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

#### Compliance:

The EMC meeting convenes regularly to evaluate and monitor quarrying work in connection with the specific, health and general conditions stipulated in the Environmental Clearance (EC) order with Mr. Jovin George as head of the Environmental Monitoring Cell (EMC). The details of the EMC members is given in **Table No. 1** 

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

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

ſ	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:

As part of eco restoration and to prevent dust emission during transportation of materials, suitable avenue trees were planted 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 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	Will be	Э
	ensured as an essential part of the project.	Complied	k

#### Compliance:

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

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

#### Compliance:

The emission of dust is a major adverse effect of a mining industry. To prevent dust emission, sprinklers are installed in the project site. This help to suppress dust during the time summer season

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

#### Compliance:

Eco restoration is in an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining plan.

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	compli	ed
	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.		

#### Compliance:

The eco restoration plan prepared by the project will be executed in a good manner. The project started to plant various saplings in and around the project site. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal.

08	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 of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The details of CSR provided in the period of second half is mentioned in the **Table No.2.** Receipts of CSR is attached as **Annexure No. 12** 

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Medical Aid	Donation	George Vaduthalakkuzhi		1,000.00
	Donation	Nani Echilattachalil house, poyiloor		25,000.00
	Donation	Rajeevan , Kuniyil , poyiloor		75,000.00

#### Table No.2 – Detail of performed activities under CSR

Infrastructure	Donation For	Pathiakal bus shelter	Public	30,000.00
Development	Construction			
Social	Donation	Snehabhavan	Public	1,10,164.00
		Arangad		
	Donation	Snehalayam	Public	2,00,000.00
		Charitable Trust		
	Donation	Narikode Mala	Public	1,00,000.00
		Palliyar Muthapura		
		Devasthanam		
	Donation	CMRDF	Public	10,000.00
		Thripangottor Village		
	Donation	Shamsul Ulama	Public	2,000.00
		Students Assosiation		
		Total		5,53,164.00

**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 boundaryindicators (boards, stores, markings etc) shall be protected at alltimes and shall be conspicuous.

#### Compliance:

As part of demarcation and enhance safety, the project proponent 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.

10	Warning	alarn	ns ir	ndica	ating the tir	ne o	f blas	sting (to be do	one	at specific	complied	
	timings)	has	to	be	arranged	as	per	stipulations	of	Explosive		
	Departm	ent.										

#### Compliance:

The project has installed warning alarm in the quarry site as per the stipulation of Explosive department. This alarm can intimate the general public that the blasting is going to happen.

11Control measures on noise and vibration prescribed by KSPCBCompliedshould be implemented.

#### **Compliance:**

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

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

#### **Blast vibrations and control measures**

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

12Quarrying activities should be limited to day time as per KSPCBCompliedguidelines/specific conditions.

#### Compliance:

To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. The Quarrying time is from 7 am - 6 pm.

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

#### Compliance:

All blasting activities are supervising by a qualified person with the specified regulations of explosive department. The blasting is carrying out in controlled manner by using ordinary/electric delayed detonators. 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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#### Compliance:

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	Being
	that may arise during transportation of materials.	Complied

#### Compliance:

The project splashes water on the road to arrest the dust production during summer season. To contain dust emissions and for the trouble free transportation of materials, the project will tar the access road in the quarry site.

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:

Overburden is an inevitable byproduct of building stone quarry. There is no old quarry in the site for restoration. The overburden materials are stored within the site at designated place. This will be used to restore the exploited area in future.

Height of the benches should not exceed 5m, and width should notbe less than 5m, if there is no mention is the mining plan/specificComplied conditions.

#### Compliance:

To enhance safety and conserve environment, the project extracts the minerals by creating benches. The benches will not exceed 5 meters of height and the width of the bench will have minimum of 5 meters. The quarrying is carrying out as per mining plan submitted before the DEIAA.

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

#### Compliance:

The blasting is under the supervision of qualified person and the project proponent is using ordinary/electric delayed detonator for the blasting. Delayed blasting technology can reduce the incident of fly rock. Blasting during unfavourable weather conditions will be avoided. During blasting it will maintain optimum delay sequence and stem to column ratio to minimize the fly rock distance. The project is also assuring the maximum PPV is under 10 during the time of blasting.

ſ	19	Maximum depth of mining from general ground level at site shall not	Will be	е
		exceed 10m.	complied	k

#### Compliance:

Mining depth will not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

ſ	20	No mining	operations should be carried out at places having a slope	Noted	1
		greater	than 45 <sup>0</sup> .		

#### Compliance:

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

21	Acoustic	enclosures	should	be	provided	to	reduce	sound	Being		
	amplifications in addition to the provisions of green belt and hollow										
	brick env	velop for crus	shers so	that	the noise	leve	el is kept	within			
	prescribe	brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.									

#### Compliance:

To reduce the impact of sound to the labours in the unit, the project 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 is trying to enhance the vegetative cover by planting more tree saplings.

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

#### Compliance:

The project provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, glows, etc. to labours in the quarry site.

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

#### Compliance:

The proponent is very conscious to prevent all quarry waste to enter in the 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.	

#### Compliance:

To arrest the dust emission while transportation of materials, the project assures the trucks are covered before it leaving the project site.

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

#### Compliance:

As part of concurrent eco restoration, 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.

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

#### Compliance:

The project proponent is using the used oil as lubricant for machineries and other equipments. Disposal of spent oil from diesel engines will be sold only to the approved recyclers as specified under relevant Rules/Regulations.

2	7	Explosives should be stored in magazines in isolated place specified	complied	
		and approved by the explosives department.		

#### Compliance:

As per the stipulation of competent authority, the project has been storing the explosives in magazine. The magazine is situated in an isolated place specified and

approved by the explosives department. **Plate No 8** shows the photograph of the Magazine.

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.	

#### Compliance:

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. The distance of the nearest house is above 143meter form the quarry, the KSPCB condition is 100 meter.

29	100 m buffer distance should be maintained from forest boundaries.	Complied	
Cor	Compliance:		

The project 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 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 Complied	k
		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

32	In the case of any change(s) in the scope of the project, extent	Will be	е
	quantity, process of mining technology involved or in any way	complied	b
	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.		

#### Compliance:

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:

To enhance the safety and eco friendly mining, 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 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	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.

#### Compliance:

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

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

#### 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. At present the project does not have a website this will be created soon. The Acknowledgement of the clearance letter sent to the panchayth is attached as **Annexure No. 8** 

**37** The proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in 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.

#### Compliance:

The compliance report is being submitted along with the results of monitored data to the District Environmental Impact assessment Authority, Kannur, State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail. The monitoring result are 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.	

#### Compliance:

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 was installed. The photograph of the metallic board is attaché as **Plate No. 10** 

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 DEIAA, Kannur for Environment Clearance if the project wants to expand its scope. The mining is progressing as per submitted plan.

41	The project proponent shall ensure that no natural water course	Noted
	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.	

#### Compliance:

The project proponent will take all necessary safeguards to prevent contamination of stream as well as ground water. The project proponent will install additional clarifiers in the project site to prevent sediments and wastes from quarry site to enter in to the main stream. There is no stream originating from the mining area.

42	Monitoring of Ambient air Quality to be carried out based on the	Noted			
	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.				

#### Compliance:

The project proponent has monitored the ambient air quality as per National Ambient Air Quality Standard (NAAQS), during the time of appraisal of the project. The project proponent is intending to increase splashing of water and installation of sprinklers at loading, unloading and transfer points.

43	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<sup>o</sup>. 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.

#### Compliance:

To prevent the soil erosion, the top soil and overburden are stacked in 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	complied			
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.				
	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			

#### 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.

45	Effective safeguard measures such as regular water sprinkling	Being	
	shall be carries out in critical areas prone to air pollution and	complied	

having high levels of  $PM_{10}$  and  $PM_{2.5}$ , 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 complied and unloading and at transfer point should be provided and properly maintained.

#### Compliance:

To prevent dust emissions, the project proponent installed sprinklers in critical areas to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The water spraying has been carried out regularly to arrest the dust emission. The vehicle for water spraying will be properly marinated.

47Measures should be taken for control of noise levels below 85ComplieddBA in 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.

48 A separate Environmental Management Cell with suitable Complied qualified 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	Being			
	activities should be kept in separate account and should not be				
	diverted for other purpose. Year wise expenditure should be				
	reported to the State Environment Impact assessment authority				
	(SEIAA) office.				

#### Compliance:

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						Will	be
	monitor compliance of the stipulated conditions. The project					comp	lied	
	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 Noted				
	the 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 Noted data 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.
- 53 The SEIAA may revoke or suspend the order, for non Noted 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	Noted
	the 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 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	Noted
	mine lease period issued by the Govt. of Kerala, whichever is	
	earlier.	

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

ſ	57	The mining operation shall be restricted to above ground water	Will b	е
		table and is should not intersect ground water table.	complie	d

## Compliance:

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

58	All vehicle used for transportation and within the mine shall	Complied
	have "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.

ſ	59	Project proponent should obtain necessary prior permission of	Noted
		the 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 will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area entering in to the public drainage system.

# 61 Occupational health surveillance programe of the workers complied 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

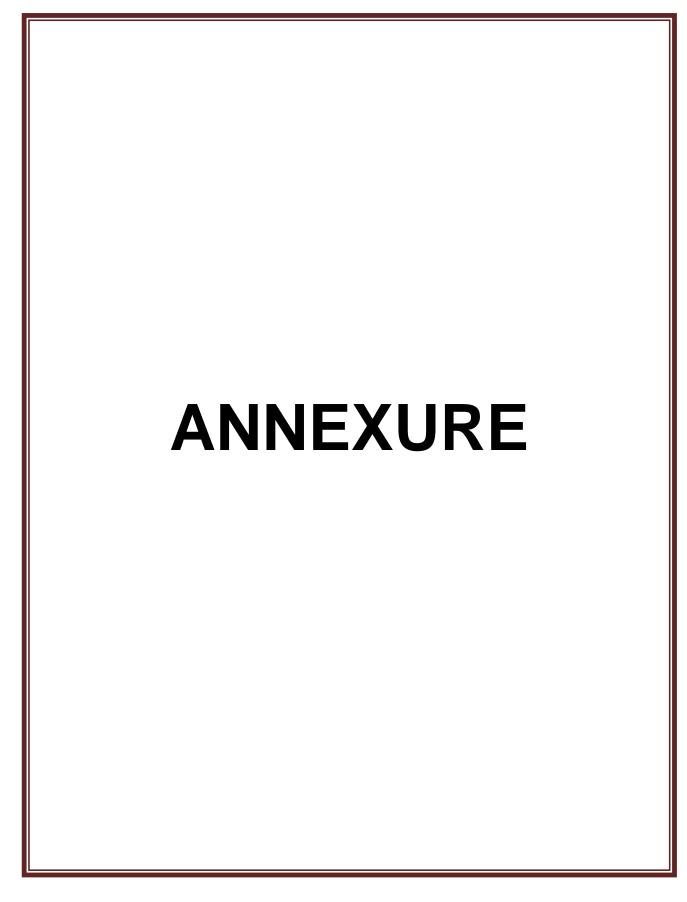


Sign Boards

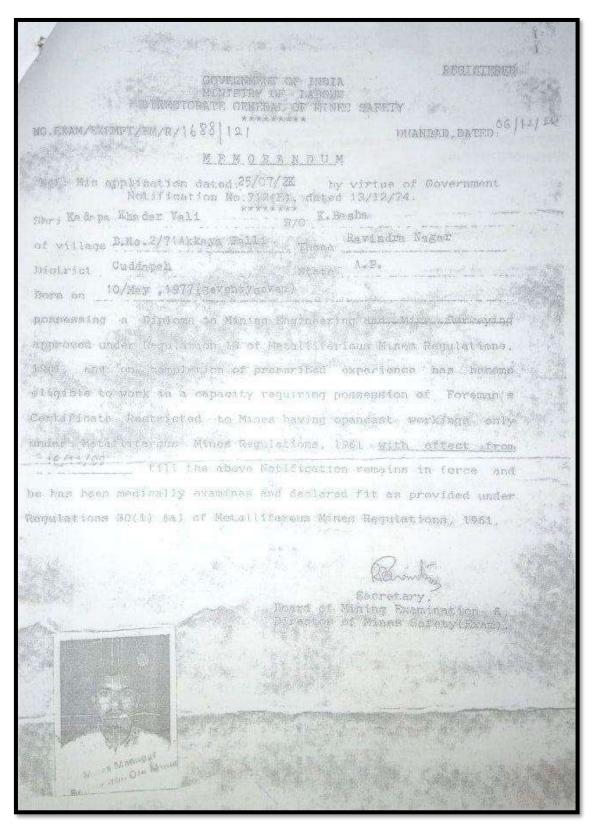




Metallic Board

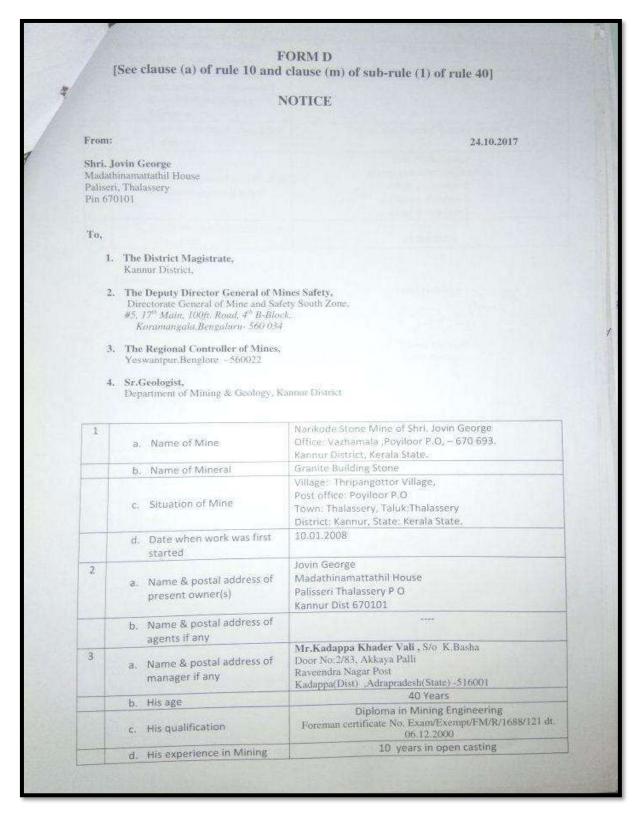


#### Annexure No.1



Certificate of licensed Person

#### Annexure No.2



	A State of the second s	
	Whether working are likely to be Extended below ground	Yes in future
5	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	a. 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
		(Jovin George) Mine Owner

Form D

### Annexure No.3

		-
		7
	KERALA STATE POLLU	TION CONTROL BOARD
La la sur		HON CONTROL BOARD
	). :PCB/KNR/ICE/1915/2014 ssue :23/05/2017	
	INTEGRATED CONSENT	TO OPERATE - RENEWAL
Consent	No: PCB/KNR/ICO-R/360/2017	
Ref : 1. (	Consent No:PCB/KNR/ICO/447/2014 Dated: 04	/11/2014
	pplication dated 17/05/2017.	11/2014.
variation stipulated	order(s) cited under reference are integral part of t therein and the following modifications/ addition	his renewal order and this order is subject to the conditions
I. GENE		
		Description
I. GENE	RAL	
I. GENE	RAL Items	Description Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE.
I. GENE	Items 1.4 OCCUPIER DETAILS	Description Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY,P.O., THALASSERY, KANNUR DT - 670101
I. GENE <u>S.No.</u> 1 2	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT	Description Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY,P.O., THALASSERY, KANNUR DT - 670101 40,00,000/-
I. GENE S.No. 1 2 3	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.1 VALIDITY	Description Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101 40,00,000/- 30/04/2020
I. GENE S.No. 1 2 3 4	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.1 VALIDITY I.12 FEE REMITTED/YEAR	Description Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY, P.O., THALASSERY, KANNUR DT - 670101 40,00,000/- 30/04/2020 6560/-
I. GENE S.No. 1 2 3 4 5	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.1 VALIDITY I.12 FEE REMITTED/YEAR I.13 TOTAL FEE REMITTED	Description           Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY, P.O., THALASSERY, KANNUR DT - 670101           40,00,000/-           30/04/2020           6560/-           19680/-           QUARRYING OF ROCK IN 3.7556
I. GENE S.No. 1 2 3 4 5 6	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.14 CAPITAL INVESTMENT I.12 FEE REMITTED/YEAR I.13 TOTAL FEE REMITTED I.16 ACTIVITY I.2 NAME AND ADDRESS OF THE ESTABLISHMENT	Description           Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101           40,00,000/-           30/04/2020           6560/-           19680/-           QUARRYING OF ROCK IN 3.7556           HECTARES           QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O.,
I. GENE S.No. 1 2 3 4 5 6 7	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.14 CAPITAL INVESTMENT I.12 FEE REMITTED/YEAR I.13 TOTAL FEE REMITTED I.16 ACTIVITY I.2 NAME AND ADDRESS OF THE ESTABLISHMENT	Description           Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101           40,00,000/-           30/04/2020           6560/-           19680/-           QUARRYING OF ROCK IN 3.7556           HECTARES           QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O.,
I. GENE S.No. 1 2 3 4 5 6 7	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.14 CAPITAL INVESTMENT I.12 FEE REMITTED/YEAR I.13 TOTAL FEE REMITTED I.16 ACTIVITY I.2 NAME AND ADDRESS OF THE ESTABLISHMENT	Description           Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101           40,00,000/-           30/04/2020           6560/-           19680/-           QUARRYING OF ROCK IN 3.7556           HECTARES           QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O.,
I. GENE S.No. 1 2 3 4 5 6 7	Items I.4 OCCUPIER DETAILS I.14 CAPITAL INVESTMENT I.14 CAPITAL INVESTMENT I.12 FEE REMITTED/YEAR I.13 TOTAL FEE REMITTED I.16 ACTIVITY I.2 NAME AND ADDRESS OF THE ESTABLISHMENT	Description           Sri. JOVIN GEORGE, MADATHINAMATTATHIL HOUSE, PALISERI, THALASSERY.P.O., THALASSERY, KANNUR DT - 670101           40,00,000/-           30/04/2020           6560/-           19680/-           QUARRYING OF ROCK IN 3.7556           HECTARES           QUARRY OWNED BY JOVIN GEORGE, PATHIKAL, POYILOOR.P.O.,

Copy of Consent form PCB

## Annexure No.4

-	
	Validity expires on 21.05.2022
	Proceedings of the District Environment Impact Assessment Authority
	<b>Kannur</b> 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.
	<ol> <li>Minutes of the 3<sup>rd</sup> meeting of DEAC held on17/03/2017.</li> <li>Minutes of the 5<sup>th</sup> meeting of DEAC held on 04/05/2017.</li> <li>Minutes of the 6<sup>th</sup> meeting of DEIAA held on 19/05/2017.</li> </ol>
	ENVIRONMENTAL CLEARANCE NO. 04/2017
	Sri.Jovin George, Madathinamattathil, Palissery, Thalassery.P.O. Kannur District ,Kerala vide his application received on 17/01/2017 , has sought 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 18 <sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) 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 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 tasks to set all out
	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 tand area consists of Page 1 of 5

Copy of Environmental Clearance

#### Annexure No. 5

	अन्तर्जनित एउए ए	ल. ई3   LICENCE		red from C G George joint M	
(वि	मफोटक निरास 2008 की अन	तसची 4 के भाग 1 के अब	गच्छेद 3(क) से (घ)	देखिए।)	
	(See article 3(a) to (d) of P	art 1 of Schedule IV of E	xplosives Rules, 20	08)	~
(ग) उपयोग के लिए एक समय Li	पर वर्ग 1,2,3,4,5 या वर्ग 7 icence to possess : (c) for us	के विस्फोटक या किसी 3 e,explosives of class 1, 2,	मैंगजीन में वर्ग 6 के 3,4,5,6 or 7 in a ma	विस्फोटक रखने के लिए अनु gazine	ज्ञप्ति
अनुजन्दित सं. (Licence No.) : E/SE/ वार्षिक फीस रुपए (Annual Fee Rs):	KL/22/18(E85231)				
I. Licence is hereby granted to				1001	
JOVIN GEORGE (अभिभोगी / P.O., Thalassery, Kannur, Town/	Occupier : JOVIN GEOR Village - Palisseri, District-	GE). Madathinamattathil KANNUR, State-Kerala,	House, Palisseri, T Pincode - 670101	halassery	
को अन्जण्ति अन्दत्त की जाती 2. अन्जण्तिधारी की प्रास्थिति   Stat				1 A.M.	
<sup>3</sup> अनुज्ञप्ति निम्नलिखित प्रयोजनों		possess for use of	Nitrate Mixture	Safety Pase, Electric and/or	Ordinary
Licence is valid only for the follo	wing purpose.	Detonators, - 9	344101 49 1014	2 3	
<ol> <li>अनुजप्ति विस्फोटकों के निम्नलि Licence is valid for the following</li> </ol>	खित किस्मों, प्रकार और मा gkinds and quantity of explo	isives: (帝) (a)		Realize Fatting	
	नाम और विवरण me and Description	वर्ग और प्रभाग	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time	
	Nitrate Mixture	Class & Division 2,0	0	100 Kg.	
2.	Safety Fuse	6,1	0	2000 Mtrs 1500 Nos.	
	nd/or Ordinary Detonators				imes
(দ্র) किसी एक कलैंडर मास में खरी (b) Quantity of explosives to be pur	द जाने वाले विस्फोटक की मा chased in a calendar month[ap	त्रा [अनुच्छद 3(ख) आर (ग plicable for licence under a	) क अधान अनुजाप्त nicle 3(b) and (c)] :	as refej : as a	imes bove.
<ol> <li>जिम्नलिखित रेखाचित्र (रेखाचित्र)</li> </ol>		ब्ट होती है। रेख	ाचित्र क्र. (Drawing	No.) E/SE/KL/22/18(E85231)	
The licensed premises shall conf	form to the following drawin	g(s): .	ताक (Dated) 10/07/	2017	
<ol> <li>अन्जप्ति परिसर निम्नलिखित ।</li> </ol>	पते पर स्थित हैं। The licen	sed premises are situated	at following addres	S:	Colonalla.
Survey No. 275/1A , बाम (Tow		Stota) K		लेस थाना (Police Station) : K (Pincode) 67	olavallool 0693
		(E-Mail)	फैक्स (		
<ol> <li>अनुजप्ति परिसर में निम्नलिखि The licensed premises consist of</li> </ol>		: Two cemented	magazines		
				रक विराम 2004 के उपनंधों ह	जी और
8					
8. अनुज्ञप्ति समय – समय पर यथ अतिरिक्त शर्तों और निम्नलिखि	ther willing to the more an	तार भयत्वत्व की जाती है	1 E		
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#### Annexure No. 6

ലൈസൻസ് നമ്പർ ബി3, 2741/2017	തീയുതി 26-09-2017
്തൃപങ്ങോട്ടും 1994 ലെ കേരളാ പഞ്ചായത്ത് രാ വകുപ്പുകളും അതേ തുട	തന്യത്ന 26-09-2017 ദ് ഗ്രാമ പഞ്ചായത്തിൽ നിന്നും ജ് ആക്ട് ( 1994 ലെ 13 ) 232, 233, 234, 254 എന്നീ ര്ന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ച് നല്കുന്ന & ഒ ലൈസൻസ്
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ജോവിൻ ജോർജ്ജ് മടത്തിനാമറ്റത്തിൽ, പാലിശ്ശേരി തലശ്ശേരി പി.ഒ
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	275/1എ നരിക്കോട്മല
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ഖനനം നടത്തുന്നതിന്
കെട്ടിട നമ്പരും വാർഡ് നമ്പരും	റിസ നമ്പർ 275 /1എ ത്യപങ്ങോട്ടൂർ വില്ലേജ്
ലൈസൻസ് കാലയളവ്	26-09-2017 മുതൽ 31-03-2018 വരെ
ഈടാക്കിയ ലൈസൻസ് ഫിസ്	2500/-11170110102451 തീയതി 26 -09-2017
ഹാജരാക്കിയ നിരാ ( നമ്പ നൽകി	സ് അനുവദിക്കുന്നതിനായി ക്ഷേപ പത്രങ്ങളുടെ വിശദാംശകൾ ർ, തിയ്യതി, കാലയളവ്, ിയ അധികാര സ്ഥാനം)
തീയതിയിലെ 01/KNR/2017 2. കേരള സംസ്ഥാന മലിന PCB/KNR/ICE/1915/2014 3. മൈനിംഗ് ആന്റ് ജിയോളജി നമ്പർ ലൈറ്റർ ഓഫ് എൽ 5. തൃപ്രങ്ങോട്ടൂർ വില്ലേജ് ഓഫ സർട്ടിഫിക്കറ്റ്. 6. തൃപങ്ങോട്ടൂർ പ്രാഥമിക ത സർട്ടിഫിക്കറ്റ്. 7. ക്വാറി നടത്താനുദേശിക്കുന്ന ന	ീകരണ നിയന്ത്രണ ബോർഡിന്റെ 23–05–2017 ം ഡിപ്പാർട്ടമെന്റിൽ നിന്നും 17–10–2016 ലെ 8825/M3/20 സ്പ്ലോസിവ് അധികൃതരുടെ അനുമതി. ിസറുടെ 13–07–2017 ലെ 26205974 നമ്പർ കൈവശവകാ ഉരോഗൃ കേന്ദ്രം ഹെൽത്ത് ഇൻസ്പെക്ടറുടെ ശുചിം സർവ്വേ മാപ്പ് വദ്ഗ്ധ്യം സംബന്ധിച്ചുള്ള സ്ക്ട്രിഫിക്കറ്റ്

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#### Annexure No.7

/	
	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.
2.	. Application dtd. 21/02/2017 from Shri. Jovin George, Madathinamattathil House, Palisseri, Thalassery. P. O, Kannur District – 670 101 . Letter No. DOC/M-5353/2016 dtd. 30/08/2016 from the Geologist, District Office, Kannur . 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
Thalas quarryi survey clearar	A quarrying lease is granted to Shri. Jovin George, Madathinamattathil House eri, Thalassery. P. O, Kannur District – 670 101 to quarry Granite (Building Stone) ove a of 3.7556 Hectares of land comprised in Re - Sy. No. 275/1A of Tripangottur Village issery Taluk, Kannur District for 12 (Twelve) years from the date of execution of the map issued by the Tahsildar, Thalassery and the approved Mining Plan and environmenta ince submitted by the applicant subject to the under mentioned conditions.
1. 2. 3. 4.	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 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 land revenue. The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
5.	The lessee shall also deposit an amount of Rs 10 000/ (Russee Tex T)
6.	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. The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
8. 7 s	The lessee shall not win and dispose of any type of dimension and decorative stones from he 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 be lessed to 1,40,000 Metric Tonnes per year.
9. (i)7 s e n q (i	The lessee shall erect a notice board in Malayalam at a prominent place with a minimum place 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, uantity of extraction permitted (if applicable). Area of extraction permitted, explosives used
0. TI	he lessee shall erect a warning board with danger sign regarding operation of the quarry, 00 metres away by the side of the road leading to it. he lessee shall fence the lease area before the commencement of the quarrying operation or preventing accidents by failing of human beings, animals, vehicles or any materials into
	×-

Copy of Lease

#### Annexure No. 8

Tripang	e <b>cretary,</b> gottoor Panchayat, sery Taluk, Kannur District,		Dt. 29/05/2017	
Sub:-	Environmental Clearan Re-Survey No. 275/1 Panchayat, Thalasser Submission of the E.C Environment Clearance	IA, Tripangottu ry Taluk, Kanr . Order – Compli	r Village, Tripango nur District, Keral	ottur a –
Respec	cted Sir,			
Pro Par	s refers to the Environmental oject at Re-Survey No. nchayat, Thalassery Ta .1/KNR/2017/DEIAA dt.2	275/1A, Tripango luk, Kannur Dis	ottur Village, Tripang	ottur
No.	hereby submit a self atte . 1/KNR/2017/DEIAA dt. 22/05 C. Order.			
Kindly	acknowledge the receipt of the	e same.		
Thanki	ing you,			
Yours	respectfully,			
Jovin (	George			
Encl:	As above			
Triprang	for Secretary jottoor Grama Panchaya Kallikkandi-670 693			

# Copy of Acknowledgement

# Annexure No. 9

	tanda Environmental	Monito	pring			NA	BL(TC-5402)		
			TEST	REPORT					
Test I	Report No: TC540	218000	000879F	Date: 26.12.	2018	P	age 1 of 1		
			CUSTOM	ER DETAILS					
				Mr. Jovin Geo	orge				
		Name & Address		Madathinamattathil House Palissery,Thalassery					
Custo	mer Details	Quin	No.	Kannur Distri 275/1 A		÷7			
	and a second by	Villa	vey No	Thripangotoo					
		Talı		Thalassery					
		Dist	rict	Kannur					
		Stat	e	Kerala	Kerala				
Custo	mer Reference			Test Request form dated 20.12.2018					
Monit	oring Site			Narikottumala					
			SAMPLE	DETAILS					
Sourc	e of Sample	Aml	bient Air Sample Code		TC540218000000879F				
Locati	on of Monitoring	Sou	th West Side	Sampled By		Laboratory			
Date o	of Monitoring	20.1	12.2018	Test Started On .		24.12.2018			
Samp	le Received On		12.2018	Test Completed On		26.12.2018			
Humi	dity	60 %	6	Sampling Pro	cedure	IS 5182 Part	: V & XIV		
			*						
SL NO	TEST PARAME	TER	TEST ME	TEST METHOD			NAAQ STANDAR		
01	Particulate matter	(PM10)	IS 5182 Part 23: 20	06 RA 2012	µg/m³	60.7	100		
02	Particulate matter	(PM2.5)	EPA 40 CFR Part 5	0 Appendix – L	µg/m³	19.5	60.0		
03	Sulphur dioxide (S	6O2)	JS 5182 Part 2: 200	1 RA 2012	µg/m <sup>3</sup>	< 2.00	80.0		
04	Nitrogen dioxide (	NO2)	IS 5182 Part 6: 200	6 RA 2012	$\mu g/m^3$	< 2.00	80.0		
			***End	of Report***					
19				1.000 1.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0	s Environmo	For a ental & Analytic	nd on behal al Laborator		
							Dija		
1	a) -					Rij	rized Signat		
							8 F		

Result of ambient air

#### Annexure No. 10

Stand: Environment	Monitoring	ST REPORT	NABL(TC-5402)			
Test Report No: TC54	0218000000881F	Date: 26.12.2018	Page 1 of 1			
	CUST	OMER DETAILS				
		Mr. Jovin George				
		Madathinamattathil House				
Customer Details	Name & Address	Palissery, Thalassery				
		Kannur District				
	Survey No	275/1 A				
	Village	Thripangotoor				
Location Of Site	Taluk	Thalassery				
	District	Kannur				
	State	Kerala /	·			
Customer Reference		Test Request Form Dated 20.12.201	8			
Monitoring Site		Narikottumala				
inomitoring bito	SAN	IPLE DETAILS				
Source of sample	On	Ambient Sound Level				
Sample Code		Ambient Sound Level TC540218000000881F				
		North East Side Boundary				
Location of Monitoring						
Date of Monitoring		20.12.2018	*			
DAYTIME	RESULT	NIGHTTIME	RESULT			
06.00 Hrs	35.1 dB (A) .	23.00 Hrs	32.7 dB (A)			
07.00 Hrs	37.6 dB (A)	00.00 Hrs	35.0 dB (A)			
08.00 Hrs	41.6 dB (A)	01.00 Hrs	35.7 dB (A)			
09.00 Hrs	44.9 dB (A)	02.00 Hrs	35.4 dB (A)			
10.00 Hrs	47.1 dB (A)	03.00 Hrs	36.1 dB (A)			
11.00 Hrs	50.0 dB (A)	04.00 Hrs	35.0 dB (A)			
12.00 Hrs	47.4 dB (A)	05.00 Hrs	36.7 dB (A)			
13.00 Hrs	46.7 dB (A)	RESULTS				
14.00 Hrs	47.1 dB (A)					
15.00 Hrs	47.4 dB (A)	_				
16.00 Hrs 17.00 Hrs	48.5 dB (A)		45.5 dB (A)			
17.00 Hrs 18.00 Hrs	48.9 dB (A) 43.8 dB (A)					
19.00 Hrs	43.8 dB (A) 40.5 dB (A)		1.4			
20.00 Hrs	36.9 dB (A)					
21.00 Hrs	36.5 dB (A)	Noise Level (Leq) Nighttime	35.4 dB (A)			
22.00 Hrs	34.0 dB (A)					
Χ.,	***	End of Report*** Standard <sup>s</sup> Environmental & A Rija Joseph Technical Manager	For and on beha Analytical Laborato			

**Result of Sound** 

### Annexure No. 11

	EnvironmentalS	Monitoring <u>TES</u>	ST REPO	RT		NABL(TC-5402)	
Test	Report No: TC54021800	00000880F	Date	26.12.2	018	Page 1 of 1	
_		CUSTO	MER DETAI	LS			
Custo	omer Details	Name & Address	Mr. J Mada Paliss	ovin Geor	tathil House ssery		
		Survey No	275/	1 A			
		Village	Thrip	angotoor			
Locat	ion of Site	Taluk	Thala	ssery	10		
		District	Kann	Kannur			
		State	Keral	/			
	omer Reference			-	orm dated 20.12	.2018	
Monit	toring Site			ottumala			
		1	LE DETAILS				
	ble Code			le Receive	ANTION CONTRACTOR OF A	24.12.2018	
Samp	ole Name			ling Proce			
	ble Description	Stream Water			1948/1942 (C	South East	
	ification By Customer					Good	
	oled On	100		Started Or		24.12.2018	
Samp	bled By	Customer	Test (	Completed	. On*	26.12.2018	
SL NO	TEST PARAMETER	TEST METHO	DD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)	
01	Colour	IS 3025 Part 4:1983 I	202102030404050010	Hazen	1.00	5.00 (Max)	
02	Odour	IS 3025 Part 5:1983 I			Unobjectionabl		
03	Turbidity	IS 3025 Part 10:1984		NTU	0.40	1.00 (Max)	
04	pH	IS 3025 Part 11:1983			6.50	6.50 - 8.50	
05	Total Dissolved Solids	IS 3025 Part 16:1984		mg/L	33.0	500 (Max)	
06	×			mg/L mg/L	10.1	200 (Max)	
07	Calcium (as Ca)		IS 3025 Part 40:1991 RA 2014		2.42	75.0 (Max)	
08	Magnesium (as Mg)		IS 3025 Part 46:1994 RA 2014 IS 3025 Part 32:1988 RA 2014		< 1.00	30.0 (Max)	
09			STATISTICS AND ADDRESS	mg/L	8.99	250 (Max)	
10	Total Alkalinity (as CaCO <sub>3</sub>	The base of the second s		mg/L	7.88	200 (Max)	
11 12	Iron (as Fe) Sulphate (SO4)	IS 3025 Part 53:2003 IS 3025 Part 24:1986		mg/L mg/I	0.19	1.00 (Max)	
12	Total Coliform Bacteria	IS 1622:1981 RA 201		mg/L	Absent/100 m	200 (Max) al Absent/100 ml	
			Mo				
14	E coli	IS 15185: 2016 ***E	nd of Repor		Absent/100 m	For and on beha tal & Analytical Laborato	
			lakshmi D obiologist		1.069	· Dup	

**Result of Water** 

Annexure No. 12

കവിത പ്രസ്സ്, മാനന്തവാടി 274385	exact
യ്യായ	സംഭാവനയായി നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു. <b>२</b> / ഗഗഗ/പസിഡണ്ഗത്തുകട്ടറി

	ജോർജ്ജ് വടുതലക്കുഴി
74385	ചികിത്സാ ധനസഹായ പണ്ട് മാനന്തവാടി
മാനന്തവാടി 274385	mmid. 60 Glo Sheli Jorn Groze
കവിത പ്രസ്സ്, മാ	എന്നവരിൽ നിന്നും
കവിത	സംഭാവനയായി നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു.
	2 1000/ (LIM) WITS / STOL (AS )

# **Receipts of CSR**