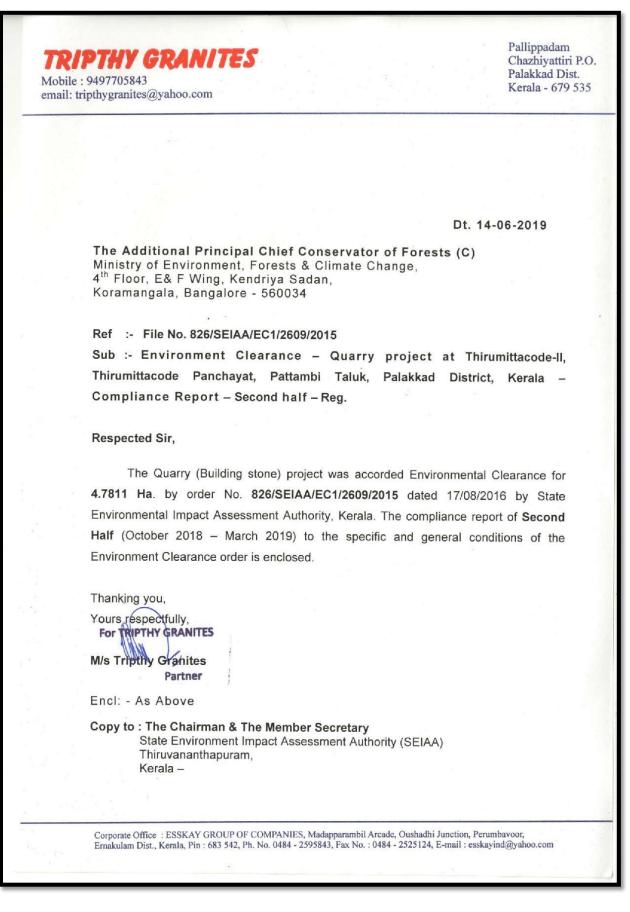
# **COMPLIANCE REPORT** OCTOBER 2018 – MARCH 2019

QUARRY PROJECT M/s TRIPTHY GRANITES palakkad district kerala



## **COMPLIANCE REPORT**

## ТО

## THE CONDITIONS

## OF

## ENVIRONMENTAL CLEARANCE ORDER

## NO: 826/SEIAA/EC1/2609/2015

## Dated: 17-08-2016

BΥ

## STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

## FOR

## **BUILDING STONE QUARRY**

## (MINOR MINERAL MINING) PROJECT

ΑΤ

## SURVEY NOS. 274, 275/1A3 THIRUMITTACODE-II, THIRUMITTACODE PANCHAYAT, PATTAMBI TALUK, PALAKKAD DISTRICT, KERALA

BY

## **M/S TRIPTHY GRANITES**

## PALAKKAD DISTRICT

## **KERALA**

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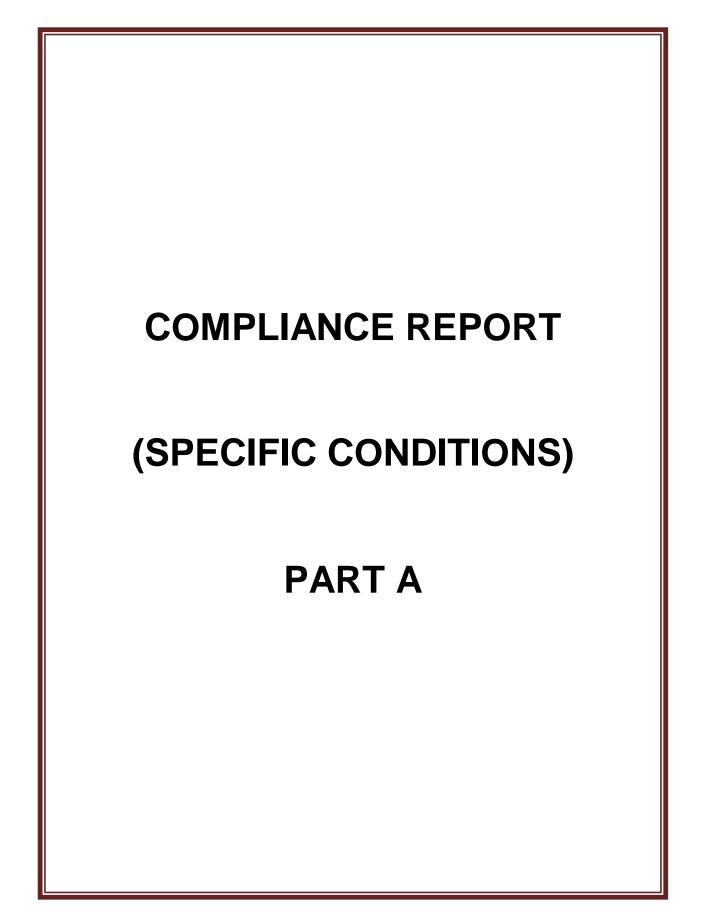
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## INTRODUCTION

The quarry project of **M/s Tripthy Granites** is situated at Survey Nos. 274, 275/1A3, Thirumittacode-II, Thirumittacode Panchayat, Pattambi Taluk, Palakkad District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 17-08-2016. As part of general condition No.37 of Environmental Clearance order, half yearly compliance report needs to be submitted by the project proponent. The compliance report of Second half to the specific conditions and general conditions of the Environmental Clearance order for the period of **October 2018 – March 2019** is being submitted.



## **PART - A – SPECIFIC CONDITIONS**

01Over burden should be stored in a planned manner in the<br/>designated place. It must be protective support and no soil be<br/>taken outside the lease area.complied

#### Compliance:

Over burden and top soil need to extract during the mining. The over burden and top soil is being stored in a planned manner in the designated place. No soil will taken outside the lease area and it is well protected. The topsoil will be kept I the project site for eco restoration.

02	The drainage from the quarry should be channeled through a	Being	
	settling tank.	complied	

#### Compliance:

The project is constructing settling tank to settle down the sediments at the bottom of the pond. There are natural drainages in the project site for channelization of storm water.

03	The approach road to the quarry from the main road is not	Being
	maintained at all. This road must be maintained in good	Complied
	motoroble condition by the proponent.	

#### Compliance:

The project is maintaining the approach road to the quarry from the main road.. At present the approach roads are motoroble condition with more than 7 meters of width.

04	Dust suppression mechanism must be in place	complied
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The project splashes haulage road and critical areas with the help of vehicle for suppress the emission of dust in the project site.

05	Fencing shall be provided at vulnerable points of the quarry to	Complied
	avoid accidents.	

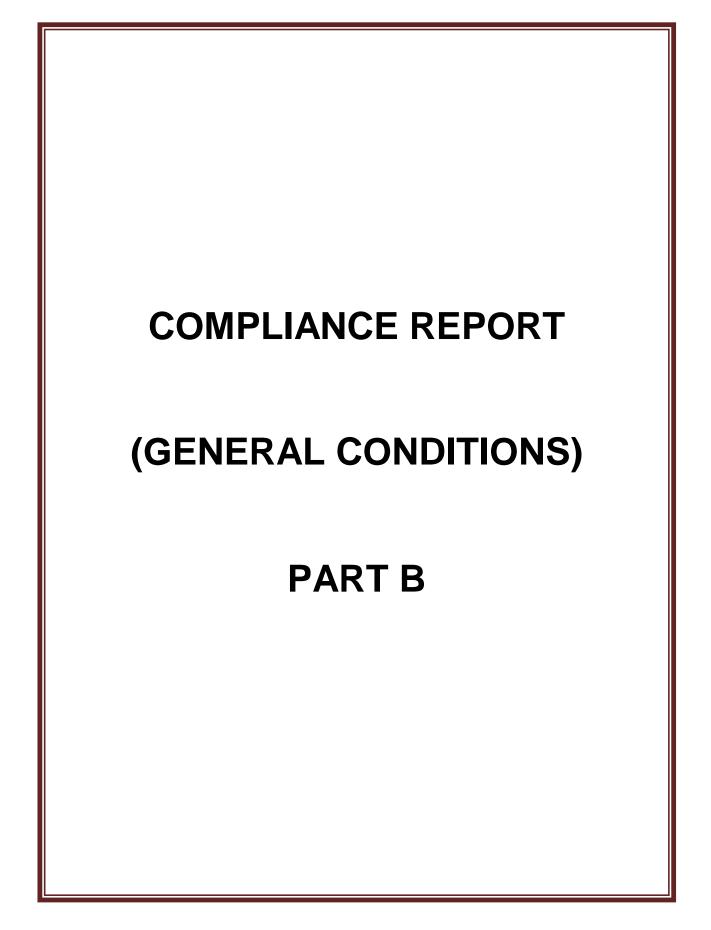
## Compliance:

The project has erected fencing around the lease area and at the critical area and at vulnerable points of the quarry to avoid accidents

Sign boards should be liked in the proper places	06	Sign boards should be fixed in the proper places	Complied
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## Compliance:

The sign boards are fixed in the project site in proper places to provide necessary warning to the labours and humans. The project is intending to fix sign boar where ever it is necessary.



## **PART – B – GENERAL CONDITIONS**

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

## Compliance:

During the time of monsoon season all runoff from the quarry site is collecting at the pond developed in the project site. The storm water flow is leading to the pond through garland drains. 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:

The Project Proponent has formed Environmental Monitoring Cell (EMC) with Mr. Benny Pathrose as head of the monitoring cell. The EMC meeting convened regularly to evaluate and monitor quarrying work in connection with the specific and general conditions stipulated in the Environmental Clearance (EC) order. The details of the monitoring cell are given in the **Table No.1**. The NABET accredited consultant helps the company to upkeep the environment friendly mining

SI. No.	Post		Name
1.	Head of the monitoring cell	:	Benny Pathrose
2.	Member		. Baby K V
3.	Member		Basil Varghese

### TABLE 1 - ENVIRONMENTAL MONITORING CELL (EMC)

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.	

The project proponent has planted suitable avenue trees along either side of the roads and parking area. There are natural vegetations including trees, shrubs, herbs and climbers along the road side. This vegetation is working as green belt against emitting dust. The details of vegetation are given below in **Table No.2**.

SI. No.	Scientific Name	Common Name	Family	Туре			
1.	Artocarpus heterophyllus	Plavu	avu Moraceae Tree				
2.	Nerium oleander	Arali	Arali Apocynaceae Small tree				
3.	Tectona grandis	Thekku	Verbenaceae Tree				
4.	Chromolaena odorata	Communist-pacha	Compositae	Shrub			
5.	Mangifera indica	Mavu	Anacardiaceae	Tree			
6.	Ziziphus oenopolia	Thodalli	Rhamnaceae	Climber			
7.	Swietenia macrophylla	Mahagany	Meliaceae	Tree			

## Table 2 - Details of the natural vegetation existing along the road side

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

## Compliance:

In order to reduce the consumption of electricity from the conventional sources, the project will install solar street lights to use maximum renewable energy to reduce electrical consumption from KSEB.

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

## Compliance:

To prevent dust emissions from the road while transportation of materials, the project does splashes the haulage road and critical areas with the help of tanker vehicles in regular intervals. The project also installed sprinklers in the project site.

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

Eco restoration will be done after closure of the mine. To achieve this aim, the project will plant various saplings in the project area and stacked the top soil and overburden in a designated place. 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.	

#### Compliance:

To save rain water, ten percent of the excavated pit area will be retained as water storage area. This will help to improve the ground water table. The remaining area will be reclaimed with stacked dumping of overburden and top soil. As part of its eco – restoration plan, the project will plant indigenous plant species that are eco – friendly on the reclaimed area

 08
 Corporate Social Responsibility (CSR) agreed upon by the proponent
 Complied

 should be implemented.
 Complemented
 Complemented

### Compliance:

The project proponent has carrying out many activities for social integration nd community development. The activities under Corporate Social Responsibility (CSR) activities are executed in the sector of Health, Housing. The project proponent is intending to carry out more activities under CSR for inclusive growth in the community.

Sectors	Activities	Amount spent in Rs.				
Health	Donation 15000					
Education	Donation	10000				
Local Community Developments	Donation	58500				
	Total	83500				

## Table 3 - Details of performed activities under CSR

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 per the stipulation of Department of Mining and geology and State Environment Impact Assessment Authority, the project has fenced around the mining area to prevent falling of animals/human being/dumping of garbage etc, the project has erected barbed metal wire fencing around the mining area with height of 5 ft.

10	Warning	alarn	ns ir	ndica	ating the tin	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:

To give warning to the labours and community people prior to the blasting in quarry, the project has installed warning alarms as per the stipulation of Explosive department in the quarry site.

I	11	Control	measures	on	noise	and	vibration	prescribed	by	KSPCB	Complied
		should b	be impleme	ntec	l.						

To reduce noise level in the project site, the project proponent has implemented mitigate masseurs. The major noise generating sources from the mining activity is working machineries, drilling, blasting and plying of vehicles. The following control measures are undertaken to bringing down the noise levels:-

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

### Blast vibrations and control measures

- Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- Ordinary delayed detonators are using for the blasting
- 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.

-	2	Quarrying	activities	should b	e limited	l to	day	time	as	per	KSPCB	complied	
		guidelines/	'specific co	onditions.									

### Compliance:

To reduce noise & air pollution and community nuisance, quarrying activities are limited to day time. The project proponent is strictly adhered the guideline of pollution control board regarding the time schedule of the quarrying activities. The quarry working time is 6.30am to 4.30 pm. This will help to limit the sound pollution.

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

## Compliance:

The project has appointed a license person to supervise and monitor all the activities carrying out in the project site. The blasting is done in controlled manner by using ordinary/electrical delayed detonators. All blasting activities are carrying out with the specified regulations of explosive department. This technology reduces the PPV value so as to the vibration.

14
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## Compliance:

The project has appointed Foreman and Second Class Manager in the project site to supervise/control the blasting operations for the extraction of granite building stones. The certificate of qualified person is attached as **Annexure No.6**.

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

### Compliance:

To reduce emission of dust through the vehicle movement, the access road from the entrance of project site to quarry is tarred and maintaining in good manner. The project is spraying water on the road to arrest the dust production during summer season.

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

There is no old quarry in the site for restoration so the overburden materials are stored at designated place within the project site. The project proponent has started concurrent eco restoration in the project site.

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

## Compliance:

To enhance safety and to promote eco friendly mining, the quarrying activity in the project site is progressing by creating benches of 5 meter width and 5 meter height. The formation of benches is under the direction and supervision of competent person.

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

## Compliance:

The project proponent is using ordinary detonators for blasting. Therefore the problem with fly rock in the community is not happened. The project is also assures the maximum PPV is under 10 with the controlled blasting operations.

I	19	Maximum depth of mining from general ground level at site shall not	Will	be
		exceed 10m.	complie	ed

## Compliance:

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

20No mining operations should be carried out at places having a slopeNotedgreaterthan 45°.

In the project site, there is no area with a slope greater than 45<sup>°</sup>. Therefore it is not necessary to explore from the slopes greater than 45<sup>°</sup>.

21	Acoustic	enclosures	should	be	provided	to	reduce	sound	Being	
	amplifications in addition to the provisions of green belt and hollow									
	brick envelop for crushers so that the noise level is kept within									
	prescribed	d standards g	iven by C	PCB	/KSPCB.					

## Compliance:

To reduce sound amplification a green belt is developed around the project site to reduce noise and air pollution. This helps the noise and sound level is kept within the prescribed standards. The labours in the project site are wearing ear plugs to reduce the impact of noise generating from the machines. There is no crusher unit is working near to the quarry site.

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

## Compliance:

To ensure the safety of workers in working site, the project proponent 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	Being
	around the core area to channelize storm water.	Complied

## Compliance:

The project proponent ensured that all storm water from the mining area is flowing in to the pond creating at mining area. The project proponent has initiated steps to create garland drains where it is necessary in the lower slopes of the project area for storm water management.

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 assures the trucks are covered before it leaving the project sites.

25	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:

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 comp	blied
	under relevant Rules/Regulations.	

## Compliance:

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

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

### Compliance:

As part of safety guidelines of explosive department, explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire.

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

The project proponent strictly adhered all guidelines issued by Kerala State Pollution Control Board. Adequate distance from the houses and other buildings are kept. 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 143 meter form the quarry.

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

### Compliance:

There is no forest near to the project site.

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

### Compliance:

The Project has obtained "*Consent to Operate*" (Renewal) from Kerala State Pollution Control Board. The copy of consent is provided in **Annexure 1**.

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

### Compliance:

The certificates obtained from concerned statutory authorities are enclosed in Annexure No.1, 2, 3, 4 & 5

Name of the Statutory		Name of the Statutory		Approval Number &	
approval		authority		Date	
Environmental	Clearance	State	Environmental	Impact	826/SEIAA/EC1/2609/20
order		Assess	sment Authority, K	erala	15
					Dt.17-08-2016

## TABLE NO.4 – DETAILS OF APPROVALS OBTAINED

"Consent to Operate"	Kerala State Pollution Control	PCB/PLKD/IC/CO-
(Renewal)	Board	4012/2016
		Dt. 18-10-2016
Explosive License	Ministry of Commerce &	E/SC/KL/22/1745(E8159
	Industry – Petroleum &	8)
	Explosives Safety Organization	
	(PESO)	
License for quarry operations	Panchayath	A7-183/18-19
		Dt. 03-05-2018
Movement Lease	Mining and Geology Dept.	1842/17
		Dt. 29-05-2017

32 In the case of any change(s) in the scope of the project, extent 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.

## Compliance:

At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India and approved mining plan. There is no change in the scope of the project. 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.

To improve the safety of mine and human life, the project will incorporate all possible measures in the mine industry, If the authority instructs to add additional safeguard measures subsequently.

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
- > The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.
- > Environment Protection Act, 1986
- > EIA Notification, 2006 / 2009

**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.

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

#### Compliance:

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.

37	The proponent shall submit six monthly reports on the status of	Complied
	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.	

The project proponent is bound to follow the conditions stipulated in the Environmental Clearance order. The compliance report of first half is being submitted to the Directorate of Environment and Climate Change, Govt. of Kerala and also to the Regional Office of MoEF&CC, Govt. of India both in hard copy as well as mail. The monitored data of Air, Water and Noise is attached as **Annexure No. 7, 8 & 9** 

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

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

## Compliance:

An assurance in the form of affidavit was already submitted to SEIAA Kerala. The project is scrupulously following the conditions mentioned in the EC order.

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.	

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 is thinking to expand its scope.

41The project proponent shall ensure that no natural water courseNotedand/or water resources shall be obstructed due to any mining<br/>operations. Necessary safeguard measures to protect the first order<br/>streams, if any originating from the mine lease shall be taken.Noted

## Compliance:

There is no natural water course from the upper slope of the project instead of storm water channel. There is no stream originating from the lease area. The project has created proper drainages for the storm water management.

42	Monitoring of Ambient air Quality to be carried out based on the	Complied
	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)	Being
	only for the topsoil shall be used for land reclamation and plantation.	complied
	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.

## 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 State Environment Impact Assessment Authority (SEIAA). The Environment Monitoring Cell will monitor the execution of eco restoration.

44	Catch drains and siltation ponds of appropriate size shall be	Being
	constructed around the mine working, mineral and OB dumps to	complied
	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 directed 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. The project proponent indenting to create de siltation chambers along with catch drains.

45 Effective safeguard measures such as regular water sprinkling shall **complied** 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 has installed sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The ambient air quality will be monitored with the help of an approved laboratory. The mechanisms will be properly marinated.

 47
 Measures should be taken for control of noise levels below 85 dBA in
 Noted

 the work environment.
 Item work environment
 Item work environment

## Compliance:

The main sound generating activities in the mining industries 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 qualified	Complied
	personal should be set up under the control of a senior executive,	
	who will report directly to the Head of the Organization.	

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project constitutes an Environment Monitoring Cell with Mr. benny Pathrose as head of the monitoring Cell. This Environment Monitoring cell monitors and evaluates the safeguard measures implemented in the project site.

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.	

## Compliance:

The project proponent could execute 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	complied
	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 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.

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.	

53	The SEIAA may revoke or suspend the order, for non implementation	Noted
	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.	

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

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

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

5	7	The mining operation shall be restricted to above ground water table	Will	be
		and is should not intersect ground water table.	compl	ied

The project will restrict its mining operations above the ground water table.

58	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 monitors the pollution level of all vehicles playing in the project site. This monitoring will be conducted only in authorized pollution checking 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.

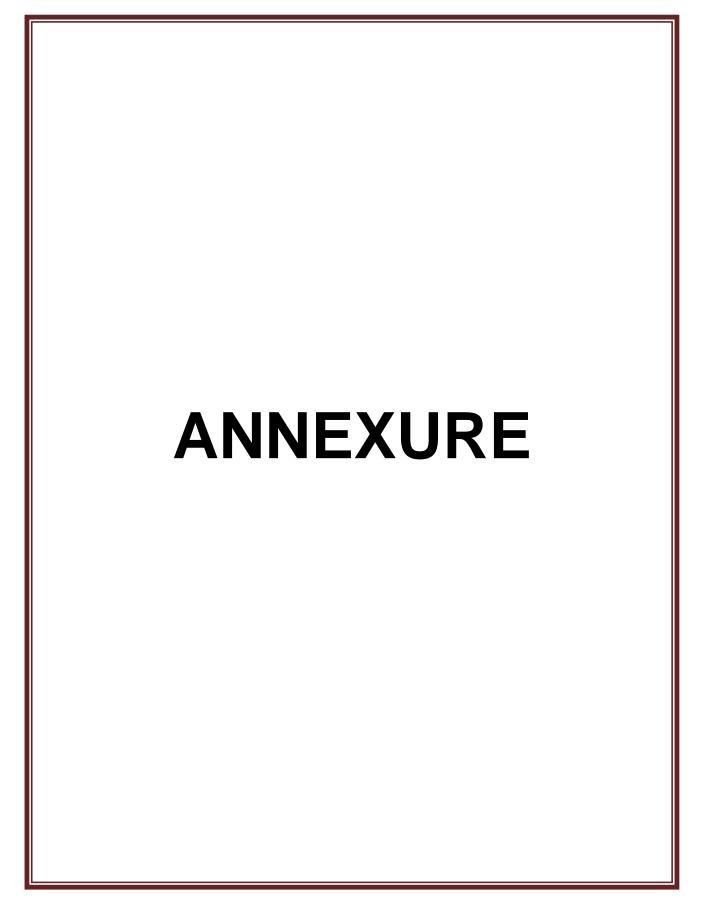
60	Regular monitoring of flow rates and water quality upstream and	Will be
	down streams of the springs and perennial nallahs flowing in and	complied
	around the mine lease area shall be carried out and reported in the	
	six monthly report to SEIAA.	

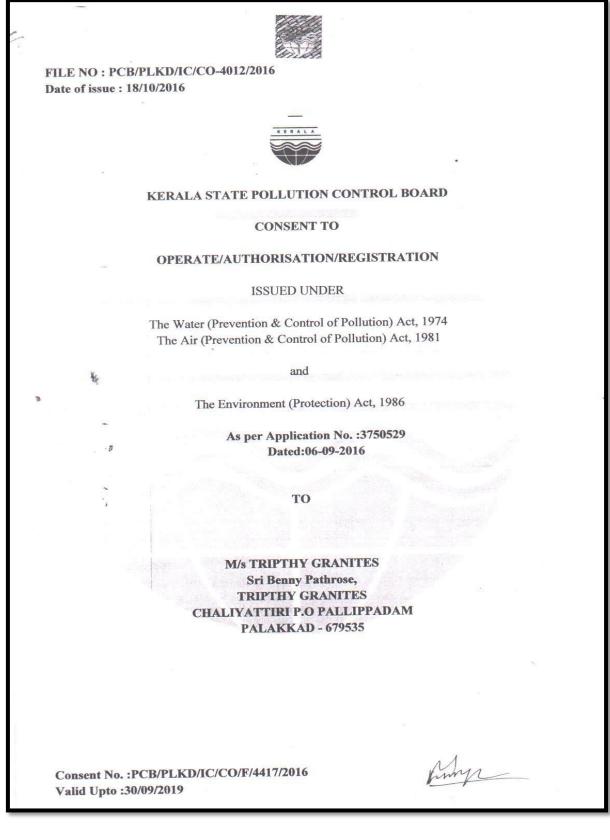
There is no stream or springs flowing in and around to the mine lease area. The project will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area entering in to the public drainage system.

61Occupational health surveillance program of the workers should be<br/>under taken periodically to observe any contractions due to exposure<br/>to dust and take corrective measures, if needed.Being<br/>complied

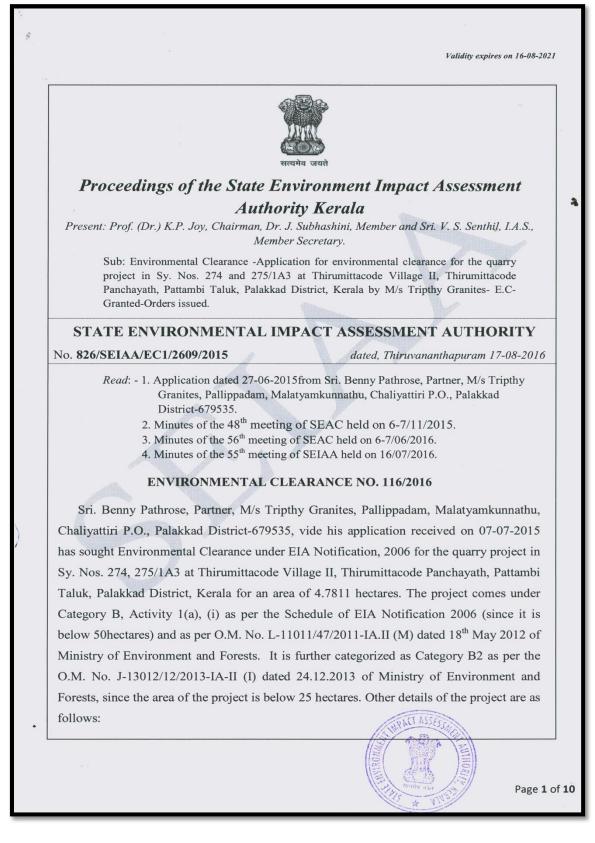
## Compliance:

The project proponent has initiated steps an occupational health surveillance program in association with Primary Health Center (PHC) of Kerala government for the labours working in mining area.





Copy of Consent form PCB



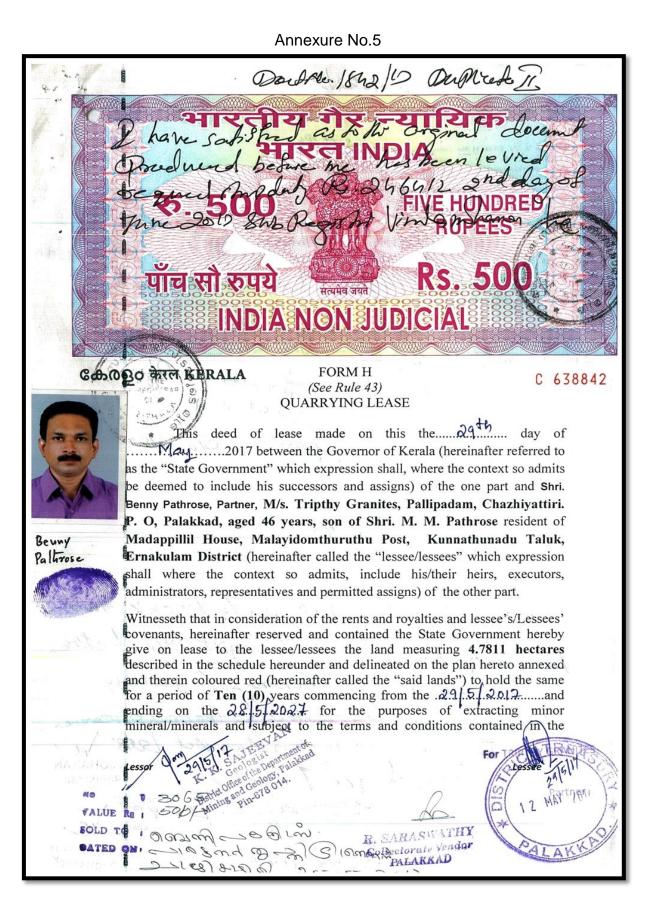
Copy of Environmental Clearance

			CE FORM LE 2	
	(विस्फोटक नियम,	<b>प्ते प्ररुप एल. ई3   LICE</b> ! 2008 की अनुसूची 4 के भाग 1 a) to (d) of Part 1 of Schedule I'	के अनुच्छेद 3(क) से (घ) देखि	
(ग) उपयोग	ग के लिए एक समय पर वर्ग 1,2,3,4		केसी मैगजीन में वर्ग 6 के वि	स्फोटक रखने के हि
अनुजन्दित सं. (Licence No.) : E/SC वार्षिक फीस रुपए (Annual Fee Rs)	/KL/22/1745(E81598)		3 1, 2,3,4,3,0 01 7 m a magaz	NT OF INDIA .
1. Licence is hereby granted to			PET	
Sh.Benny Pathrose,Partner (3 Peringode Via, Town/Village - 0	ाधिभोगी / Occupier : Sh.Benny Patl Chaliyattiri, District-PALAKKAD, S	nrose), M/s. Thripthy Granites tate-Kerala, Pincode - 679535	Pallipadam, Malayamkuma	th, Chażhiyasni Pr
को अन्ज्ञप्ति अन्दत्त की जाती			3	POL THENNAL
2. अन्ज्ञप्तिधारी की प्रास्थिति   Sta	and the second			ANY GIVES
<sup>3</sup> अनुजप्ति निम्नलिखित प्रयोजनौ				y Fuse, Ordinary Detonator, Electric Detonatory
	खित किस्मों, प्रकार और मात्रा के लि			
	g kinds and quantity of explosives: नाम और विवरण	(भ) (a) वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
2.	Nitrate Mixture Safety Fuse	2,0 6,1	0 0	400 Kg. 1000 Mtrs
3.	Ordinary Detonator	6,3	0	5000 Nos.
4.	Electric Detonators	6,3	0	5000 Nos.
<ul> <li>(ख) किसी एक कलैंडर मास में खरी</li> <li>(b) Quantity of explosives to be pure</li> </ul>	दे जाने वाले विरूफोटक की मात्रा [अनुच्छे chased in a calendar month[applicable fo	बेद 3(ख) और (ग) के अधीन अनुज r licence under article 3(b) and (c)	प्ति के लिए]  :	10 times as above,
निम्नलिखित रेखाचित्र (रेखाचित्रॉ The licensed premises shall confo अन्जप्ति परिसर निम्नलिखित प	) से अनुजप्त परिसर की पुष्टि होती i orm to the following drawing(s): ग्ते पर स्थित हैं। The licensed premi	है। ses <sup>i</sup> are situated at following add	. रेखाचित्र क्र. (Drawing No. दिनाक (Dated) 25/07/20	<ul> <li>b.) E/SC/KL/22/1745(E81598)</li> </ul>
Survey No. 274 , ग्राम (Town/V) जिला (District) दूरभाष (Phone)	illage) : Thirumittacode-2 (v), Patta PALAKKAD	mbi Taluk राज्य (State) ई. मेल (E-Mail)		पुलिस थाना (Police Station) : Chal कोड (Pincode) 679535 न (Fax)
अनुज्ञुप्ति परिसर में निम्नलिखित The licensed premises consist of		Two portable	nagazines of B(No.11) & B(	No.12) type fabricated by M/s. Industrial Explos
Drawings (showing sit 2. अनुज्ञप्ति प्राधिकारी व्य	यथा कथित रेखाचित्र (स्थान; सन्निर्मा e, constructional and other details) as दाररा हस्ता क्षरित इस अनुजज्ति की onal Conditions of this licence signed	stated in serial No. 5 above. शर्ते और अतिरिक्ति शर्ते।	र्शेत करते हुए)।	
	22 तक विधिमान्य रहेगी। This lice	nce shall remain valid till 31st o	av of March 2022.	
यह अनुजप्ति, अधिनियम या उस यदि अनुजप्त परिसर योजना या This licence is liable to be susper	के अधीन विरचित नियमों या अनुसू उससे संलग्न उपबंध में दर्शित विवर	यी V के आग 4 के प्रति निर्दिष्ट ण के अनुरूप नहीं पाए जाने म 16 Action Rules framed there ur	सेट-VII के अधीन तथा उपर र निलंबित या प्रतिसंहत की der or the conditions of this l	icence as set forth under Set VIII, wherever applicat
तारीख   The Date - 25/07/2017		2	संयुक्त मुख्य विस	फोटक नियंत्रक   Joint Chief Controller of Explo
		नवीनीकरण के पृष्ठांकन के	लिए स्थान	South Orcie, Che
		Space for Endorsement of		
नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry		अनुजापन प्राधिका Signature of lice	री के हस्ताक्षर और स्टाम्प nsing authority and stamp
	काननी चेतावनी : विस्फोटकों को गल	त ढंग से घलाने या उनका दरू	गयोग विधि के अधीन गंभीर	दांडिक अपराध होगा।
ŝ	<u>Statutory Warning</u> : Mishandling an	nd misuse of explosives shall e	onstitute serious criminal o	ffence under the law.
8				
				$\land$
			T.	उप मुख्य जिस्प्लोटक लिखेलक

Copy of Explosive

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ന ന വ ക		As per the Order Noof Hon. No: wp()No. 12122/2017(M) In addition to this court ord the following documents 1. State Environmental Impart As No: 826/SEIAA/ECI/2009/201 8. Pollution control concent to Or Order No: PCB/PLKD/IC/CO/F/ 3 Mining and geology letter No 4. Explosive lisence No: Elsc/k dt1 - 2stog12017 5. Blastor's (orth Scute of Con	High Court submit submit submit applicant submit submit cleanence is atd 17/08/2016 percetc/Authorisation/Registrate (4417/2016 2:5160/M3/2016 Dtd 15/6/16 CL/22/1745(E81599)				
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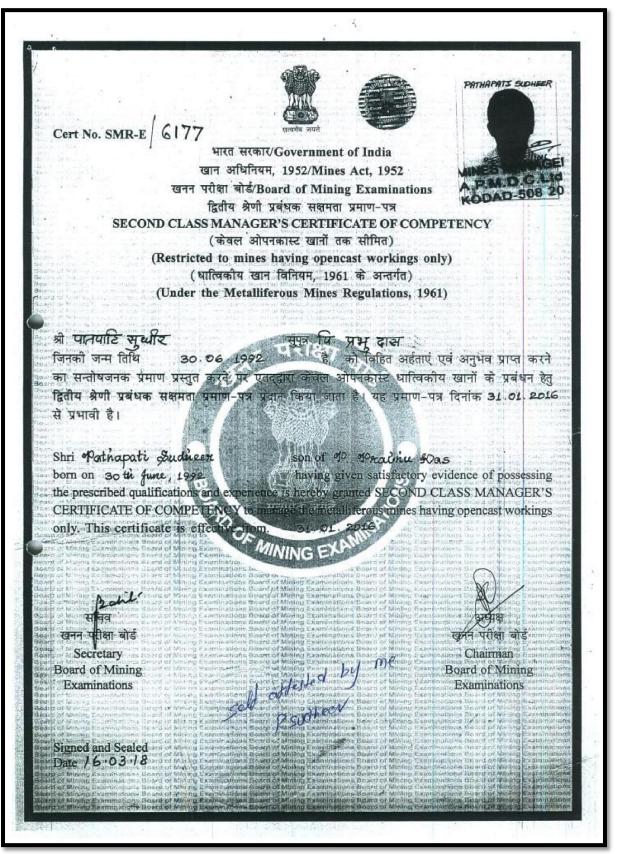
Copy of license from Gram Panchayat



Copy of Lease

Cert No. FUE / 1485 भारत सरकार/Government of India खान अधिनियम, 1952/Mines Act, 1952 खनन परीक्षा बोर्ड/Board of Mining Examinations फोरमैन सक्षमता प्रमाण-पत्र FOREMAN'S CERTIFICATE OF COMPETENCY (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961) श्री सोमा रमनजूला रेड्डी सुपुत्र सोमा वेंकट रेड्डी जिनकी जन्म तिथि है, को विहित अर्हताएं एवं अनुभव प्राप्त करने 08.03.1995 का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्द्वारा फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है । यह प्रमाण-पत्र दिनांक 06.07.2016 से प्रभावी है। Shri Soma Ramanjula Reddy son of Soma Venkata Reddy born on 08 th Marcu, 1995 having given satisfactory evidence of having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY. This certificate is effective from 06.07.2016 ਜ਼ੋਰ खनन परीक्षा बोर्ड खनन परीक्षा बोर्ड Secretary Chairman Board of Mining Board of Mining Examinations Examinations Signed and Sealed Date 04.01.17

Certificate of Second class manager



Certificate of Foreman

			TEST F	REPORT				
fest Re	port No: 20190216	/R013		Date: 20.02.201	19	I	Page 1 of 1	
		_	CUSTOME	R DETAILS	ritan			
				M/s Tripthy Gran Pattambi,	intes			
Custome	er Details	Name	& Address	Palakkad District				
		Cumun	· No					
		Survey		274,275/1A3 Thirumittacode II	I			
		Panch		Thirumittacode				
Location	of Site	Taluk		Pattambi				
		Distric	t	Palakkad				
		State		Kerala				
Custom	er Reference			Test Request form	m dated 16	.02.2019		
			SAMPLE	DETAILS				
Source	of Sample	Ambie	nt Air	Sample Code		2019021	6/S013	
	of Monitoring	South	side boundary	Sampled By		Laborato	ry	
	Monitoring	16.02	2019	Test Started On	14	17.02.2019		
Sample	Received On	17.02	2019	Test Completed 0	On	20.02.20	19	
Humidit	y	55%		Sampling Proced	lure	IS 5182	Part V & XIV	
SL NO	TEST PARAME	TER	TEST N	NETHOD	UNIT	RESULTS	NAAQ STANDARD	
01 Particulate matter (PM <sub>10</sub> ) IS 5182 Part 23: 2006 RA 2017 μg/m <sup>3</sup> 56.7 100								
02         Particulate matter (PM <sub>2.5</sub> )         EPA 40 CFR Part 50 Appendix - L         μg/m <sup>3</sup> 23.7         60.0					60.0			
03	Sulphur dioxide (S	O <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017		µg/m³	< 2.00	80.0	
04	Nitrogen dioxide ( N	NO2)	IS 5182 Part 6: 2	2006 RA 2017	$\mu g/m^3$	< 2.00	80.0	
			***End	of Report***				
				Standards	Environme		and on behal ical Laborator	
							<b>b</b> ': 1	
						A	Vige norized Signat	
							ija Josep	
1						Tech	nical Man	
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East Report No: 20190218/ R014         District         District           CUSTOMER DETAILS         Patambi, Palakkad District         Palakkad District           Sustomer Details         Name & Address         Patambi, Palakkad District           Survey No         27-4,275/1A3           Village         Thirumitacode II           Panchayath         Thirumitacode           Taluk         Patambi           District         Palakkad           Source of Sample         Ambient Sound Level           Source of Sample         Ambient Sound Level           Sample Code         20190216/8014           Location of Monitoring         16.02.2019           Date of Monitoring         33.1 dB (A)           03.00 Hrs         343.4 dB (A)           07.00 Hrs		1001	REPORT				
Name & Address         M/s Tripthy Granites           Patambi, Patambi, Patambi, Patambi, Patakad District         Patambi, Patakad District           Survey No         274,275/1A3           Village         Thirumittacode II           Panchayath         Thirumittacode           Taluk         Patatambi           District         Palakad           State         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         Is 9989:1981 RA:2008           Method         Is 9989:1981 RA:2008           DAYTIME         RESULT         NIGHTTIME         RESULT           DAYTIME         45.2 dB (A)         01.00 Hrs         33.3 dB (A)           09.00 Hrs         45.2 dB (A)         02.00 Hrs         33.4 dB (A)           03.00 Hrs         45.2 dB (A)         02.00 Hrs         33.6 dB (A)           01.00 Hrs         51.1 dB (A)         02.00 Hrs         33.6 dB (A)           13.00 Hrs         51.5 dB (A)         05.00 Hrs         49.6	fest Report No: 20190	216/R014	Date: 20.02.2019	Page 1 of 1			
Bustomer Details         Name & Address         Pattambi, Palakkad District           Survey No         274,275/1A3           Village         Thirumittacode II           Panchayath         Thirumittacode           Panchayath         Thirumittacode           Taluk         Pattambi           District         Palakkad           State         Kerala           Customer Reference         SAMPLE DETAILS           Source of Sample         Ambient Sound Level           Source of Sample         Ambient Sound Level           Source of Monitoring         West side Boundary           Date of Monitoring         Uset Side Boundary           Date of Monitoring         Is 9989:1981 RA:2008           Date of Monitoring         Is 9989:1981 RA:2008           DAYTIME         RESULT         NIGHTTIME         RESULT           DAYTIME         RESULT         NIGHTTIME         38.3 dB (A)           09:00 Hrs         43.1 dB (A)         02:00 Hrs         38.3 dB (A)           09:00 Hrs         51.1 dB (A)         02:00 Hrs         38.4 dB (A)           10:00 Hrs         51.1 dB (A)         03:00 Hrs         38.3 dB (A)           10:00 Hrs         51.1 dB (A)         03:00 Hrs         40.1 dB (A)		CUSTOM	ER DETAILS				
Name & Address         Palakkad District           Justomer Details         Survey No         274,275/1A3           Justomer Reference         Thirumittacode II           Panchayath         Thirumittacode           Taluk         Pattambi           District         Palakkad           State         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Sample         Ambient Sound Level           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           Color Hrs         38.1 dB (A)         23.00 Hrs           06.00 Hrs         38.1 dB (A)         00.00 Hrs         38.3 dB (A)           06.00 Hrs         45.2 dB (A)         00.00 Hrs         38.3 dB (A)           06.00 Hrs         38.1 dB (A)         23.00 Hrs         38.3 dB (A)           06.00 Hrs         38.1 dB (A)         00.00 Hrs         38.3 dB (A)           06.00 Hrs         38.1 dB (A)         00.00 Hrs         38.4 dB (A)           08.00 Hrs         45.2 dB (A)         00.00 Hrs <td< td=""><td></td><td></td><td></td><td></td></td<>							
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Description         Thirumittacode II           Village         Thirumittacode           Panchayath         Thirumittacode           Taluk         Pattambi           District         Palakkad           State         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Source of Monitoring         Vest side Boundary           Location of Monitoring         Uses side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           Method         IS 9989:1981 RA:2008           DAYTIME         RESULT         NIGHTTIME           DAYTIME         RESULT         NIGHTTIME           06:00 Hrs         38.1 dB (A)         23.00 Hrs           06:00 Hrs         45.2 dB (A)         01.00 Hrs           06:00 Hrs         45.2 dB (A)         00.00 Hrs           09:00 Hrs         45.2 dB (A)         00.00 Hrs           09:00 Hrs         45.2 dB (A)         03.00 Hrs           10:00 Hrs         51.1 dB (A)         03.00 Hrs           10:00 Hrs         51.1 dB (A)         03.00 Hrs           13:00 Hrs         51.1 dB (A)			Palakkad District				
Name         Name         Panchayath       Thirumittacode         Panchayath       Thirumittacode         District       Palakkad         State       Kerala         Customer Reference       SAMPLE DETAILS         Source of Sample       Ambient Sound Level         Sample Code       20190216/S014         Location of Monitoring       West side Boundary         Date of Monitoring       West side Boundary         Date of Monitoring       NIGHTTIME       RESULT         NIGHTTIME       RESULT         DAYTIME       RESULT       NIGHTTIME       RESULT         DAYTIME       RESULT       NIGHTTIME       RESULT         DAYTIME       RESULT       NIGHTTIME       RESULT         DAYTIME       RESULT       NIGHTTIME       RESULT         DAYTIME       RESULT       NIGHTTIME       RESULT		Survey No	274,275/1A3				
Patient again         Pattambi           Taluk         Pattambi           District         Palakkad           State         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Date of Monitoring         Is 9989:1981 RA:2008           Wethod         IS 9989:1981 RA:2008           Code Sample         Adv.9 dB (A)           DAYTIME         RESULT           NIGHTTIME         RESULT           Objool Hrs         38.1 dB (A)         23.00 Hrs           06.00 Hrs         38.1 dB (A)         00.00 Hrs           07.00 Hrs         40.9 dB (A)         00.00 Hrs         38.3 dB (A)           09.00 Hrs         51.1 dB (A)         00.00 Hrs         38.3 dB (A)           00.00 Hrs         51.3 dB (A)         05.00 Hrs         38.3 dB (A)           13.00 Hrs         51.1 dB (A)         03.00 Hrs         39.4 dB (A)           13.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A)           13.00 Hrs         53.1 dB (A)		Village	Thirumittacode II	New York N			
Tatuk         Fatakkad           District         Palakkad           State         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           Method           DAYTIME           RESULT         NIGHTTIME           DAYTIME         RESULT           NIGHTTIME		Panchayath	Thirumittacode				
District         Kerala           Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           Method         IS 9989:1981 RA:2008           DayTIME         RESULT         NIGHTTIME           DAYTIME         RESULT         NIGHTTIME           06.00 Hrs         38.1 dB (A)         23.00 Hrs           06.00 Hrs         38.1 dB (A)         00.00 Hrs           09.00 Hrs         48.7 dB (A)         00.00 Hrs           09.00 Hrs         48.7 dB (A)         02.00 Hrs           11.00 Hrs         51.1 dB (A)         03.00 Hrs         38.3 dB (A)           12.00 Hrs         51.5 dB (A)         05.00 Hrs         38.3 dB (A)           13.00 Hrs         51.1 dB (A)         05.00 Hrs         49.6 dB (A)           14.00 Hrs         51.1 dB (A)         05.00 Hrs         40.1 dB (A)           15.00 Hrs         53.1 dB (A)         05.00 Hrs         49.6 dB (A)           16.00 Hrs         53.1 dB (A)         05.00 Hrs         40	Location of Site	Taluk	Pattambi				
Date         Test Request Form dated 16.02.2019           SAMPLE DETAILS           Source of Sample         Ambient Sound Level           Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           DAYTIME           RESULT         NIGHTTIME           DAYTIME         RESULT           06.00 Hrs         38.1 dB (A)           07.00 Hrs         40.9 dB (A)           00.00 Hrs         38.3 dB (A)           09.00 Hrs         45.2 dB (A)           01.00 Hrs         38.6 dB (A)           02.00 Hrs         38.6 dB (A)           03.00 Hrs         39.4 dB (A)           04.00 Hrs         51.1 dB (A)           10.00 Hrs         51.5 dB (A)           11.00 Hrs         51.5 dB (A)           15.00 Hrs         51.1 dB (A)           13.00 Hrs         51.1 dB (A)           13.00 Hrs         51.3 dB (A)           13.00 Hrs         51.5 dB (A)           15.00 Hrs         51.5 dB (A)           16.00 Hrs         53.1 dB (A)           19.00 Hrs         51.6 dB (A)		District	Palakkad				
Customer Reference         Test Request Form dated 16.02.2019           Source of Sample         Ambient Sound Level           Source of Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           DAYTIME         RESULT           NIGHTTIME         RESULT           06.00 Hrs         38.1 dB (A)           07.00 Hrs         40.9 dB (A)           09.00 Hrs         48.7 dB (A)           09.00 Hrs         48.7 dB (A)           09.00 Hrs         51.1 dB (A)           09.00 Hrs         54.2 dB (A)           11.00 Hrs         51.5 dB (A)           12.00 Hrs         51.5 dB (A)           13.00 Hrs         51.5 dB (A)           15.00 Hrs         51.5 dB (A)           15.00 Hrs         51.5 dB (A)           16.00 Hrs         53.1 dB (A)           15.00 Hrs         53.1 dB (A)           15.00 Hrs         53.1 dB (A)           16.00 Hrs         53.1 dB (A)           16.00 Hrs         53.2 dB (A)           16.00 Hrs         53.2 dB (A)           15.0 dB (A)         05.00 Hrs		State	Kerala				
SAMPLE DETAILS         Source of Sample       Ambient Sound Level         Sample Code       20190216/S014         Location of Monitoring       West side Boundary         Date of Monitoring       16.02.2019         Method       IS 9989:1981 RA:2008         DAYTIME       RESULT         NIGHTTIME       RESULT         06.00 Hrs       38.1 dB (A)       23.00 Hrs         07.00 Hrs       40.9 dB (A)       00.00 Hrs       38.3 dB (A)         09.00 Hrs       45.2 dB (A)       01.00 Hrs       39.0 dB (A)         09.00 Hrs       48.7 dB (A)       02.00 Hrs       39.4 dB (A)         10.00 Hrs       54.2 dB (A)       05.00 Hrs       38.3 dB (A)         11.00 Hrs       54.2 dB (A)       04.00 Hrs       38.3 dB (A)         12.00 Hrs       51.5 dB (A)       05.00 Hrs       40.1 dB (A)         13.00 Hrs       52.7 dB (A)       RESULTS       49.6 dB (A)         19.00 Hrs       44.0 dB (A)       Noise Level (Leq) Daytime       49.6 dB (A)         19.00 Hrs       39.6 dB (A)       Noise Level (Leq) Nighttime       38.5 dB (A)         19.00 Hrs       39.6 dB (A)       Noise Level (Leq) Nighttime       38.5 dB (A)         19.00 Hrs       39.6 dB (A) <td>Quatamar Dafaranca</td> <td>A MANAGARAN AN</td> <td>Test Request Form dated 16.02.</td> <td>2019</td>	Quatamar Dafaranca	A MANAGARAN AN	Test Request Form dated 16.02.	2019			
Source of Sample Ambient Sound Level 20190216/S014 201902100 Present Provide Present Provide Present Provide Present Provide Present Provide Present Present of Report*** For and on b Standard* Environmental & Analytical Labor Present Pr	Customer Reference	SAMPL					
Sample Code         20190216/S014           Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           DAYTIME         RESULT           DAYTIME         RESULT           06.00 Hrs         38.1 dB (A)           07.00 Hrs         40.9 dB (A)           09.00 Hrs         38.3 dB (A)           09.00 Hrs         48.7 dB (A)           09.00 Hrs         38.4 dB (A)           09.00 Hrs         48.7 dB (A)           09.00 Hrs         38.4 dB (A)           10.00 Hrs         51.1 dB (A)           12.00 Hrs         51.5 dB (A)           13.00 Hrs         51.5 dB (A)           14.00 Hrs         51.1 dB (A)           15.00 Hrs         51.5 dB (A)           16.00 Hrs         51.5 dB (A)           16.00 Hrs         51.6 dB (A)           17.00 Hrs         51.6 dB (A)           19.00 Hrs         44.0 dB (A)           20.00 Hrs         40.1 dB (A)           20.00 Hrs         39.6 dB (A)           20.00 Hrs         39.6 dB (A)           20.00 Hrs         39.6 dB (A)           20.00 Hrs         36.9 dB (A)     <	Source of Sample						
Location of Monitoring         West side Boundary           Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           DAYTIME         RESULT         NIGHTTIME         RESULT           06.00 Hrs         38.1 dB (A)         23.00 Hrs         35.7 dB (A           07.00 Hrs         40.9 dB (A)         00.00 Hrs         38.3 dB (A           07.00 Hrs         45.2 dB (A)         01.00 Hrs         39.0 dB (A           09.00 Hrs         45.2 dB (A)         02.00 Hrs         38.6 dB (A           09.00 Hrs         51.1 dB (A)         02.00 Hrs         38.4 dB (A           10.00 Hrs         51.1 dB (A)         03.00 Hrs         39.4 dB (A           12.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A           13.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A           15.00 Hrs         51.5 dB (A)         05.00 Hrs         49.6 dB (A           15.00 Hrs         53.1 dB (A)         Noise Level (Leq) Daytime         49.6 dB (A           19.00 Hrs         44.0 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A           21.00 Hrs         39.6 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A           22.00 Hrs         39.6 d	teres and the second second						
Date of Monitoring         16.02.2019           Method         IS 9989:1981 RA:2008           DAYTIME         RESULT         NIGHTTIME         RESULT           06.00 Hrs         38.1 dB (A)         23.00 Hrs         35.7 dB (A)           07.00 Hrs         40.9 dB (A)         00.00 Hrs         38.3 dB (A)           07.00 Hrs         45.2 dB (A)         01.00 Hrs         38.0 dB (A)           09.00 Hrs         45.2 dB (A)         02.00 Hrs         38.6 dB (A)           10.00 Hrs         51.1 dB (A)         02.00 Hrs         38.3 dB (A)           10.00 Hrs         51.1 dB (A)         03.00 Hrs         38.4 dB (A)           12.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A)           13.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A)           15.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A)           15.00 Hrs         51.2 dB (A)         05.00 Hrs         49.6 dB (A)           16.00 Hrs         53.1 dB (A)         05.00 Hrs         49.6 dB (A)           17.00 Hrs         53.1 dB (A)         Noise Level (Leq) Nighttime         49.6 dB (A)           19.00 Hrs         39.6 dB (A)         21.00 Hrs         39.6 dB (A)           21.00 Hrs	the provide the provide		West side Boundary				
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DRTINUS         38.1 dB (A)         23.00 Hrs         35.7 dB (A)           06.00 Hrs         38.1 dB (A)         00.00 Hrs         38.3 dB (A)           07.00 Hrs         40.9 dB (A)         00.00 Hrs         38.3 dB (A)           08.00 Hrs         45.2 dB (A)         01.00 Hrs         39.0 dB (A)           09.00 Hrs         48.7 dB (A)         02.00 Hrs         38.6 dB (A)           09.00 Hrs         51.1 dB (A)         03.00 Hrs         39.4 dB (A)           10.00 Hrs         51.1 dB (A)         03.00 Hrs         38.3 dB (A)           12.00 Hrs         51.5 dB (A)         05.00 Hrs         40.1 dB (A)           13.00 Hrs         51.5 dB (A)         05.00 Hrs         49.6 dB (A)           14.00 Hrs         51.5 dB (A)         05.00 Hrs         49.6 dB (A)           15.00 Hrs         52.7 dB (A)         Noise Level (Leq) Daytime         49.6 dB (A)           18.00 Hrs         53.1 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A)           19.00 Hrs         49.6 dB (A)         20.00 Hrs         39.6 dB (A)           21.00 Hrs         39.6 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A)           22.00 Hrs         36.9 dB (A)         Standards Environmental & Analytical Labo	DAVTIME	RESULT	NIGHTTIME	RESULT			
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07.00 Hrs         40.9 dB (A)         0000 Hrs         39.0 dB (A)           08.00 Hrs         45.2 dB (A)         01.00 Hrs         39.0 dB (A)           09.00 Hrs         48.7 dB (A)         02.00 Hrs         38.6 dB (A)           10.00 Hrs         51.1 dB (A)         03.00 Hrs         39.4 dB (A)           10.00 Hrs         51.1 dB (A)         03.00 Hrs         38.3 dB (A)           11.00 Hrs         54.2 dB (A)         04.00 Hrs         38.3 dB (A)           12.00 Hrs         51.5 dB (A)         05.00 Hrs         38.3 dB (A)           13.00 Hrs         50.7 dB (A)         RESULTS         40.1 dB (A)           14.00 Hrs         51.5 dB (A)         RESULTS         49.6 dB (A)           15.00 Hrs         52.7 dB (A)         Noise Level (Leq) Daytime         49.6 dB (A)           18.00 Hrs         53.1 dB (A)         49.6 dB (A)         49.6 dB (A)           19.00 Hrs         44.0 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A)           21.00 Hrs         39.6 dB (A)         Noise Level (Leq) Nighttime         38.5 dB (A)           22.00 Hrs         36.9 dB (A)         ***End of Report***         For and on b           22.00 Hrs         36.9 dB (A)         ***End of Report***         For and on b	06.00 Hrs						
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12.00 Hrs     51.5 dB (A)     05.00 Hrs     40.1 dB (A)       13.00 Hrs     50.7 dB (A)     RESULTS       14.00 Hrs     51.1 dB (A)     RESULTS       15.00 Hrs     51.5 dB (A)     A       15.00 Hrs     51.5 dB (A)     A       16.00 Hrs     52.7 dB (A)     Noise Level (Leq) Daytime       17.00 Hrs     53.1 dB (A)     A       18.00 Hrs     47.6 dB (A)     A       19.00 Hrs     44.0 dB (A)     A       20.00 Hrs     40.1 dB (A)     A       21.00 Hrs     39.6 dB (A)     Noise Level (Leq) Nighttime     38.5 dB (A)       22.00 Hrs     36.9 dB (A)     ***End of Report***     For and on b       Standards Environmental & Analytical Labo     Yu 4     Yu 4	and the second se		04.00 Hrs	38.3 dB (A)			
13.00 Hrs         50.7 dB (A)         RESULTS           14.00 Hrs         51.1 dB (A)		51.5 dB (A)	05.00 Hrs	40.1 dB (A)			
14.00 Hrs     51.5 dB (A)       15.00 Hrs     52.7 dB (A)       16.00 Hrs     52.7 dB (A)       17.00 Hrs     53.1 dB (A)       18.00 Hrs     47.6 dB (A)       19.00 Hrs     44.0 dB (A)       20.00 Hrs     40.1 dB (A)       21.00 Hrs     39.6 dB (A)       22.00 Hrs     36.9 dB (A)       ***End of Report***       For and on b       Standard <sup>s</sup> Environmental & Analytical Labo		50.7 dB (A)	RESULT	°S •			
10:00 Hrs     52.7 dB (A)       16:00 Hrs     52.7 dB (A)       16:00 Hrs     53.1 dB (A)       18:00 Hrs     47.6 dB (A)       19:00 Hrs     44.0 dB (A)       20:00 Hrs     40.1 dB (A)       21:00 Hrs     39.6 dB (A)       22:00 Hrs     36.9 dB (A)       For and on b       Standard <sup>s</sup> Environmental & Analytical Labo	14.00 Hrs 🔒						
10:00 Hrs         53.1 dB (A)         Noise Level (Leq) Day time         17:00 are in the second se				10 6 10 (1			
11.00 Hrs     47.6 dB (A)       18.00 Hrs     47.6 dB (A)       19.00 Hrs     44.0 dB (A)       20.00 Hrs     40.1 dB (A)       21.00 Hrs     39.6 dB (A)       22.00 Hrs     36.9 dB (A)       ***End of Report***       For and on b       Standard <sup>s</sup> Environmental & Analytical Labo			Noise Level (Leq) Daytime	49.6 dB (A)			
18:00 Hrs         44.0 dB (A)           19:00 Hrs         40.1 dB (A)           21:00 Hrs         39.6 dB (A)           21:00 Hrs         36.9 dB (A)           22:00 Hrs         36.9 dB (A)           ***End of Report***           For and on b           Standard <sup>s</sup> Environmental & Analytical Labo							
10.00 Hrs     40.1 dB (A)     Noise Level (Leq) Nighttime     38.5 dB (A)       21.00 Hrs     39.6 dB (A)     36.9 dB (A)     36.9 dB (A)     38.5 dB (A)       22.00 Hrs     36.9 dB (A)     ***End of Report***     For and on b       Standards Environmental & Analytical Labo				0			
21.00 Hrs     39.6 dB (A)     Item of Report       22.00 Hrs     36.9 dB (A)     ***End of Report***       For and on b       Standard® Environmental & Analytical Labo			Noise Level (Lea) Nighttime	38.5 dB (A)			
***End of Report*** For and on b Standards Environmental & Analytical Labo							
For and on b Standard <sup>s</sup> Environmental & Analytical Labo	22.00 Hrs		nd of Poport***				
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1).49	1		Standards Environmental	l & Analytical Labora			
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Result of ambient sound

Test	Report No: 20190216/R0	015		Date:	20.02.20	19		Page 1 of 1
			CUSTOMER	DETAIL	s			
			COOTOMBIC		ipthy Gra	nites		
Custo	omer Details	Na	me & Address	Pattambi,				
CHOIC				Palakkad District				
		Su	urvey No	274,27	5/1A3			
		Vi	llage	Thirun	nittacode	I		
Locat	ion of Site	Pa	nchayath		nittacode			
Locat	Ion of Site	-	ſaluk		nbi			
		-	strict	Palakk	126-18-1			
-		St	ate	Kerala		m dated 1	7 04 201	9
Custo	omer Reference		SAMPLE D		-	m dated 1	7.04.201	,
Samr	ole Code	20	0190216/S015	Transferration and the second second	e Received	l On	17.02.2	2019
	ole Name	W	ater	Sampl	ing Procee	lure		
Samp	ole Description	O	pen well	Sampl	ing Locati	on		
Ident	ification By Customer			A	e Conditio	on	Good	
Sumpton on			5.02.2019		tarted On		17.02.2	
Samp	oled By	Cı	ustomer	Test C	ompleted	On	20.02.2	2019
SL NO	TEST PARAMETER		TEST METHOD		UNITS	RESU	JLT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour		IS 3025 Part 4:1983 RA 2	017	Hazen	1.0	0	5.00 (Max)
02	Odour		IS 3025 Part 5:1983 RA 2	017		Unobject	ionable	Unobjectionable
03	Turbidity		IS 3025 Part 10:1984 RA	2017	NTU	< 0.	10	1.00 (Max)
04	рН		IS 3025 Part 11:1983 RA			7.1		6.50 - 8.50
05	Conductivity		IS 3025 Part 14:1984 RA		µS/cm	13		
06	Total Dissolved Solids		IS 3025 Part 16:1984 RA	10200A-11-0-512	mg/L	89. 32.		500 (Max)
07	Total Hardness (as CaCO	3)	IS 3025 Part 21:2009 RA	Contrast In Nov.	mg/L	8.0		200 (Max) 75.0 (Max)
08	Calcium (as Ca)		IS 3025 Part 40:1991 RA IS 3025 Part 46:1994 RA	50000000000000000000000000000000000000	mg/L mg/L	2.9		30.0 (Max)
09 10	Magnesium (as Mg) Chloride (as Cl)		IS 3025 Part 40:1994 RA		mg/L mg/L	19.	0.210	250 (Max)
10	Total Alkalinity (as CaCO	2)	IS 3025 Part 23:1986 RA		mg/L mg/L	25.		200 (Max)
12	Iron (as Fe)	-1	IS 3025 Part 53:2003 RA		mg/L	0.1	2	1.00 (Max)
13	Sulphate (SO4)		IS 3025 Part 24:1986 RA		mg/L	6.8	0	200 (Max)
14	Total Coliform Bacteria		IS 15185 : 2016			Absent/	100 ml	Absent/100 ml
15	E coli		IS 15185 : 2016	of Repor		Absent/	100 ml	Absent/100 ml
	r Stanc	dar	d <sup>s</sup> Environmental &	Anglet			Γ.	For and on behalf & Analytical Laboratori Authorized Signato Rija Joseph Technical Manag

Result of drinking water