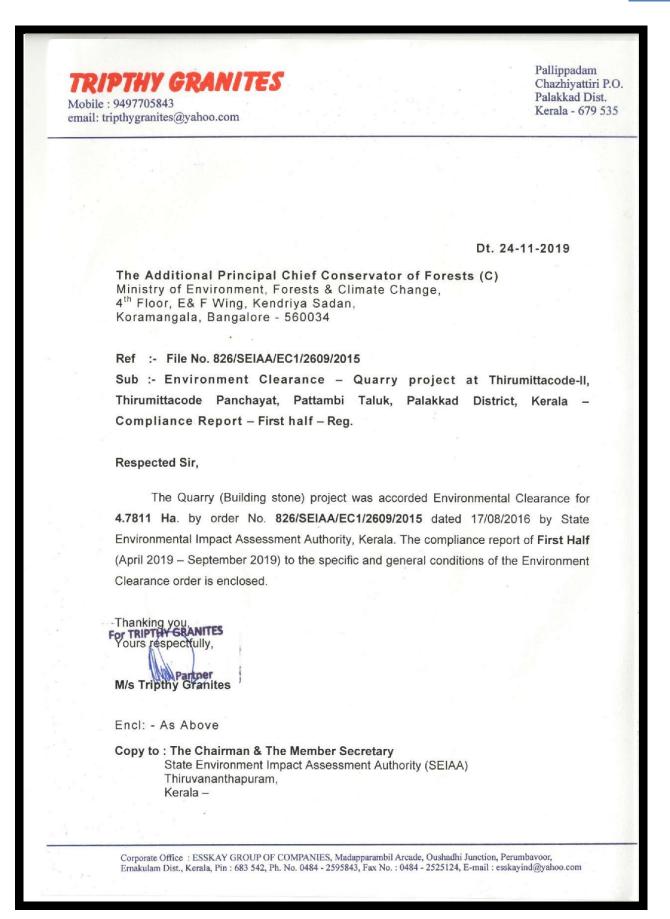
COMPLIANCE REPORT April 2019 – September 2019

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

ΒY

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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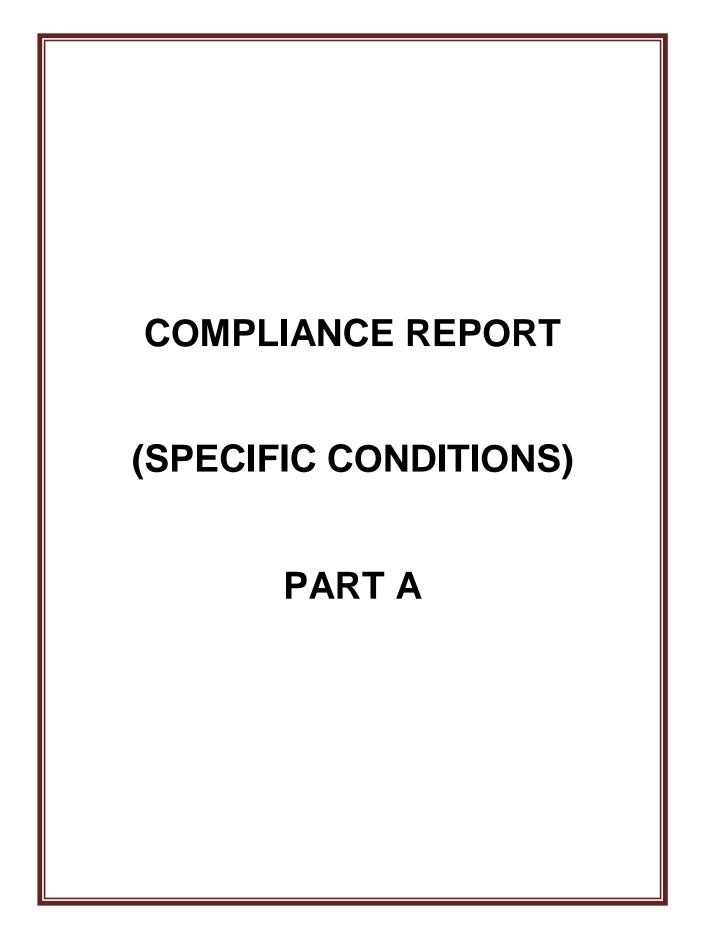
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INTRODUCTION

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 first half to the specific conditions and general conditions of the Environmental Clearance order for the period of **April 2019 – September 2019** is being submitted.



PART - A – SPECIFIC CONDITIONS

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

Compliance:

The overburden materials are stored within the site at designated place. This is being used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site.

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

Compliance:

To manage storm water, there are natural drainages in the project site for channelization of storm water. To settle down the sediments at the bottom of the pond the project is constructing settling tank.

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:

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

04	Dust suppression mechanism must be in place	complied

Compliance:

The project proponent deployed a vehicle to splashes the haulage road and critical areas in regular intervals to arrest dust emissions from the road while transportation of materials. To prevent dust emission, sprinklers are installed in the project site. This help to suppress dust during the time summer season.

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

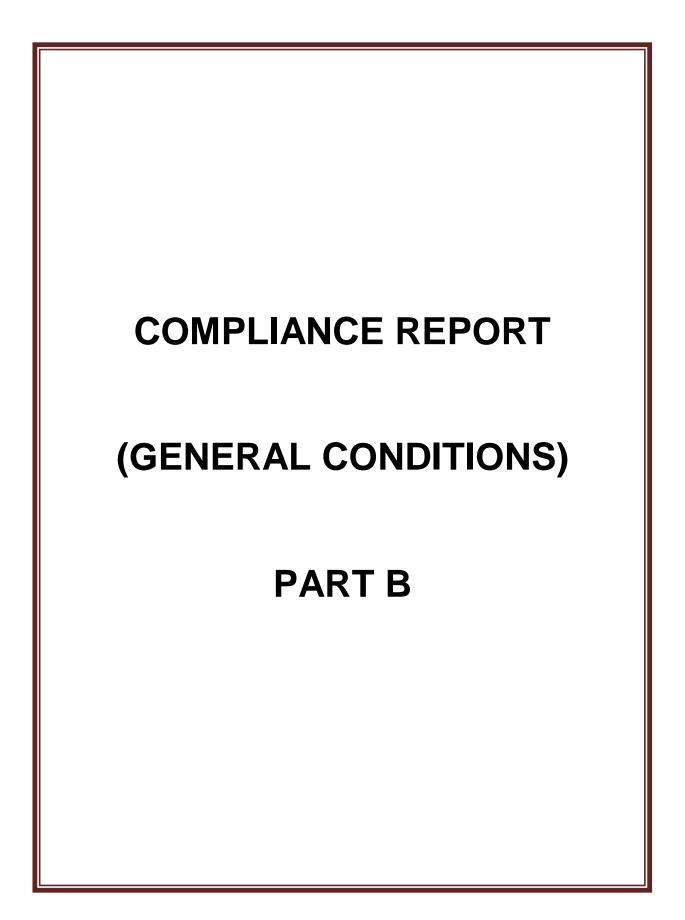
Compliance:

The project proponent has erected barbed metal wire fencing around the mining area and at the critical area and at vulnerable points of the quarry to avoid accidents. This will help to prevent falling of animals/human being/dumping of garbage etc,

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 board 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:

To utilize the rain water, this Rain Water Harvesting (RWH) structure is properly maintaining in the area. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system).

ſ	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 constituted an Environmental Monitoring Cell (EMC) with Mr. Benny Pathrose as head of the monitoring cell. The EMC meeting convenes regularly for a sustainable environment. The details of the monitoring cell are given below:

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.	

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..

SI. No.	Scientific Name Common Nam		Scientific Name Common Name Family	Family	Туре
1.	Artocarpus heterophyllus	Plavu	Moraceae	Tree	
2.	Nerium oleander	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	

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

Compliance:

The installation of solar panel 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:

To arrest the dust emission form the road and other critical area, the project deployed a tanker vehicle to splashes water to prevent dust emission.

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

Compliance:

The project has initiated to buy various saplings in and around the project site. The list of tree/shrub/herb saplings planted in the project site is given below. The mine closure plan will be done at the own cost of project proponent as agreed in the proposal..

07	At least 10 percent out of the total excavated pit area should be	Noted
	retained as water storage areas and the remaining area should be	
	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:

Tten percent of the excavated pit area will be retained as water storage area. This will help to improve the ground water table. It is proposed to develop a vegetative cover in the remaining area with indigenous plant species after reclamation of the mined area with stacked top soil and overburden.

08	Corporate Social Responsibility (CSR) agreed upon by the proponent					
	should be implemented.					

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	10,000
Education	Donation	5,000

Table 3 - Details of performed activities under CSR

Infra. Development	Donation	58,500
Total		73,500

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.	

The project proponent has erected barbed metal wire fencing around the mining area with height of 4 ft for demarcating and enhancing safety,. This will help to prevent falling of animals/human being/dumping of garbage etc.

10	Warning alarms indicating the time of blasting (to be done at specific	complied
	timings) has to be arranged as per stipulations of Explosive	
	Department.	

Compliance:

To give warning to the labours and community people prior to the blasting in quarry. This is properly working prior to the blasting time.

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

Compliance:

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.

12	Quarrying activities should be limited to day time as per KSPCB	complied
	guidelines/specific conditions.	

Compliance:

The quarrying activities are limited to day time only to reduce the inconvenience of community, as per KSPCB guidelines. The quarry working time is 6.30am to 4.30 pm. This will help to limit the sound pollution.

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:

To reduce possible accidents and adverse impact, the blasting is done in controlled manner by using ordinary delayed detonators. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency.

14	A licensed person should supervise/control the blasting operations.	Complied
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Compliance:

To monitor the mining activities, the project proponent has appointed experts having certificate of Foreman and Second Class Manager for supervise/control the blasting operations for the extraction of granite building stones. Same is attached as Annexure No. 6

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

Compliance:

To reduce the emission of dust, the access road from the entrance of project site is maintain properly for transportation. The project proponent is spraying water on the road to arrest the dust during summer season. The project proponent is intending maintain access road to the quarry in good condition for dust emission and easiness of transportation of vehicles.

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

Compliance:

The overburden materials are stored within the project site. This will be used to restore the exploited and low laying area in future. Some portion of the overburden was used to construct haulage road and land filling in the project area.

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

Compliance:

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.

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

The project proponent is using blast mat. The project assures the maximum PPV is under 10 during the time of blasting. The project is using ordinary delayed detonator for blasting therefore there is no issue with fly rock in the community.

19	Maximum depth of mining from general ground level at site shall not	Will k	ре
	exceed 10m.	complie	d

Compliance:

The depth of mining won't 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° .		

Compliance:

There is no mining operation is carried out with a slope greater than 45[°] in the project site.

21	Acoustic	enclosures	should	be	provided	to	reduce	sound	Being
	amplificati	ions in addition	on to the	prov	visions of g	reen	belt and	hollow	Complied
	brick env	elop for crus	shers so	that	the noise	leve	el 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 assure the safety of labours, the project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, glows, etc. to ensure the safety of workers in working site.

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

Compliance:

. The project proponent has constructed clarifiers and 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.	

Compliance:

The project assures the trucks are covered before it leaving the project site to avoid dust emission while transportation of materials,

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:

The project proponent has been planting various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining.

2	6	Disposal	of	spent	oil	from	diesel	engines	should	be	as	specified	complied
		under rele	eva	ant Rule	es/F	legula	itions.						

Compliance:

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

2	27	Explosives should be stored in magazines in isolated place specified	complied	
		and approved by the explosives department.		1

The explosives are stored in magazine. The magazine is situated in an isolated place specified and approved by the explosives department.

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:

The distance of the nearest house is above 143 meter form the quarry. The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places are 50 meters.

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

There is no forest in the 100 meter vicinity to the project site.

ſ	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.

The certificates obtained from concerned statutory authorities are enclosed in

Annexure No.1, 2, 3, 4 & 5

TABLE NO.4 – DETAILS OF APPROVALS OBTAINED

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	826/SEIAA/EC1/2609/2015 Dt.17-08-2016
<i>"Consent to Operate"</i> (Renewal)	Kerala State Pollution Control Board	PCB/PLKD/IC/CO-4012/2016 Dt. 18-10-2016
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/1745(E81598)
License for quarry operations	Municipality	A7-197/2017-18 Dt. 10-05-2017
Lease deed	Mining and Geology Dept.	Dt. 29-05-2017

3	2	In the case of any change(s) in the scope of the project, extent	Noted
		quantity, process of mining technology involved or in any way	
		affecting the environemental parameters/impacts as assessed, based	
		on which only the EC is issued, the project would require a fresh	
		appraisal by this Authority, for which the proponent shall apply and	
		get the approval of this Authority.	

Compliance:

At present no plant to change its scope. The project will seek for a new Environmental clearance In the case of any change(s) in the scope of the project.

measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.

Compliance:

If the authority instructs to add additional safeguard measures subsequently, the project will be complied with.

34	The stipulations by Statutory Authorities under different Acts and Noted
	Notifications should be complied with, including the provisions of 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:

As per the condition stipulated in environmental clearance order, an advertisement in two local newspapers one which was in Malayalam and another was in English 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.

37The 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 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. 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 details of the Environmental Clearance are displayed in the project site. The project proponent has placed the metallic board as specified in the conditions of Environmental Clearance order. The extent of lease area boundary will depict soon.

I	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.	

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.	

Compliance:

The project is not intending to expand the area of mine, technology and scope of working. The project will appear SEIAA for Environment Clearance if the project wants to expand its scope.

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:

There is no such natural water course or thodu is flowing along the project site. The project will ensure the natural runoff of storm water. No stream is 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:

To monitoir the air quality, the project proponent has been monitored the ambient air quality by an accredited laboratory 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.	
1		

Compliance:

The top soil and overburden are stacked in designated place within the project site to prevent the soil erosion. 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 constructed drains 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	complied
	shall be carries out in critical areas prone to air pollution and	
	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 splashed water in critical area to arrest the emission of duist. To know the pollution level, the project proponent is regularly checking the air quality with the help of an accredited 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 area 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 sprinklers and vehicle for water spraying will be properly marinated

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

Compliance:

The project proponent constituted 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.

49The funds earmarked for environmental protection and CSR
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.Being
complied

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 maintain an account for keeping the funds earmarked for environmental protection and CSR.

50	The Region	nal Office o	of MoEF	& CC located	at Bang	galore shall	Will	be
	monitor co	ompliance	of the	stipulated conc	litions.	The project	comp	lied
	authorities should extend full cooperation to the officer(s) of the							
	regional	Office	by	furnishing	the	requisite		
	data/inform	nation/moni	toring r	eports.				

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 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.

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.	
	Concealing the factual data or submission of false/ fabricated 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.	

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.	

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

ſ	57	The mining operation shall be restricted to above ground water	Will be	
		table and is should not intersect ground water table.	compl	lied

Compliance:

The project proponent 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:

The project proponent monitors the pollution level of all vehicles playing in the project site. This monitoring conducted only in authorized pollution checking center.

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

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.	

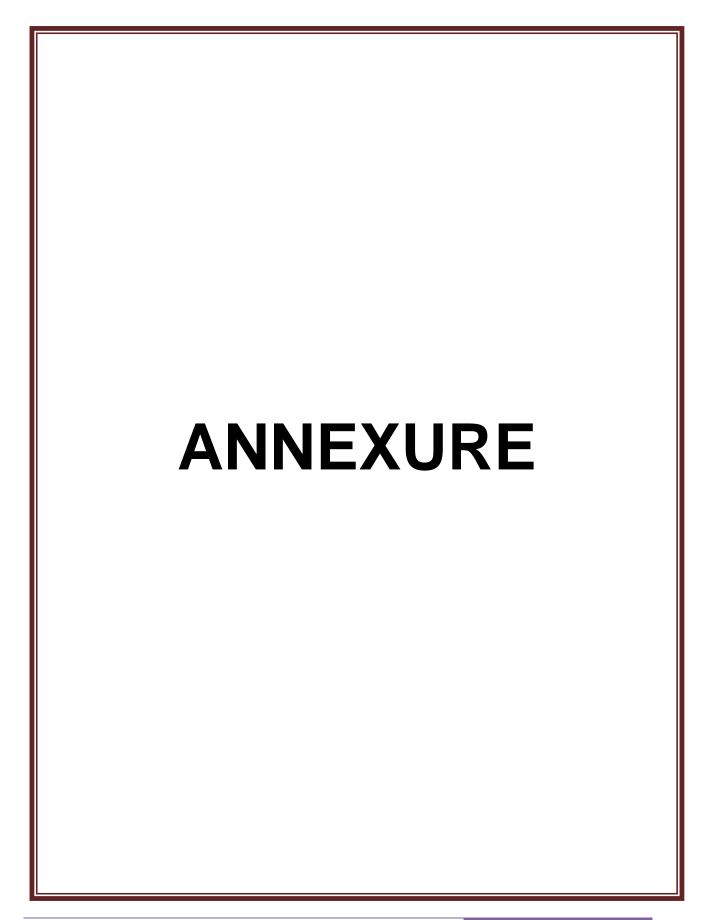
Compliance:

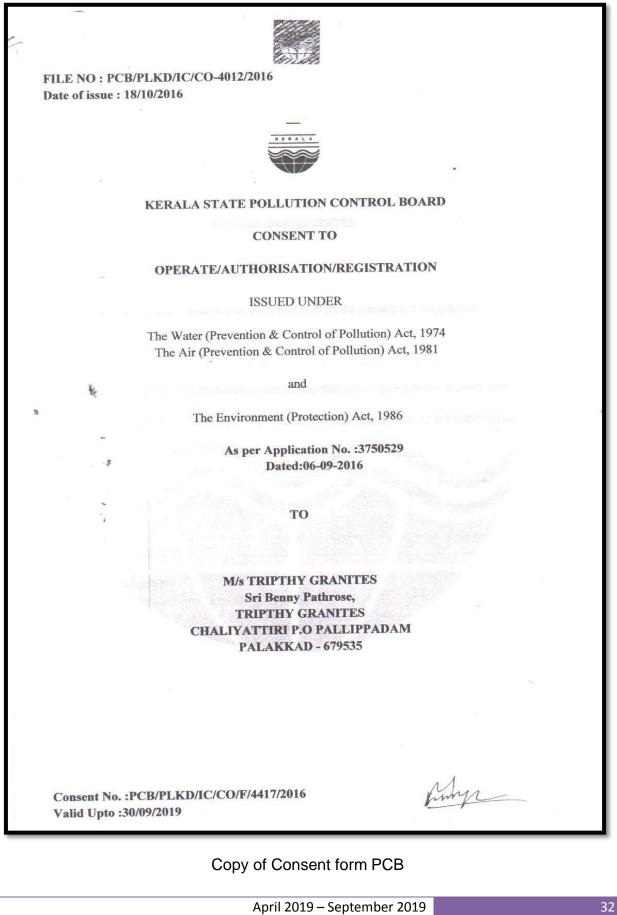
There is no stream or springs flowing in and around to the mine lease area. The project will install de siltation trap and other mechanism to prevent sediments and wastes from the mining area entering in to the public drainage system.

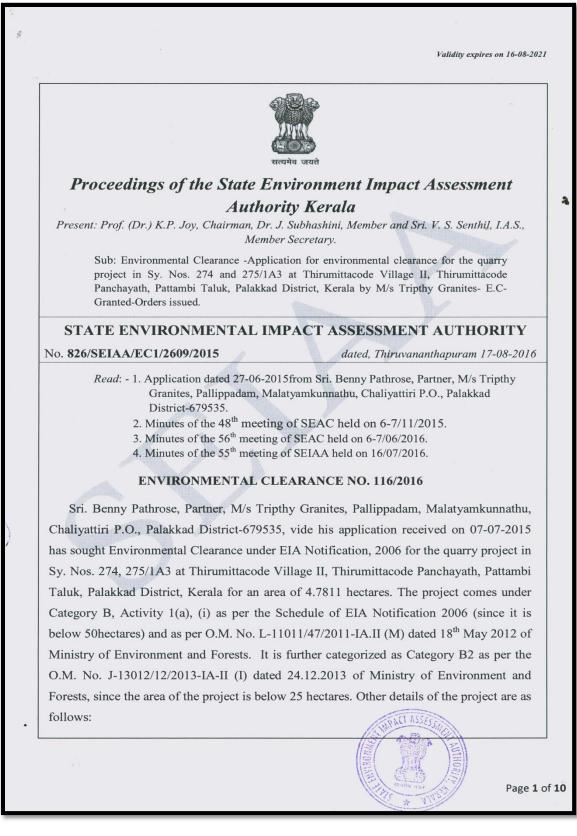
61	Occupational health surveillance program of the workers should	Noted
	be under taken periodically to observe any contractions due to	
	exposure to dust and take corrective measures, if needed.	

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 Environmental Clearance

	(विस्फोटक निय	नप्ति प्ररुप एल. ई3 LICE म, 2008 की अनुसूची 4 के भाग	। के अनच्छेद 3(क) से (घ) देरि	बेए।)
(ग) उ	पयोग के लिए एक समय पर वर्ग 1,2,3	3(a) to (d) of Part 1 of Schedule 3,4,5 या वर्ग 7 के विस्फोटक या sess : (c) for use,explosives of cla	किसी मैगजीन में वर्ग 6 के लि	वेस्फोटक रखने के हि
अनुज्ञप्ति सं. (Licence No.) : I वार्षिक फीस रुपए (Annual Fe	/SC/KL/22/1745(E81598)			UT OF INDIA.
I. Licence is hereby granted to			(PE)	
Sh.Benny Pathrose, Partne Peringode Via, Town/Villa	er (अधिभोगी / Occupier : Sh.Benny P ge - Chaliyattiri, District-PALAKKAD	athrose), M/s. Thripthy Granite , State-Kerala, Pincode - 679535	s, Pallipadam, Malayamkum	ath, Chażhiyalari, PC
को अन्जप्ति अन्दत्त की उ 2. अन्जप्तिधारी की प्रास्थिति	नाती है। Status of licensee : Partnership Firm			A CONTRACTOR
³ अनुजप्ति निम्नलिखित प्रयो Licence is valid only for the		. possess for u उपयोग के ति		ty Fuse, Ordinary Detonator, Electric Detonators,
4. अन्जप्ति विस्फोटकों के नि	म्नलिखित किस्मों, प्रकार और मात्रा के wing kinds and quantity of explosives:	लिए विधिमान्य है।		
क्र Sr. No	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture Safety Fuse	2,0	0 0	400 Kg. 1000 Mtrs
3.	Ordinary Detonator	6,3	0	5000 Nos.
4. (ख) किसी एक कलैंडर मास में (b) Quantity of explosives to b	Electric Detonators खरीदे जाने वाले विस्फोटक की मात्रा [अन् e purchased in a calendar month[applicable	6 ,3 उच्छेद 3(ख) और (ग) के अधीन अन् for licence under article 3(b) and (0 ज्ञप्ति के लिए] c)] :	5000 Nos. 10 times as above.
 निम्नलिखित रेखाचित्र (रेखा The licensed premises shall 	चित्रों) से अनुज्ञप्त परिसर की पुष्टि होते conform to the following drawipg(s):	ी है। 	. रेखाचित्र क्र. (Drawing N दिनाक (Dated) 25/07/20	lo.) E/SC/KL/22/1745(E81598) 017
 अन्जप्ति परिसर निम्नलिरि 	बेत पते पर स्थित हैं। The licensed pre m/Village) : Thirumittacode-2 (v), Pa	mises are situated at following a	ddress:	and a same (B-1) - Control of a
जिला (District) दरभाष (Phone)	PALAKKAD	राज्य (State) ई. मेल (E-Mail)		पुलिस याना (Police Station) : Chalis: कोड (Pincode) 679535 न्स (Fax)
 अनुजाप्ति परिसर में निम्नति The licensed premises consi 			magazines of B(No.11) & E	3(No.12) type fabricated by M/s. Industrial Explosiv
Drawings (showi) 2. अनुजर्भित प्राधिका Conditions and A 3. दूरी प्ररूप DE-2 9. यह अनुजस्ति तारीख 31 मा यह अनुजस्ति, अधिनियम य यदि अनुजस्त परिसर योजन	में यथा कथित रेखाचित्र (स्थान, सन्नि g site, constructional and other details) 11 द्वारारा हस्ता क्षेत्रत इस अनुजुद्धि के dditional Conditions of this licence sign Distance Form DE-2. ई 2022 तक विधिमान्य रहेगी। प्रीज़ 1 3 उसके अधीन विरचित नियमों या अनु 1 या उससे संलग्न उपबंध में दशित वि	as stated in serial No. 5 above. ते शर्त और अतिरिक्ति शर्त। eed by the licensing authority. cence shall remain valid till 31st सूची V के आग 4 के प्रति निर्दिष वरण के जिनुरेष वहीं पाए जाने	day of March 2022 ट सेट-VI(के अधीन तथा उप मर निलंबित या प्रतिसंहत की	वर्णित इस अनुजन्ति की शर्तों का अधिक्रमण करने य 1 जा सकती है, जहां वह लागू हो।
This licence is liable to be si referred to in Part 4 of Scher	ispended or revoked for any violation o lule V or if the licensed premises are no	I the Act or Rules framed there to the found conforming to the descri	inder or the conditions of this ption shown in the plans and	licence as set forth under Set VIII, wherever applicable Annexure attached vereto.
तारीख The Date - 25/07/2	017		संयुक्त मुख्य वि	स्फोटक नियंत्रक Joint Chiel Controller of Explosi
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नवीकरण की तारीख Date of Renewal	समाप्ति की तारीर Date of Expiry	ब		गरी के हस्ताक्षर और स्टाम्प ensing authority and stamp
	कानूनी चेतावनी : विस्फोटकों को ग	लत ढंग से घलाने या उनका रा	रूपयोग विधि के अधीन गंधीन	र दांडिक अपराध होगा।
	Statutory Warning : Mishandling			
	х,			
				JU HER BANDER
			1	Deputy Chief Controller of Explosives
				एरनाकुलम Ernakulam

Copy of Explosive

இல்லு பிழக்கை புருக்கை புருக்கை வின்னில் வின்னல் வின்னனல் வின்னனல் வின்னனல் வின்னனல் வின்னன் வின்னன் வின்னன்னன்னன்னன்னன்னன் வின்னன்னன்னன் வின்னன்னன் வின்னன் வின்னன் வின்னன்னன்னன்னன்னன்னன்னன் வின்னன்னன் வின்னன்னன் வின்னன் வின்னன் வின்னன் வின்னன் வின்னன் வின்னன் வின்னன் வின்னன்னன்னன்னன்னன்னன்னன்னன் வின்னன்னன்னன்னன்னன்னன			A.	
ப்பணைழல் பி.க., ப்பவக்கைக் (இலு) பின் 579535, வேன் 4662258233, ஐ-வைிய்: ddpthirumittakodepkd@gmail.com ப்பிப்பில் (க.வி.னி.லி.னி.லி.லி.வி.லி.வி.லி.வி.லி.வி.வி.வி.வி.வி.வி.வி.வி.வி.வி.வி.வி.வி	നമ്പര്: 210/2019-2020/A-7/776/19		തീയ	തി: 04/04/2019
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ຄຫວຯໃໝ້ ຕຳໄລູງຫາ 2500 /- ດູງ		15000 /- രൂപ		19/03/2019
as per the order no of Hon. High court -WP(C) no 12122/2017(M), as per the order no of Hon. High court -WP(C) no 12122/2017(M), Kerala State Poloution Control Board Consent No (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) /6/08/2009 (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) /6/08/2009 Proceedings of the Director of Mining & Geology NO.95 / 2017 Proceedings of the Director of Mining & Geology NO.95 / 2017 Proceedings of the Director of Mining & Geology NO.95 / 2017 (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 50/08/2019) (PCB/PLKD/IC/CO/F/4417/2016- Valid up to 2015) (PCB/PLKD/IC/CO/F/4417/2015 Dated 17/08/2018) Explosive licence no E/SC/KL/22/1745(E81598) Valid up to 31/03/2022, Foreman,s Certificate of Competency PLINT FROM PLANT SCIENCE OF SCIENCE (V2004-1690) (V2004		2500 /- രൂപ		
Aກວສເດວສຄິໝ ກາໄຄວເຜສຍຸມ ມ(ຫເສງຊູ)ຄຣ ດູໂທຣວວເທຣສາວທີ (ກາເກເດັ, ທີ່ໃນພາກີ, ສວຍເພລຼດບັ, ເກເດັສໂພ ເຫຍເປີສວາດ ກາເມວຸມເກດ) 2. Proceedings of the Director of Mining & Geology NO.95 / 2017- 18/5160 / M3/2016 / DMG Dated 20/05/2017. proceedings of the State Environment impactassessment Authority Keyala (829/SEIAA/EC1/2609/2015 Dated 17/08/2016) 3. Explosive licence no E/SC/KL/22/1745(E81598) Valid up to 31/03/2022, Foreman, s Certificate of Competency Chathas Bate		as per the order n	ution Control Board Consent No	
THE	ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തിയതി, കാലയഒവ്,	18/5160 / M3/2010 State Environmen	5 / DMG Dated 20/05/2017, proc t impactassessment Authority Kar	aedings of the GR
Bate BiRUMETICODE GIAMA PA				
Date	SRAME PARA			R. John
THIRDART LECIENC GRAMA YA	Chathannier A		തിരുമിറക്കോട് ശ	Secretary
	and the state of t		* TRIBUMETTE	DDE GRAMA PA

Copy of license from Gram Panchayat

Doudren 1842 10 Dupriede Tr. **Rs. 50** पांच सौ रुपय त्यमेत जयत INDIA NON JUDICIAL Con OBO केरल KERALA FORM H C 638842 (See Rule 43) QUARRYING LEASE This deed of lease made on this the......29th.... day of May......2017 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and Shri. Benny Pathrose, Partner, M/s. Tripthy Granites, Pallipadam, Chazhiyattiri. P. O, Palakkad, aged 46 years, son of Shri. M. M. Pathrose resident of Madappillil House, Malayidomthuruthu Post, Kunnathunadu Taluk, Benny Ernakulam District (hereinafter called the "lessee/lessees" which expression Paltrose shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part. Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 4.7811 hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of **Ten** (10) years commencing from the .291.51.201.7.... and ending on the 2.8.51.202.7 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Foi VALUE SOLD O asian c (Amgelectorate Vendar and mand of PALAKKAD (Bar8 (8) 12 C

A6/842/2 Propanted in the filice of the Subregistry Thrithela at 2.50 Phi On this the 2.5.4. day of ... Free Philong the photographies and Thump Impression(s) of the origination (s). Claimaniles and presentantial under section 32A and paid a fds of Rupser 63772 Berry Palhrose Reveling at Medappali) hose Sto mm Palmon and der the signal and home haven he Kuthichivakuelicul Eldhose Alle (1)K.K. Kuniakore Bussiness Donowhal. P.O Basil. Vellamkandalhit Basilfard Slo Vastery Y Bussiness Nellimation. Po critchadmithe by I have sadisfied myself as to the criceAmad the Olarty k. K. Sageevan Golagot Distant office Of the department of mining and go lagy Palakkad he is excempted in Rossonel appearence as Per sect St (1) of Indian Regn Act 1208 VISWAMOHANAN nel day of The dois Sub Registrar Registered as No. 1.842 or 2012 in Book E Volume 1658 Ferra from 93 to -98 VISWAMOHANAN of Tudob Sub Registrar

Lease deed

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 सामा रमनजूला रेड्डी सुपुत्र सोमा वेंकट रेड्री है, को विहित अर्हताएं एवं अनुभव प्राप्त करने जिनकी जन्म तिथि 08.03.1995 का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतदुद्वारा फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है । यह प्रमाण-पत्र दिनांक 06.07.2016 से प्रभावी है। Shri Soma Ramanjula Reddy born on 08 th March , 1995 son of Soma Wenkata Reddy 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 चिव 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

	Environmental S		,	REPORT				
fest Ret	oort No: 20190514	/R056		Date: 18.05.201	9	I	Page 1 of 1	
			CUSTOME	ER DETAILS				
				M/s Tripthy Gran	lites			
lietomo	r Details	Name	& Address	Pattambi,				
Justonie	- Detailo		a su ang Takin Gulandina	Palakkad District				
		Survey	No	274,275/1A3				
		Village		Thirumittacode II				
	of Site	Pancha	ayath	Thirumittacode				
Location	of Site	Taluk		Pattambi				
		Distric	t	Palakkad				
		State		Kerala	1 . 1	05 0010		
Custome	er Reference			Test Request form	n dated 14	.05.2019		
			SAMPLI	E DETAILS				
Source c	of Sample	Ambie	nt Air	Sample Code		20190514/S056		
	of Monitoring		side boundary Sampled By			Laboratory		
	Monitoring	14.05.		Test Started On)n	15.05.2019		
1.5.4.7.5.1	Received On	15.05.	2019	Test Completed C Sampling Proced				
Humidit	У	62%		Sampling Procee	uic	10 0101		
							NAAQ	
SL NO	TEST PARAM	ETER	TEST	METHOD	UNIT	RESULTS	STANDARD	
01	Particulate matter	(PM10)	IS 5182 Part 23	: 2006 RA 2017	µg/m³	59.6	100	
02	Particulate matter	(PM _{2.5})	EPA 40 CFR Pa	EPA 40 CFR Part 50 Appendix – L		22.9	60.0	
03	Sulphur dioxide (S	SO ₂)	IS 5182 Part 2:	2001 RA 2017	$\mu g/m^3$	< 2.00	* 80.0	
04	Nitrogen dioxide (NO2)	IS 5182 Part 6:	2006 RA 2017	$\mu g/m^3$	< 2.00	80.0	
			⊑••	1 of Report				
			Ent		n .		and on behal	
				Standard ^s	Environme	ntal & Analy	tical Laborator	
							Paya	
						Aut	horized Signat	
		878					Rija Josep	
1						Tec	hnical Ma	
						٠		
						4		

Ambient Air

Stand	a Monitoring						
Unutronment	TEST	<u>r report</u>					
Test Report No: 20190	0514/R057	Date: 18.05.2019	Page 1 of 1				
	CUSTO	MER DETAILS	2				
		M/s Tripthy Granites					
Customer Details	Name & Address	Pattambi,					
		Palakkad District					
	Survey No	274,275/1A3					
	Village	Thirumittacode II					
	Panchayath	Thirumittacode					
Location of Site	Taluk	Pattambi					
	District	Palakkad					
	State						
Constant and Descention and	State	Kerala	unute, Salessiumaa				
Customer Reference		Test Request Form dated 14.0.	5.2019				
0	SAMP	PLE DETAILS					
Source of Sample		Ambient Sound Level					
Sample Code		20190514/8057					
Location of Monitoring		West side Boundary					
Date of Monitoring		14.05.2019					
Method		IS 9989:1981 RA:2008					
DAYTIME	RESULT	NIGHTTIME	RESULT				
06.00 Hrs	37.3 dB (A)	23.00 Hrs	34.8 dB (A)				
07.00 Hrs	40.0 dB (A)	00.00 Hrs	37.3 dB (A)				
08.00 Hrs 09.00 Hrs	44.3 dB (A)	01.00 Hrs	38.1 dB (A)				
10.00 Hrs	47.7 dB (A) 50.1 dB (A)	02.00 Hrs 03.00 Hrs	37.7 dB (A)				
11.00 Hrs	53.1 dB (A)	04.00 Hrs	38.4 dB (A) 37.3 dB (A)				
12.00 Hrs	50.4 dB (A)	05.00 Hrs	39.1 dB (A)				
13.00 Hrs	49.7 dB (A)		,				
14.00 Hrs	50.1 dB (A)	RESULT	S				
15.00 Hrs	50.4 dB (A)						
16.00 Hrs	51.6 dB (A)	Noise Level (Leg) Daytime	48.5 dB (A)				
17.00 Hrs 18.00 Hrs	52.0 dB (A)	(b)	40.0 ub (A)				
19.00 Hrs	46.6 dB (A) 43.1 dB (A)		-				
20.00 Hrs	39.3 dB (A)						
21.00 Hrs	38.8 dB (A)	 Noise Level (Leq) Nighttime 	37.6 dB (A)				
22.00 Hrs	36.2 dB (A)						
	· ***En	nd of Report***					
T		Standard ^s Environmental	For and on behalf & Analytical Laboratori				
			· D				
			Viga .				
			Authorized Signato				
			Rija Joseph Technical Manag				

K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43 Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of ambient sound

April 2019 – September 2019

	Standa	M	Dilloring TEST	REPO	RT				
Test	Report No: 20190514/R	.058		Lases -	18.05.20	019		Page 1 of 1	
			CUSTOMER	DETAIL	LS				
Custo	omer Details	N	ame & Address	M/s T Pattar	ripthy Gr				
		S	urvey No	274,2	75/1A3				
		V	illage	Thiru	mittacode	II			
Larri	tion of Site	P	anchayath	Thiru	mittacode				
Locat	tion of Site	Т	aluk	Pattar	nbi				
		D	istrict	Palakl	kad				
		S	tate	Kerala	a				
Custo	omer Reference				-	rm dated 1	5.05.201	.9	
0	1- 0-1-	0	<u>SAMPLE D</u> 0190514/S058		le Receive	4.0-	15.05.2	010	
	ble Code ble Name	-	ater	-				2019	
	ble Description	-	pen well	220 2	bling Procedure bling Location				
	ification By Customer		*	1000	le Conditi		Good		
	oled On	-	4.05.2019		Started On 15.05.2		2019		
10.0	oled By	1 1 1 1	ustomer		Completed On 18.05.2				
r					1	*		•	
SL NO	TEST PARAMETER		TEST METHOD		UNITS	RESULT		ACCEPTABLE LIMI (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			Unobjecti		Unobjectionable	
03	Turbidity		IS 3025 Part 10:1984 RA		NTU	0.2		1.00 (Max)	
04			IS 3025 Part 11:1983 RA	Vertile Street a		6.8	2.0	6.50 - 8.50	
05	Conductivity		IS 3025 Part 14:1984 RA	Contraction of the	µS/cm	118	570 		
06	Total Dissolved Solids		IS 3025 Part 16:1984 RA 2017		mg/L	76.0		500 (Max)	
07	Total Hardness (as CaCO	3)	IS 3025 Part 21:2009 RA 2014		mg/L	34.		200 (Max)	
08	Calcium (as Ca)		IS 3025 Part 40:1991 RA 2014 IS 3025 Part 46:1994 RA 2014		mg/L	9.60		• 75.0 (Max)	
09 10	Magnesium (as Mg)	_	IS 3025 Part 40:1994 RA		mg/L	10.9		30.0 (Max)	
	Chloride (as Cl)	2)			mg/L	25.		250 (Max)	
11 12	Total Alkalinity (as CaCO: Iron (as Fe)	3)	IS 3025 Part 23:1986 RA IS 3025 Part 53:2003 RA	22	mg/L mg/I	0.16		200 (Max)	
12	Sulphate (SO4)		IS 3025 Part 24:1986 RA	Version as	mg/L mg/L	< 1.00		1.00 (Max) 200 (Max)	
13	Total Coliform Bacteria		IS 15185 : 2016	2017		< 1.00 Absent/100 ml		Absent/100 ml	
14	E coli		IS 15185 : 2016			Absent/1		Absent/100 ml	

Duga Authorized Signatory Rija Joseph Technical Manager

Standard⁵ Environmental & Analytical Laboratories Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43 Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of drinking water