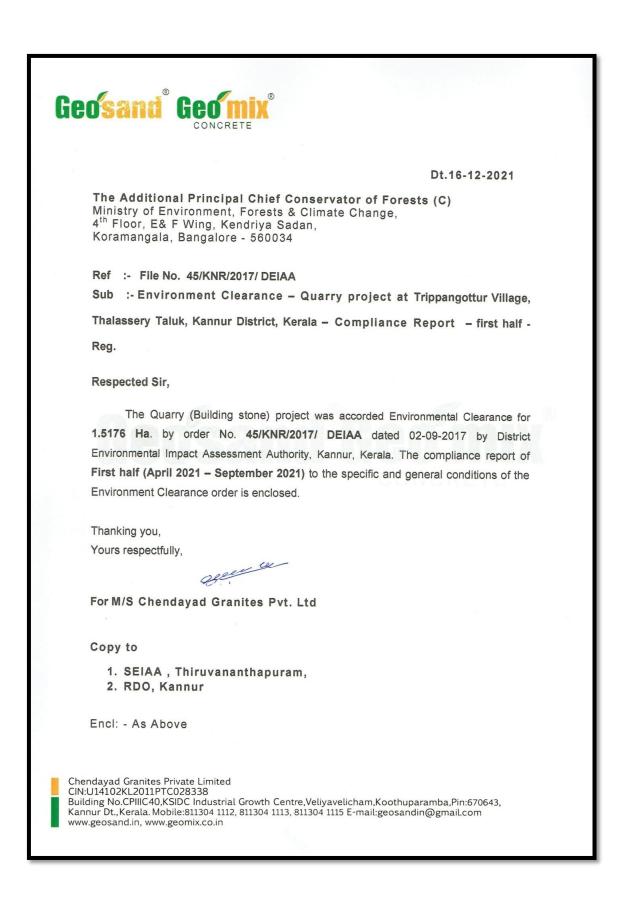
# COMPLIANCE REPORT APRIL 2021 – SEPTEMBER 2021

QUARRY PROJECT

# **M/J CHENDAYAD GRANITES PYT LTD**

KANNUR DISTRICT

**KERALA** 



# **COMPLIANCE REPORT**

# ТО

# THE CONDITIONS

# OF

# ENVIRONMENTAL CLEARANCE ORDER

# NO: 45/KNR/2017/ DEIAA

# Dated: 02-09-2017

BΥ

DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (DEIAA)

# FOR

# **BUILDING STONE QUARRY**

(MINOR MINERAL MINING) PROJECT

ΑΤ

# SURVEY NOS. 275/1A

# TRIPANGOTTUR VILLAGE, THALASEERY TALUK

# KANNUR DISTRICT, KERALA

BY

# M/s Chendayad Granites Pvt. Ltd

# **KANNUR DISTRICT**

# **KERALA**

October 2020 - March 2021

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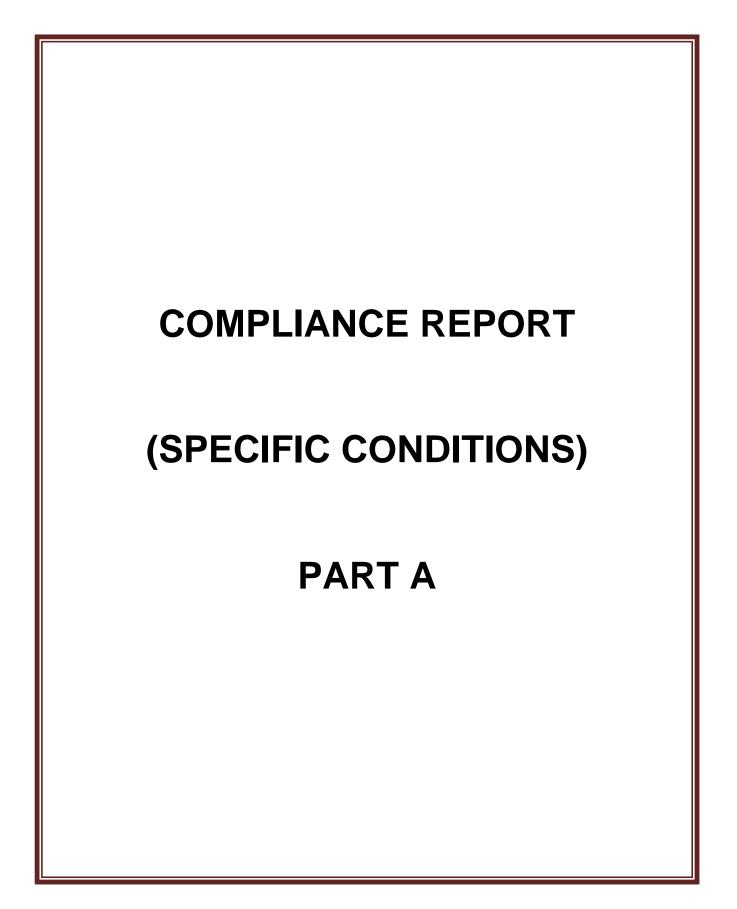
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## INTRODUCTION

Quarry project of **M/S Chendayad Granites Pvt. Ltd** is situated at Survey No. 275/1A, Trippangottur Village, Thalassery Taluk, Kannur District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by District Environmental Impact Assessment Authority, Kannur on 02-09-2017. 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 condition, health conditions and general conditions of the Environmental Clearance order for the period of April 2021 - September 2021 is being submitted.



# PART - A – SPECIFIC CONDITIONS

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

To monitor the extraction of minerals and to control, direct, manage and supervise the quarrying operations in the quarry the project proponent has appointed a mines manger as per the Mines Act 1952. Certificates of Mines engineer were attached as **Annexure No.2** and Form D is attached as **Annexure No 3**.

# 02 Health and welfare for the persons employed shall be complied implemented

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

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

To reduce adverse impact of blasting, the project proponent practice controlled blasting with ordinary/electric delayed detonator. The blasting time in the quarry is in day time only. No work has there in the quarry site at Night. The blasting time in the quarry is in from 7 am to 6 pm. The mitigate measures to arrest ground vibration and fly rock is detailed in General condition No 11. The board showing the blasting time is attached as **Plate No. 1** 

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

To prevent air pollutions, a green belt is important in the mining site. In order to that the project proponent has taken the suggestion of agricultural department to plant the native species. The project proponent has started to plant various saplings in the project site to develop a green belt around the project area. Avenue tress also planted along the road side to minimise the dust emission. Photograph of plantation is given in **Plate No. 16.** 

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

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

To enhance safety and to demarcate the lease area, the project has done fencing around the lease area. The photograph of the fencing is provided at **Plate No. 15.** 

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

The project proponent has redrafted the CSR by including the ground water recharging techniques and felt needs around the vicinity of project site.

## 08 Appropriates sign boards should be displayed. Complied

The appropriate sign boards are installed in the project site. The photographs of the sign boards are attached as **Plate No. 8** 

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

To provide notice to the labours and general public a board containing blasting timings are displayed on the site and on the boundaries in the project site. The photograph of the Time showing blasting board is attached as **Plate No.1**.

10	Dust suppression mechanism must be in place.	Complied

The project splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials.

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

As part of compensatory plantation, A Separate small plot has demarcated to preserve the endemic species by the project proponent. Various saplings were started to plant by the project proponent in the project site.

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

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

The project proponent has provided Green belt around the project area. This will reduce air and noise pollution.

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

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

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

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

# 16Permanent boundary pillars should be fixed by the proponentcompliedbefore commencing quarrying

To demarcate the mining area, permanent Boundary pillars were fixed at each bent of the lease area. This was done before initiating quarrying activities. The photograph showing the permanent boundary pillars are attached as **Plate No. 2**.

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

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

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

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

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

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

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

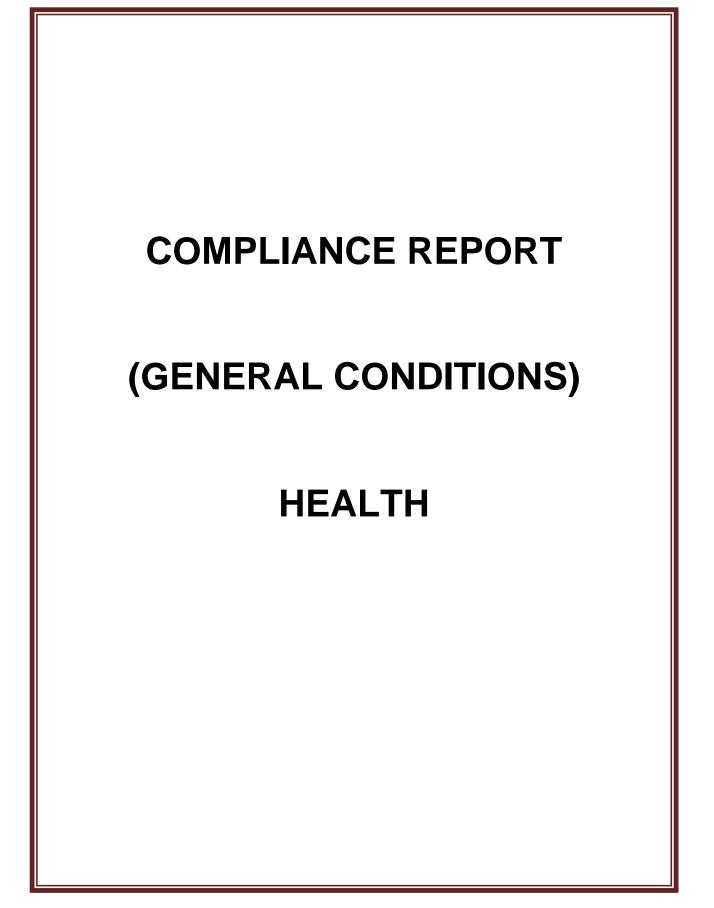
To manage storm water, the project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes.

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

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

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

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



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

As part of safety measure, the project proponent is keeping first aid box in the project site. In order to use the first aid kit the training has been provided to selected labours. Photograph showing First Aid Box is attached as **Plate no.9** 

02	Whole some drinking water should be provided.	Complied
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In the project area pure drinking water is available at all time for everyone in the project site.

03 Premises should be maintained as wet to suppress	the dust. complied
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The project proponent splashing water on haulage roads and loading and unloading point to reduce the emission of dust

04 Sanitary type of latrines and urinals should be provided	I. Complied
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The project proponent gives importance to the sanitary needs of workers in the project site. So the project proponent has given sanitary type of latrine and urinals to every labour in the project site. The photograph of the sanitary type of latrines and urinals are attached as **Plate No 3** 

05	Resting place should be provided for workers.	Complied

To get proper rest to the labours, the project has arranged adequate rest rooms in the project area. The photograph of the Resting place provided for workers are attached as **Plate No 10** 

# 06 'No Smoking' board should be exhibited according to COTPA Complied Act.

The project proponent has displayed No smoking area in the project site. The photograph of the No smoking Board is attached as **Plate No.4** 

07	Work should not be done in night.	Complied

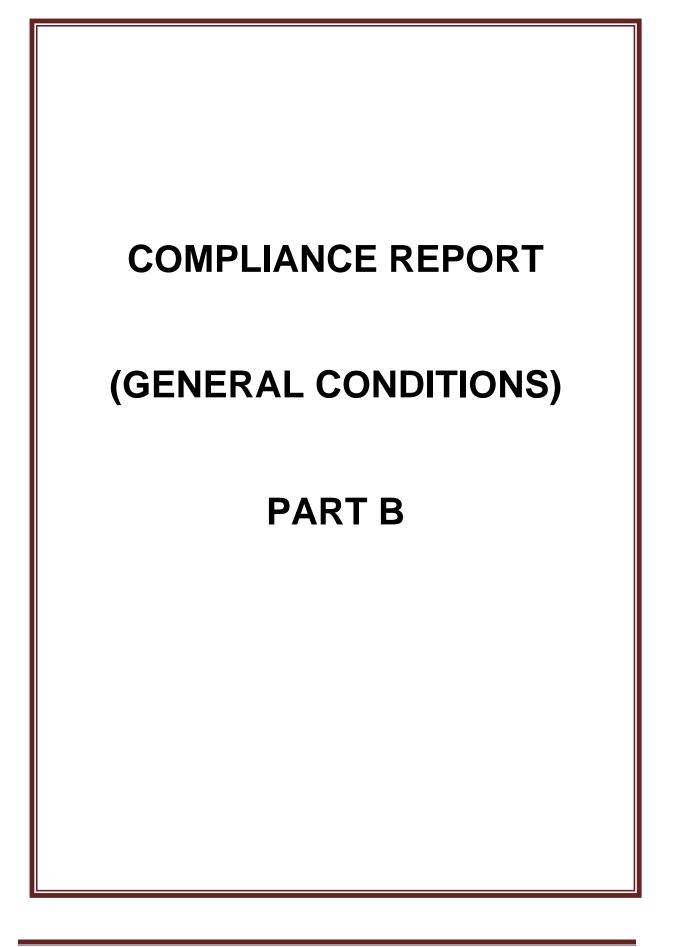
To reduce the inconvenience of community, the quarrying activities are limited to day time only as per KSPCB guidelines. The working time of quarrying is from 7 am to 6 pm.

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

Details of nearest hospital, Fire station, Police station, etc are available in the project site. The Photograph of the emergency contact numbers are attached as **Plate No. 5** 

Complied	Approach roads should be maintained properly.
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To arrest the dust emission and easy transportation, the approach road has been properly maintaining by the project proponent in the project site. The photograph of the approach road is attached as **Plate No. 11**.



## **PART – B – GENERAL CONDITION**

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

#### Compliance:

Rain water harvesting is a mitigation measure prescribed in Environment Management Plan. To collect rain water from the entire project land, the proponent has developed rain water harvesting pond in the quarrying area. The stored rain water is using for gardening & agriculture, wetting of roads, and other domestic purposes.

02	Environment	Monitoring	Cell	(EMC)	as	agreed	under	the	Complied
	affidavit filed	by the pro	ponen	t shoul	d be	e formed	and m	nade	
	functional.								

#### Compliance:

The project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. C G George as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the monitoring cell are given below in **Table No. 1**.

SI. No.	Post	Name
1	Head of monitoring cell	C G George
2	Member	Jovin George
3	Member	Malla Suresh

# Table 1 - Environmental Monitoring Cell (EMC)

# 03Suitable avenue trees should be planted along either side of the<br/>tarred road and open parking areas, if any, inclusive of approach<br/>road and internal roads.complied

The green belt can reduce the adverse effect of mining industry. To reduce air and noise pollution, the project proponent has planted various avenue trees along either side of the road. There are natural vegetations including trees, shrubs, herbs and climbers also present in the sides of road and parking area. The photograph of the sapling is attached as **Plate No. 14.** Photograph of plantation in the project site is attached as **Plate No. 16**. The purchase bill of plants is attached as **Annexure No.1** 

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

## Compliance:

As part of energy conservation, the project proponent has installed solar panels in the project site to generate and utilize maximum renewable energy.

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

## Compliance:

To reduce air pollution and to prevent dust emissions from the road while transportation of materials, the project proponent does splashes the haulage road and critical areas with the help of vehicles in regular intervals. The sprinklers are installed in the project site.

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

# Compliance:

As part of eco restoration, the project proponent has started to plant various saplings within the project area. The mine closure plan will be done at own cost of project proponent as agreed in the proposal.

07At least 10 percent out of the total excavated pit area should be<br/>retained as water storage areas and the remaining area should<br/>be reclaimed with stacked dumping and overburden and planted<br/>with indigenous plant species that are eco-friendly, if no other<br/>specific condition on reclamation of pit is stipulated in the EC.Noted

## Compliance:

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

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

## Compliance:

The project proponent has carrying out many activities for social integration and community development. The activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER) 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. The details of CSR provided in the period of second half is mentioned in **Table No. 2**.

Date	Date Activities	
25/9/2021	Raheem kuthuparamba	8463
16/9/2021	Kuthuparamba Police station	10000
14/4/2021	Chittariparamba sree kattil rayaroth kaavu	10000
24/5/2021	Dineshan chamathakkad (meterial)	10349
28/8/2021	Kpba muncipal car parking area	74864

# Table No.2 – CSR/CER Details

16/9/2021	Chandran, Poovan, Narikode mala	35000
19/6/2021	Babu K, 27TH Mile, Poolakutty	50000
	Total	198676

09	The lease area shall be fenced off with barbed wires to a	Complied
	maximum 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 installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. The photograph of the fencing is provided at **Plate No. 15.** 

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

# Compliance:

The alarm can intimate the general public and labours that the blasting is going to happen. As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms (Siren) in the quarry site. The photograph of the warning alarms are attached as **Plate No. 6** 

11	Control measures on noise and vibration prescribed by KSPCB	Complied
	should be implemented.	

# Compliance:

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

- > Proper maintenance of machinery and equipments
- The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.
- Personal protective devices i.e., 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 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.

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

## Compliance:

Quarrying activities are limited to day time only as per KSPCB guidelines. This will help to limit the sound pollution. The quarry working time is 7 am to 6.00 pm.

1	13	Blas	ting should b	e do	one in a cont	rolled manner	r as	specif	ied by	complied
		the	regulations	of	explosives	department	or	any	other	
		cond	cerned agency	<b>y</b> .						

## Compliance:

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

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

#### Compliance:

The project proponent has appointed mines manager and foreman in the site to supervise/control exploitation of minor minerals including blasting at the project site. Annexure No. 2 is showing the certificate of gualified person. The Annexure No. 3 Shows the Form D.

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

# Complied

#### Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent is maintaining the access road from the entrance of project site to guarry in good manner. The project proponent splashes water on the road to arrest the dust production during summer season. The Photograph of Access Road is attached as Plate No. 11.

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

## Compliance:

The overburden and topsoil extract during the time of mining, these natural resources is staked in the project site. This is being used for plantation, haulage roads and land filling in the mining area. To prevent soil erosion grass is planted on the overburden and topsoil. To prevent soil erosion grass is planted on the overburden and topsoil. OB is attached as Plate No. 12.

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

To enhance safety and conserve environment, the project proponent extracted the minerals by creating benches. The benches will not exceed 5 meters of height and the width of the bench will have minimum of 5 meters. The photograph of the benches are Provided in **Plate No. 13**.

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

## Compliance:

The project proponent is using mat during blasting time in order to prevent fly rock. The correct quantity of explosive is used under the supervision of qualified person. The project proponent is using ordinary detonator and NONEL technology for blasting. Therefore there is no issue with fly rock in the community.

# 19Maximum depth of mining from general ground level at site shallNotednot exceed 10m.

## Compliance:

The project proponent is following the approved mining plan for the exploitation of building stone. Therefore mining depth does not exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less.

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

# Compliance:

No mining operation is carried out with a slope greater than  $45^{\circ}$ .

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

To reduce sound amplification, the existing generators are enclosed, vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards.

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

## Compliance:

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

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

## Compliance:

The project proponent has provided Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.

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

## Compliance:

The project proponent assures the trucks are covered before it leaving the project site to arrest the dust emission while transportation of materials.

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

## Compliance:

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

# 26Disposal of spent oil from diesel engines should be as specifiedNotedunder relevant Rules/Regulations.

## Compliance:

The spent oil sold only to the approved recyclers, some time it is using as lubricant in the project site.

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

#### Compliance:

As per the stipulation of competent authority, the project proponent has storing the explosives in magazine. The magazine was situated in an isolated place specified and approved by the explosives department.

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

## Compliance:

To prevent possible fly rock and vibration to nearby houses, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project.

29	100	m	buffer	distance	should	be	maintained	from	forest	Noted
	bou	nda	ries.							

## Compliance:

The project proponent is maintaining a minimum of 100 meter buffer distance from forest boundaries.

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

The project proponent has obtained consent from KSPCB under Water and Air Act(s). The copy of certificate of "*Consent to Operate*" (Renewal) from Kerala State Pollution Control Board is provided in **Annexure No. 4.** 

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.4, 5, 6, 7& 8**. The details are given in **Table No 3** 

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

# TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES

32In the case of any change(s) in the scope of the project, extentNotedquantity, process of mining technology involved or in any wayaffecting the environmental parameters/impacts as assessed,based on which only the EC is issued, the project would requirea fresh appraisal by this Authority, for which the proponent shallapply and get the approval of this Authority.

At present there is no change in the scope of the project. The project proponent will apply for Environmental clearance in the case of any change(s) in the scope of the project.

33The Authority reserves the right to add additional safe guard<br/>measures subsequently, if found necessary, and to take action<br/>including revoking of the environment clearance under the<br/>provisions of the Environmental (Protection) Act 1986, to ensure<br/>effective implementation of the suggested safeguard measures<br/>in a time bound and satisfactory manner.Noted

# Compliance:

The project proponent is aware and agreed with right of authority to add additional safe guard 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.

34The stipulations by Statutory Authorities under different Acts and<br/>Notifications should be complied with, including the provisions of<br/>Water (Prevention and Control of Pollution) Act, 1974, the Air<br/>(Prevention and Control of Pollution) Act 1981, The Environment<br/>(Protection) Act, 1986, the public liability (Insurance) Act, 1991<br/>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

- 1. The Environment Protection Act, 1986
- 2. Water (Prevention and Control of Pollution) Act, 1974
- 3. The Air (Prevention and Control of Pollution) Act, 1981

- 4. The Public Liability (Insurance) Act, 1991
- 5. Municipal Solid Waste (Management and Handling) Act,2016
- 6. Hazardous and Other Wastes (Management and handling) Rules, 2016.
- 7. EIA notification, 2006

_		
35	The project proponent should advertise in at least two local	Complied
	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 <u>www.seiaakerala.org</u> . 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.	

An advertisement in two local newspapers regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. The copy of the advertisement given in two local newspapers is provided at **Annexure No.9.** The details of the news papers are given in the **Table No.4**.

SI. No.	News paper	Language	Date of edition
1	Deepika	Malayalam	02-10-2017
2	The Hndu	English	07-10-2017

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 Panchayath 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 letter to anyone. The Acknowledgement of the clearance letter sent to the panchayth is attached as **Annexure No. 10** 

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.	
1		

# Compliance:

The compliance report is being submitted to the District Environmental Impact assessment Authority, Kannur, State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore as mail. The results of Monitored data is attached as **Annexure No. 11, 12 & 13** 

38The details of Environmental Clearance should be prominently<br/>displayed in a metallic board of 3 ft x 3ft with green background<br/>and yellow letters of Times New Roman font of size of not less<br/>than 40. Sign board with extent of lease area and boundaries<br/>shall be depicted at the entrance of the quarry, visible to the<br/>public.Complied

As per the stipulation provided in Environmental Clearance order, the details of the Environmental Clearance are displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order. Sign board with extant of lease area and boundaries are depicted at the entrance of the quarry and it can be visible to the public. **Plate No. 7** is the photograph of the Metallic board.

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

# Compliance:

An assurance in the form of affidavit was already submitted to DEIAA, Kannur.

40	No change in mining technology and scope of working should					
	be made without prior appr oval 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 proponent is not intending to expand the area of mine, technology and scope of working. The project proponent will appear DEIAA, Kannur for Environment Clearance if the project proponent wants to expand its scope. The mining is progressing as per submitted plan.

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

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

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). The project proponent is intending to increase the splashing of water and installed sprinklers at loading, unloading and transfer points. This activity can reduce the fugitive emission.

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

The natural resources like top soil and overburden is being stacked in a designated place within the project site. Only topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place.

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 is intending to construct effective garland drains to catch all the storm water during the time of monsoon season. These channels will direct the water to the rain water collection pond. All sediments and silts will settle at the bottom of the pond and only cleared water will let out.

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<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 spraying water in critical areas prone to air pollution with the help of vehicle and sprinklers. The project proponent has initiated steps to install sprinklers in critical areas to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The water spraying has been carried out regularly to arrest the dust emission. The vehicle for water spraying is properly marinated.

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

## Compliance:

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

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

## Compliance:

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

48	Α	separate	e Env	/ironn	nental	Managem	ent	Cell	with	suit	able	complied
	qualified personal should be set up under the control of a senior											
	ex	ecutive,	who	will	report	directly	to	the	Head	of	the	
	Organization.											

## Compliance:

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

49 The funds earmarked for environmental protection and CSR Being 49 activities should be kept in separate account and should not be complied diverted for other purpose. Year wise expenditure should be

# reported to the State Environment Impact assessment authority (SEIAA) office.

## Compliance:

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

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

## Compliance:

The project proponent will extent all possible cooperation to the officers from 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 National Green Tribunal, if preferred within a period of 30					
	days as prescribed under section 16 of the National Green					
	tribunal Act, 2010.					

52 Concealing the factual data or submission of false/ fabricated Noted data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986. 53 The SEIAA may revoke or suspend the order, for non Noted implementation of any of the specific or this implementation of any of any of the above conditions is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

### Compliance:

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

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

### Compliance:

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

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

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

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

### Compliance:

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

# 58All vehicle used for transportation and within the mine shall<br/>have "PUC" certificate from authorized pollution taking center.compliedWashing of all vehicles shall be inside the lease area.

#### Compliance:

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

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

#### Compliance:

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

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

#### Compliance:

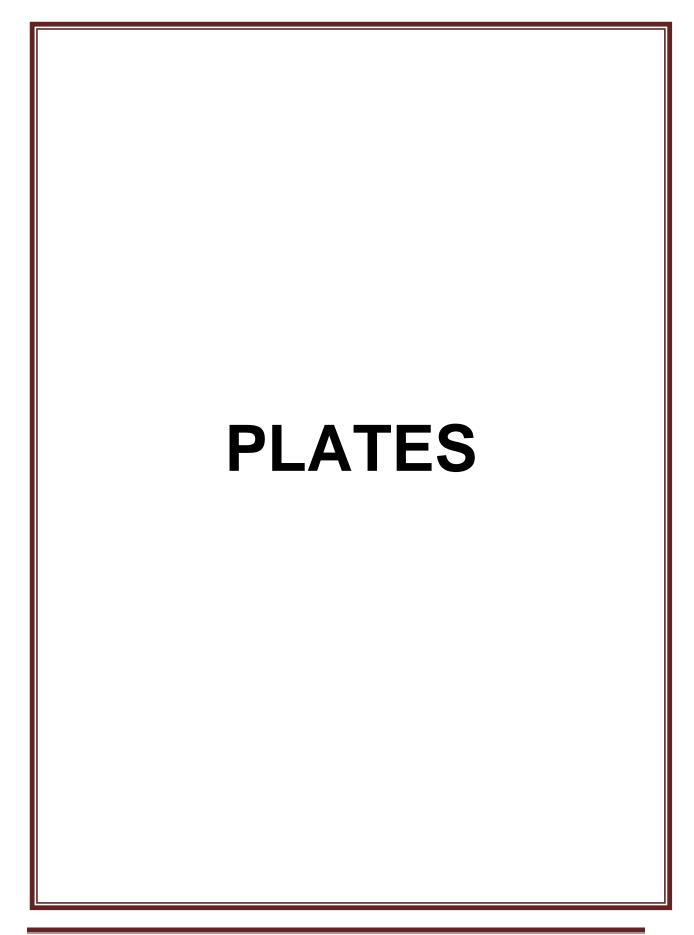
There is no stream or springs flowing in and around to the mine lease area. The project proponent will install de-siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.

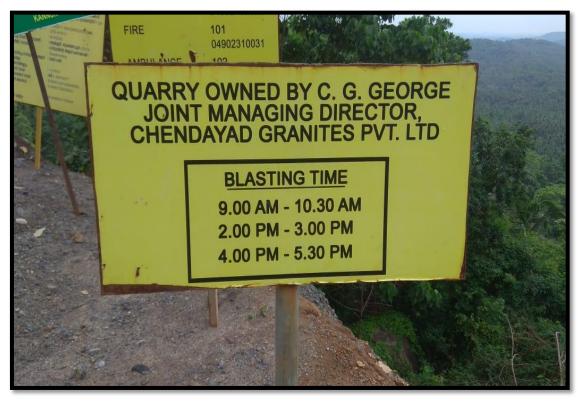
# 61Occupational health surveillance program of the workers should<br/>be under taken periodically to observe any contractions due to<br/>exposure to dust and take corrective measures, if needed.Complied

## Compliance:

.

The project proponent has started an occupational health surveillance programme for the labours working in mining area in association with Primary Health center.





Board showing blasting time

Plate No. 2



**Boundary Pillars** 



Sanitary Latrine and Urinals

Plate No. 4



No Smoking Board



Emergency Contact Numbers Plate No. 6



Warning Alarms

Plate No. 7 DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR

No: 45/KNR/2017/DEIAA. DATED 2.9.2017

VALIDITY EXPIRED ON: QUARRY PROJECT OF : 1.9.2022 C.G. GEO JOINT M M/S CHE

AREA : SURVEY NUMBER: VILLAGE: THALUK: DISTRICT: C.G. GEORGE JOINT MANAGING DIRECTOR M/S CHENDAYAD GRANITES PVT.Ltd 1.5176 HECTARES 275/1A TRIPANGOTTUR THALASSERY KANNUR



Metallic Board

Plate No. 8





Sign Boards
Plate No. 9



# First Aid Box



Resting Room Plate No. 11



Access Road

Plate No. 12



Overburden



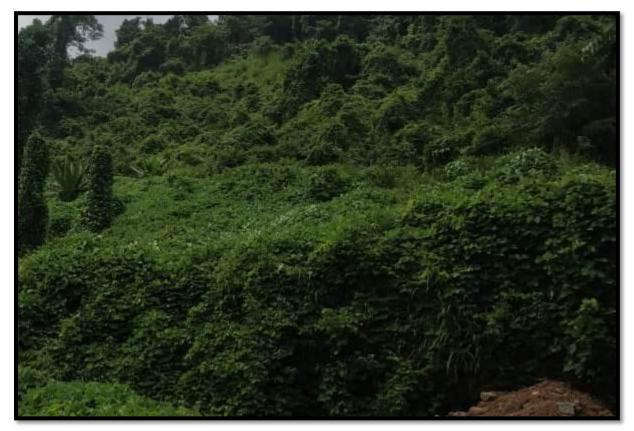
Mining Area Plate No. 14



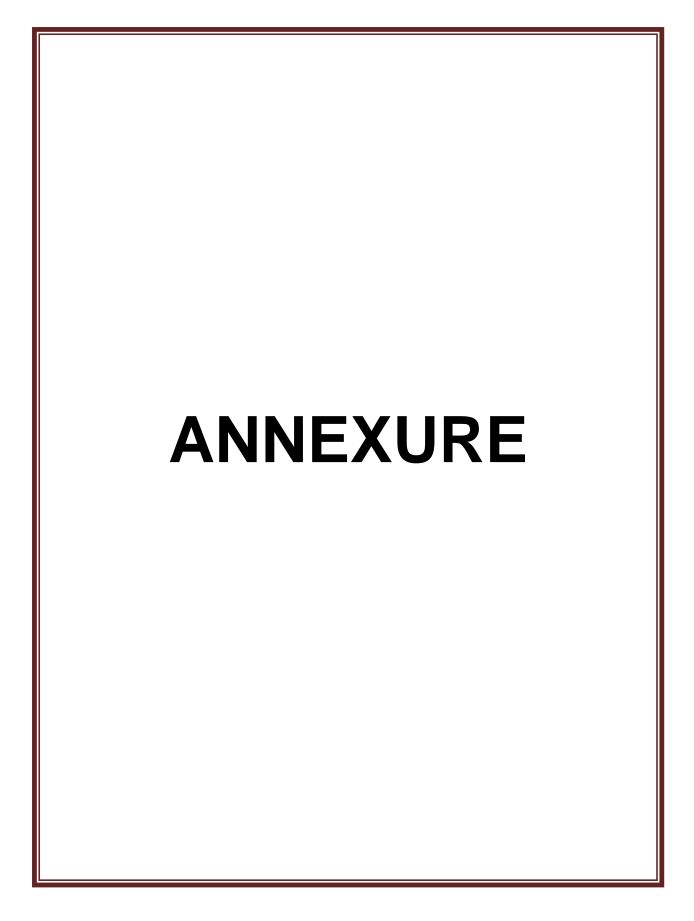
Eco restoration



Fencing Plate No. 16



Plantation



No. 8	0	To, <u>Chenda</u> Poi vette Vaili yan Date	6/05/20	221
Rate	Particulars	Qty	Amount	
	2 Jas nelminon	2010-10	2500	1
	2105 7.33	15	3000	-
-	BIST - agla	20	4000	-
				-
	and and the second			
	E .			
4		TOTAL	9500	-
elivery Dat	е	, i	Manager	N

Plant purchase bill

Cert No. FRE 38 28 SRINIVASA भारत सरकार/Government of India ALLANDE INCE GUDIA खान अधिनियम, 1952/Mines Act, 1952 खनन परीक्षा बोर्ड/Board of Mining Examinations फोरमैन सक्षमता ग्रमाण-पत्र FOREMAN'S CERTIFICATE OF COMPETENCY (केवल ओपनकास्ट खानों तक सीमित) (Restricted to mines having opencast working only) (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961) सुपुत्र मलला सुर्दी अप्पाराव है, को विहित अहंताएं एवं अनुभव प्राप्त करने श्री मल्ला स्टेश जिनको जन्म तिथि 12.07.1993 का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्द्वारा केवल ओपनकास्ट धात्विकीय खानों के लिए फोरमैन सक्षमता प्रमाण-पत्र प्रदान किया जाता है । यह प्रमाण-पत्र दिनांक 06.05.2016 से प्रभावी है । Shri Maila Suzesh son of Malla Suni Apparao born on 12 th July, 1993 having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted FORMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 06.05.2016 खनन परीक्षा बोर्ड खानन परीक्षा बोर्ड Secretary Board of Mining Board of Mining Examinations Examinations Signed and Sealed

Certificate of licensed Person

		[See clause (a) of rule 10 and	clause (m) of sub-rule (1) of rule 40]
			NOTICE
e.			
Fre	ent:		24,10,2017
	Joint Chen CP3/	C G George Managing Director dayad Granites Pvt Ltd C40, KSIDC Industrial Growth ce avalicham, Koothuparamba Moo	
To:			
	L. The I	District Magistrate,	
		ur District,	
		Regional Controller of Mines,	
	Yesv	vantpur.Benglore 560022	
	#5,1	7 <sup>th</sup> Main, 100ft. Road, 4 <sup>th</sup> B-Block oramangala,Bengaluru- 560.034	rate General of Mine and Safety South Zone.
1			M/S Chendayad granites pvt ltd
	4.	Name of Mine	Office: Poyiloor , Poyiloor P.O. Kannur Dist - 670 643, Kannur District, Kerala State.
	а. b.	Name of Mineral	Office: Poyiloor , Poyiloor P.O. Kannur Dist – 670 643. Kannur District, Kerala State. Granne Building Stone
	174.02		Office: Poyiloor P. O. Kannur Dist – 670 643. Kannur District, Kerala State. Granne Building Stone Lucation: Poyiloor Village: Thripangonior Village, Post office: Poyiloor P.O. Town: Thalassery, Taluk Thalassery District: Kannur, State: Kerala State.
	b. c.	Name of Mineral	Office: Poyiloor , Poyiloor P.O. Kannur Dist – 670 643. Kannur District, Kerala State. Grante Building Stone Lacation: Poyiloor Village: Thripangonor Village, Post office: Poyiloor P.O Town, Thalassery, Taluk Thatassery
2	b. c. d.	Name of Mineral Situation of Mine	Office: Poyiloor , Poyiloor P.O. Kannar Dist – 670 643. Kannar District, Kerala State. Granne Building Stone Location: Poyiloor Village: Thrippingottor Village. Post office: Poyiloor P.O. Town: Thalassery, Taluk: Thalassery District: Kannur, State: Kerala State. 15.01.2008 Shri C.G.George , Joint Managing Director Chendayad Granites Pvt Ltd CP3/C40 , KSIDC Industrial area Valiyavalicham , Koethuparamba Mooryad Post .670643
2	b. c. d. a)	Name of Mineral Situation of Mine Date when work was first started Name & postal address of present	Office: Poyiloor , Poyiloor P.O. Kannar Dist – 670 643. Kannar District, Kerala State. Grante Building Stone Lacation: Poyiloor Village: Thrippingottor Village. Post office: Poyiloor P.O. Town: Thalassery, Taluk: Thalassery District Kannur, State: Kerala State. 15.01.2008 Shri C.G.George . Joint Managing Director Chendayad Grantics Pvt Ltd CP3/C40 , KSIDC Industrial area Valiyavalicham , Koothuparamba Mooryad Post .670643
2	b. c. d. a)	Name of Mineral Situation of Mine Date when work was first started Name & postal address of present owner(s) Name & postal address of agents if any	Office: Poyiloor , Poyiloor P.O. Kammr Dist – 670 643. Kannin District, Kerala State. Granne Building Stone Location: Poyiloor Village: Thripangottor Village. Post office: Poyiloor P.O. Town: Thalassery, Taluk: Thalassery District: Kannur, State: Kerala State. 15.01.2008 Shri C.G.George , Joint Managing Director Chendayad Granites Pvt Ltd CP3/C40 , KSIDC Industrial area Valiyavalicham , Koethuparamba Mooryad Pest. 670643
	b. c. d. a)	Name of Mineral Situation of Mine Date when work was first started Name & postal address of present owner(s) Name & postal address of agents if any	Office: Poyiloor P.O. Kammr Dist = 670 643. Kannir District, Kerala State. Grante Building Stone Location: Poyiloor Village: Thripangontor Village. Post office: Poyiloor P.O. Town: Thalassery, Taluk Thalassery District: Kannur, State: Kerala State. 15:01-2008 Shri C.G.George . Joint Managing Director Chendayad Granites Pvt Ltd CP3/C40 , KSIDC Industrial area Valiyavalicham , Koothuparamba Mooryad Post .670643  Mr. Malla Suresh S/o. Malla Suri Appa Rao, Diploma in Mining Engineering Foreman's Certificate No.FRE/3828 w.e.f 06:05:2016 Valid up to 05:05:2021 Addressi Gavarapeta Street.Kasimkota,

	d.		2 years Experience
A	Wheth be Ext	er working are likely to ended below ground	Yes in future
\$ 5	a.		Above ground 4 meters from its highest to lowest point
T	b.	Date when depth exceeded 6 meter	Not Yet reached 6meter depth
6	a,	Nature, amount and kind of explosives used if any	Nitrate Mixture Class 2 division 0 Class 6 division 1 Class 6 division 3
	b.	Date when explosives were first used	27.02.2015
		anking You,	M/S Chendayad Granites Pvt Ltd (C.G.George) Joint Managing Director
	Da	te: 24.10.2017	

Form D

			K E R			
		KERALA	STATE POLLU	TION CONTRO	L BOARD	
	O. :PCB/K issue :07/(	NR/ICO/814/200 )5/2020	)8			
		INTEGRA	TED CONSENT	TO OPERATE - 1	RENEWAL	
Consent	No : PCB	/KNR/ICO-R/484/	2020			
2. Appli The ' Int Managir 30/04/20 Itd,Poilo	cation num egrated Con ng Director 025 and issu or P.O,Via order and th ERAL 1.1 VA 1.12 Al 1.12 FF	nber:12877998 dat nsent to Operate' iss Chendayad Granite ted to M/s Quarry C Panoor,Thalassery	sued as per reference s pvt ltd,Poiloor P.C Dwned By Sri.C G C The consent(s)/ vari to the conditions stip	e above to M/s Quarr D, Via Panoor, Thalass George , Joint Managi ation order(s) cited u pulated therein and th 30/04/2025 Rs. 5800/- Rs. 33030/- Granite quar	sery is hereby renew ng Director Chenday ander reference are i he following modifie Description Upper 1.5176 H	ed up to yad Granites pvt ntegral part of this cations/ additions.
II. Stac	<b>k Details</b> ck No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Hei	ght above Roof Level(In	Control Equipment
Sta		IS		Ground Level(In Meters)	Meters)	
	NDITION				3/02/2025.	

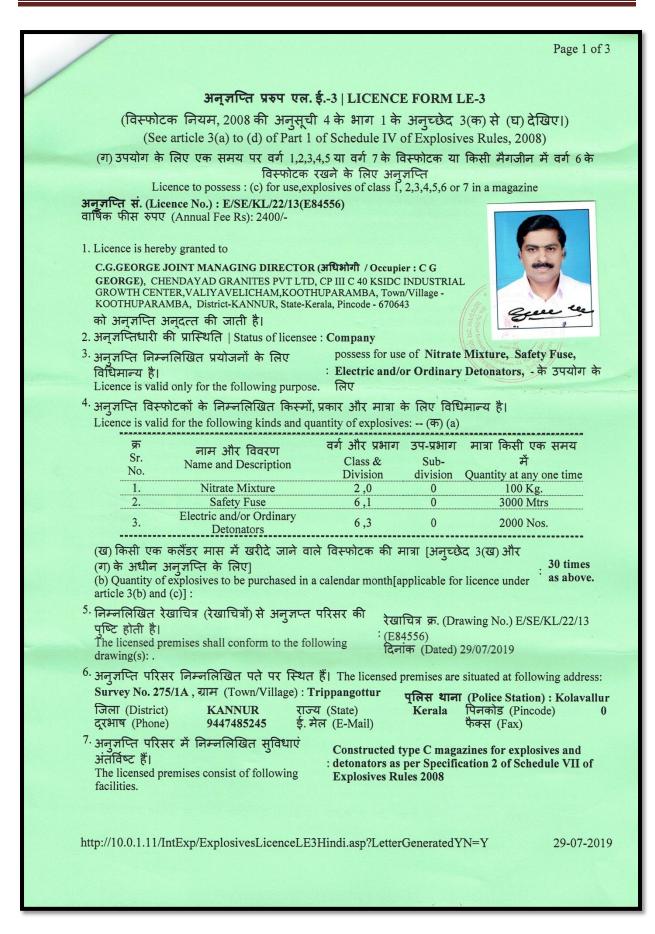
4.2 Permanent fence made of wire mesh shall be provided and maintained along boundary of the approved quarry area. 4.6 There shall be a minimum distance of 50 m from the boundary of the quarry to the nearest residence, places of worship, railway line, bridge, water body, public building and public road having vehicular traffic. 4.8 Location of quarry shall be as per the drawing attached .No change or alteration to the above shall be made. 4.11 This consent is renewed subject to the Environmental clearance number:19/2017 No 45/KNR/2017/DEIAA dated 02/09/2017 issued by District Environmental Impact Assessment Authority, Kannur 4.15 The PM 2.5 in ambient air at the boundary shall not exceed 60µg/m3. 4.16 The PM10 in ambient air at the boundary shall not exceed 100µg/m3. 4.17. This consent is valid only when the Environmental Clearance is valid. All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged. ANITA KOYAN Digitally signed by ANITA KOYAN Date: 2020.05.08 11:15:19 +05'30' SIGNATURE & SEAL OF ISSUING AUTHORITY DATE :17/04/2020 ENVIRONMENTAL ENGINEER То C.G. GEORGE, JOINT MANAGING DIRECTOR, CHENDAYAD GRANITES PVT LTD., KSIDC INDUSTRIAL GROWTH CENTRE, VALIYAVELICHAM, KOOTHUPARAMBA, KANNUR DT -670693 1. This digitally signed document is legally valid as per the Information Technology Act 2000 2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System. Page2 Copy of Consent form PCB

Volidity empires on 01 00 2022
Validity expires on 01.09.2022
सत्यमेव जयत
Proceedings of the District Environment Impact Assessment Authority
Kannur
Present: Sri.Mir Mohammed Ali I.A.S., Chairman; Sri.S. Chandrasekar I.A.S., Member Secretary & Sub Collector Thalassery;Sri.Suneel Pamidi.I.F.S.,Member and Sri. O Jayarajan I.F.S (Rtd) Member
Sub: DEIAA- Environmental clearance for the Proposed Granite (Building Stone) Quarry project for an area of 1.5176 Ha in Sy. No.275/1A, Trippangottur village ,Thalassery Thaluk, Kannur District of Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643
DISTRICT ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KANNUR
No. 45/KNR/2017/DEIAA Dated 02/09/2017, Kannur
<ul> <li>Ref: 1.Online Application dated 12 May 2017 from Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643</li> <li>2. Minutes of the 6<sup>th</sup> meeting of DEAC held on 15/06/2017.</li> <li>3.Minutes of the 7<sup>th</sup> meeting of DEAC held on 22/08/2017.</li> <li>4. Minutes of the 8<sup>th</sup> meeting of DEIAA held on 29/08/2017.</li> </ul>
<b>ENVIRONMENTAL CLEARANCE NO. 19/2017</b>
Mr. C. G. George, Joint Managing Director M/S Chendayad Granites Pvt Ltd, CP3/C40, KSIDC Industrial Centre, Valiyavalicham, Koothuparamba, Kannur, Kerala-670643 vide his application received on 12 May 2017, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project of an area of 1.5176 Ha in Sy. No.275/1A,Trippangottur village ,Thalassery Thaluk, Kannur District. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18 <sup>th</sup> May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. As per gazette notification no SO 190(E)dtd 20/01/2016, Government of India and GO(Ms)no.05/2016/Envt Dtd 04/04/2016,Govt:of Kerala DEIAA and DEAC constituted for considering the applications for environmental clearance less than 5 hectares in individual cases and 25 hectares in cluster
Page 1 of 8

Copy of Environmental Clearance

Page 1 of 2 Amedment Covering Letter भारत सरकार | Government of India वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO) पूर्व नाम-विस्फोटक विभाग | Formerly- Department of Explosives केन्द्रीय भेवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor CSEZ पी.ओ.कक्कानाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037 30 JUL 2019 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276 दिनांक (Date): 29/07/2019 संख्या (No.): E/SE/KL/22/13(E84556) सेवा में | To, / G.GEORGE JOINT MANAGING DIRECTOR, CHENDAYAD GRANITES PVT LTD, CP III C 40 KSIDC INDUSTRIAL GROWTH CENTER, VALIYAVELICHAM, KOOTHUPARAMBA, Town/Village - KOOTHUPARAMBA District-KANNUR, State-Kerala, Pincode - 670643 Survey No.275/1A, ग्राम Trippangottur, जिला KANNUR, राज्य Kerala में मेसर्स C.G.GEORGE JOINT विषय : MANAGING DIRECTOR द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेत् विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अन्जप्ति सं E/SE/KL/22/13(E84556) के संशोधन संदर्भ में। (विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन) Possession for Use of of Explosives from magazine situated at Survey No.:275/1A, Trippangottur, Dist. KANNUR, Kerala - Licence No.: E/SE/KL/22/13(E84556) granted in Form LE-3 of Explosives Rules, 2008 -Subject: (Amendment of Quantity of Explosives/Monthly Purchase Limit). महोदय | Sir. आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 29/07/2019 का संदर्भ ग्रहण करें। Please refer to your letter no. Nil dated 29/07/2019. अनुजप्ति संख्या E/SE/KL/22/13(E84556) विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन के संदर्भ में यथा संशोधित कर भेजी जा रही है। The Licence No.: E/SE/KL/22/13(E84556) is forwarded herewith duly amended in respect of followings ; Quantity of Explosives/Monthly Purchase Limit किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी। The licence capacity at any one time shall not exceed the kinds and quantities mentioned below ; इकाई क्षमता वर्ग प्रभाग उप-प्रभाग विस्फोटक संखया Capacity Explosive(s) Class Div Sub Div No Unit 0 100 2 0 Kg. Nitrate Mixture 1 0 3000 Mtrs 6 1 Safety Fuse 2 Electric and/or Ordinary Detonators 3 0 2000 Nos. 6 3 किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुजप्ति के लिए लाग्) : 30 गना Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 30 times as above. यह अन्जप्ति दिनांक 31 मार्च 2024 तक प्रवृत्त रहेगी। 29-07-2019 http://10.0.1.11/IntExp/AmdCoveringLetterHindi.asp?LetterGeneratedYN=Y

Amedment Covering Letter	Page 2
This Licence shall remain valid till 31st day of Marcl	h 2024.
	दर्भ को उद्धुत करते हुए भविष्य के संव्यवहार में समायोजित की जा
An amount of Rs. 400/- balance is in your credit, which	ch may be utilized for future transaction by quoting this reference.
अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोयटक पावती दें।	n नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कपय
For further revalidation(if required), please follow the p may please be acknowledged.	procedure under Rule 112 of Explosives Rules, 2008. Receipt of this le
	भवदीय   Your's faithfully h
	0
र्या म	(आर.वेण्गोपाल   Dr. R. Venugopal)
54 etc.	ख्य विस्फोटक नियंत्रक   Deputy Chief Controller of Explosives
	कोच्ची   Emakulam   Controller of Explosives
प्रतिलिपि प्रेषित   Copy Forwarded to:	Struggert Emakulam
<ol> <li>District Magistrate, KANNUR, Kerala with refe</li> <li>Superintendent of Police, KANNUR, Kerala.</li> </ol>	rence to his Noc No: 2014/65478/13/D1 Dated: 10/04/2015
	उप मुख्य विस्फोटक नियंत्रक   Deputy Chief Controller of Explosiv
	कोच्ची   Ernakulai
(अधिक जानकारी जैसे आवेदन की स्थिति, ध (For more information regarding status,fees	शुल्क आदि के लिए हमारी वेबसाइट http://peso.gov.in देखें.) and other details please visit our website http://peso.gov.in)
p://10.0.1.11/IntExp/AmdCoveringLetterHind	

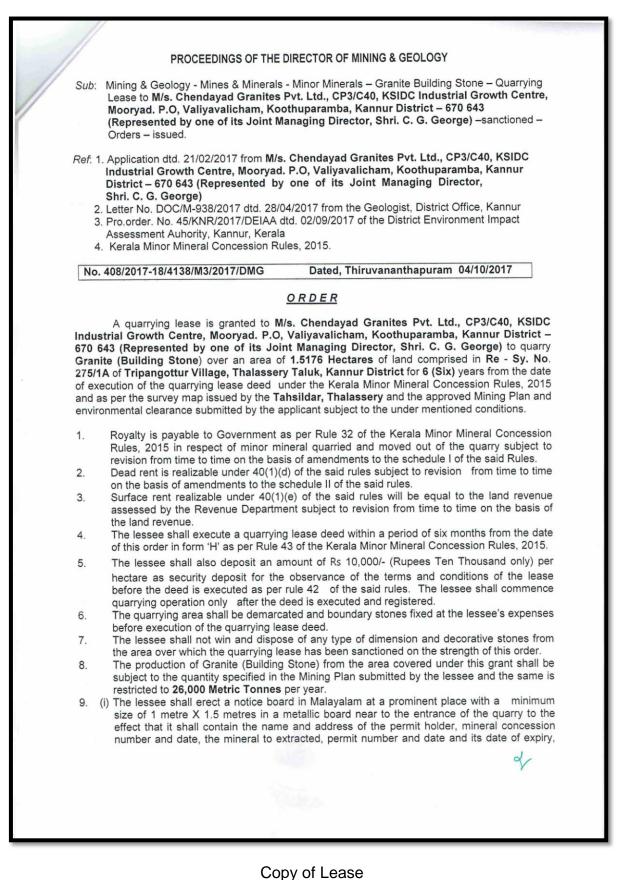


Page 2 of 3
8. अन् जप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित
• अनुजापत समय – समय पर पयारिसायस पर भवन के अधीन रहते विस्फोटक नियम, 2004 के उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों के अधीन रहते
हुए अनुदत्त की जाती है। The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following
Annexures. 1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते
हुए)। Drawings (showing site, constructional and other details) as stated in serial No. 5 above. 2. अनुज्ञप्ति प्राधिकारी व्दाररा हस्ता.क्षरित इस अनुज्ञप्ति की शर्ते और अतिरिक्ति शर्ते।
Conditions and Additional Conditions of this licence signed by the nechoning dualously
9. यह अनुज्ञप्ति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of
रुपा के अधीन जभा सामर्थित हम अनजप्ति की शतों का अधिक्रमण करने या याद अनुसप्त परिसर पाठाना
VII के अधान तथा उपपाणत इस अनुसा से अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा
सकती है, जहां वह लागू हो। This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and
Annexure attached hereto.
उप मुख्य विस्फोटक नियंत्रक   Dy. Chief Controller of
तारीख   The Date - 20/02/2015 Explosives Ernakulam
Amendments : • Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 10/01/2018 • Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 08/02/2019 • Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 29/07/2019 • Control of Control of Explosives/Monthly Purchase Limit dated : 29/07/2019 • Control of Control of Explosives/Monthly Purchase Limit dated : 29/07/2019
Transfers : • Change in Licensee Name/Address/Status dated : 29/02/2016 नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal
नवीकरण की तारीख समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
Date of Renewal Date of Date o
07/02/2019 31/03/2024 Dy. Chief Controller of Explosives, Ernakulam
कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध होगा। Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence
Statutory warning . Mishanding and a
http://10.0.1.11/IntExp/ExplosivesLicenceLE3Hindi.asp?LetterGeneratedYN=Y 29-07-2019

Copy of Explosive

നമ്പര്: 102/2021-2022/A-3/B3-1;	212/21	T. P. MUS Secre Triprangottoor Gr Kaliikkan തീയന	toru
കഭ്	ഴിക്കണ്ടി പി.ഒ., ക		a yo a syiyolaa waxay gorawa miloo To Yomaas
പിന്: 670693, ഫോണ്: വ്യവസായം, വാണ്		ചം, മറ്റ് സേവനങ്ങഗ	
ക്രെ.പി.ആർ ആക്ട് ഒ	സക്ഷൻ 232, FACT	eos ലൈസൻസ് ചട്ടങ	ദൾ 1996)
ലൈസൻസിയുടെപേര്	സി.ജി ജോർജ്ജ്		Selfer and the
ലൈസൻസിയുടെ മേൽവിലാസം	ജോയിന്റ് മാനേഃ പ്രൈ.ലി.,വലിയ	ദിംഗ് ഡയറക്ടര്,ചെണ്ടയാട് വെളിച്ചം	ഗ്രാനൈറ്റ്
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	ചെണ്ടയാട് ഗ്രാം	നെറ്റ് പ്രൈ.ലിമിറ്റഡ്	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽ ഖനന	ം നടത്തുന്നതിന്	
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	II/ດີາໜ.275/1	А	
ലൈസെൻസ് കാലാവധി	01/04/2021	മുതൽ 31/03/2022	വരെ 米
and the second	തുക	രസീത് നമ്പർ	തീയതി
ലൈസെൻസ് ഫീസ്	5000 /- രൂപ	120010106565	27/03/2021
മോട്ടോർ ഫീസ്		120010106565	27/03/2021
തൊഴിൽ നികുതി	2500 /- രൂപ	120010106566	27/03/2021
ലൈസെൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ ( നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം )	1. ലെPCB/KNR/ICO- VALIDITY 30/04/20. 2. Department of Min 2018,4138/M3/201 from09/10/2017) 3. ചീഫ് കൺട്രോ,	ർട്രോൽ ബോർഡിന്റെ 07/0 X/484/2020 നമ്പർ നിരാക്ഷേ 25) ing and Geology Kannur,Consen 7/DMG Dated 04/10/2017 Validi ളർ ഓഫ് എക്സ്പ്ലോസീവ് E84556) Renewed upto 31/03/20	പ പത്രം, ( t NO 408/2017- ty (6 years ലൈസൻൺ് (
ഓഫീസ് മുന്ദ		ത്യപ്രങ്ങോട്ടൂർ ഗ്രാ	സെക്രട്ടറി മപഞ്ചായത്ത്

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Advertisement in News papers

Geosa Dt. 08/09/2017 The Secretary, Tripangottoor Panchayat, Thalassery Taluk, Kannur District, Kerala. Sub:- Environmental Clearance (E.C.) - Proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala – Submission of the E.C. Order – Compliance to the condition of Environment Clearance - Reg. Respected Sir, 1. This refers to the Environmental Clearance obtained to the proposed Quarry Project at Re-Survey No. 275/1A, Tripangottur Village, Tripangottur Panchayat, Thalassery Taluk, Kannur District, Kerala vide Order No. 45/KNR/2017/DEIAA dt. 02/09/2017 2. We hereby submit a self attested copy of the Environment Clearance Order No. 45/KNR/2017/DEIAA dt. 02/09/2017. This is in compliance to the condition of the E.C. Order. Kindly acknowledge the receipt of the same. Thanking you, Yours respectfully, for Chendayad Granites Pvt. Ltd., Ser C.G George, (Joint Managing Director) Encl: As above Fw. Segretary Iriprangottoor Grama Panchava) Chendayad Granites (P) Limited. Kallikkandi-670 555 Building No.: CPIIIC40, KSIDC Industrial Growth Centre, Valiyavelicham, Koothuparamba, Pin: 670643 Kannur Dt., Kerala. Ph : 0490 2364300. Mob: 8113 041 112, 8113 041 113, 8113 041 114, 8113 041 119 e-mail: geosandin@gmail.com. www.geosand.in

Copy of acknowledgement

Test Report No: 2021061/R027       Date: 24-06-2021       Page 1 of 1         CUSTOMER DEVENES         CUSTOMER DEVENES         Gustomer Name & Address       Mr. C.G.George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District       Super Second
Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur DistrictCustomer ReferenceTest Request dt. 19-06-2021SAMPLE DETAUSProduct CategoryAtmospheric PollutionSample Code20210619/S027Sample NameAmbient AirSample Received on21-06-2021Sample Conditions at ReceiptFit for AnalysisTest Commenced on21-06-2021Sample byLab Authorized SamplerTest Completed on24-06-2021
Customer Name & AddressJoint Managin Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur DistrictCustomer ReferenceTest Request dt. 19-06-2021SAMPLE DETAURATIONSample Code20210619/S027Sample NameAmbient AirSample Received on21-06-2021Sample Conditions at ReceiptFit for AnalysisTest Commenced on21-06-2021Sample dbyLab Authorized SamplerTest Completed on24-06-2021
SAMPLE DETAILS         Product Category       Atmospheric Pollution       Sample Code       20210619/S027         Sample Name       Ambient Air       Sample Received on       21-06-2021         Sample Conditions at Receipt       Fit for Analysis       Test Commenced on       21-06-2021         Sampled by       Lab Authorized Sampler       Test Completed on       24-06-2021
Product CategoryAtmospheric PollutionSample Code20210619/S027Sample NameAmbient AirSample Received on21-06-2021Sample Conditions at ReceiptFit for AnalysisTest Commenced on21-06-2021Sampled byLab Authorized SamplerTest Completed on24-06-2021
Sample NameAmbient AirSample Received on21-06-2021Sample Conditions at ReceiptFit for AnalysisTest Commenced on21-06-2021Sampled byLab Authorized SamplerTest Completed on24-06-2021
Sample Conditions at ReceiptFit for AnalysisTest Commenced on21-06-2021Sampled byLab Authorized SamplerTest Completed on24-06-2021
Receipt     Fit for Analysis     Test Commenced on     21-06-2021       Sampled by     Lab Authorized Sampler     Test Completed on     24-06-2021
T J I I I I I I I I I I I I I I I I I I
DETAILS OF SAMPLING
Sampling Location     South West Boundary, Poyiloor     Date of Sampling     19-06-2021       Sampling Procedure     SEAAL/ENL/GEN/SOP/02     Humidity     73%
Survey No         275/1 A           Village         Thripangottor         Taluk         Thalassery
District Kannur State Kerala
TEST RESULTS- CHEMICAL PARAMETERS
SI. No.         PARAMETERS         TEST METHOD         UNIT         RESULT         NAAC Standar
1         Particulate Matter, PM <sub>10</sub> IS 5182 (Part 23):2006         μg/m <sup>3</sup> 43.6         Max 10
2 Particulate Matter, $PM_{2.5}$ EPA 40 CFR (Part 50) Appendix – L $\mu g/m^3$ 19.7 Max 6
3 Sulphur Dioxide as SO <sub>2</sub> IS 5182 (Part 2): 2001 RA 2017 $\mu g/m^3$ < 2.00 Max 8
$\label{eq:alpha} 4  Oxides \ of \ Nitrogen \ as \ NO_2 \qquad IS \ 5182 \ (Part \ 6): \ 2006 \ RA \ 2017 \qquad \mu g/m^3 \qquad < 2.00 \qquad Max \ 8  No_2 \qquad N$
Remarks: ***End of Report***
Shency Joy Dy.TM-Chemical
Checked by: Authorized Signatory The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the labo

Result of Air

		ronmental M	01110111	5	REPORT				
Test F	Report No	o: 20210619/	R028		Date: 24-06-20	021		Page 1 of 1	
				CUSTOM	ER DETAILS	I			
Customer Name & Address			Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District						
Custo	omer Refe	erence	Test Re	equest dt. 19-06	5-2021				
	2. 622 22				F MONITORING				
	ct Catego			heric Pollution	Sample Code	1	-	0619/S028	
	e Name oring Loca	ation	Ambient Noise North Side Boundary, Poyiloor		Monitoring Commenced on Monitoring Completed on			19-06-2021/ 06:00 20-06-2021/ 06:00	
Test M	lethod			:1981 RA:2008	Monitored by		Lab	Authorized Sampler	
Summe	v No		275/1 A		G SITE DETAILS				
Survey			Thripan		Taluk		Thalas	ssery	
Distric			Kannur		State		Kerala	~	
			_		FRESULTS - Leq				
	IME 6:00	RESULTS 0 37.6	dB(A)	14:00	<b>RESULTS dB(A)</b> 50.4	<b>TIM</b> 22:0		RESULTS dB(A 36.5	
	7:00	40.4		15:00	50.8	23:0	_	32.9	
	8:00	44.6		16:00	52.0	24:0		35.3	
	9:00 0:00	48.1		17:00 18:00	52.4	01:0		35.9 35.6	
	1:00	53.5		19:00	43.5	03:0		36.3	
	2:00	50.8		20:00	39.6	04:0	5 A 25A	35.3	
13	3:00	50.1		21:00	39.1	05:0	00	37.0	
S1.	1		TESI	RESULTS- CI	IEMICALPARAME?	TERS			
No.			PAR	AMETERS		UNIT		RESULT	
1				y Time (06:00 to :		dB(A)		48.9	
2 Remar		t Sound Level (	Leq) Nig	ht Time (22:00 to	06:00)	dB(A)		35.6	
		Smt	_	***End	of Report***	(	BAY	summer	
	Dy.1	hency Joy FM-Chemical hecked by:			Usterstill	A	Labo	<b>aiju P.N.</b> ratory Head ized Signatory	
The resu		-	ubmitted for	r analysis and this test re	port shall not be reproduced exc			0 0	
K.		oval & Recognit	t <mark>ion: "A"</mark> amandal	Grade Laboratory P.O., Ernakulam-6	al & Analytical La / approved by Kerala S 33 501, Tel. 0484-2546 E-mail: seaalab@gmail	tate Pollut 660, 93 87	ion Cor		

**Result of Noise** 

			TEST REPOR	<u>T</u>			
Test	Report No: 202106	19/R0	D29 Date:	24-06-202	1	Page 1 of 2	
			CUSTOMER DETA	ILS			
Customer Name & Address Customer Reference			Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District Test Request dt. 19-06-2021				
			SAMPLE DETAIL	S			
Product Category Sample Name Sample Conditions at Receipt Sample Quantity& Packing Sampled by		eipt H	Surface Water Fit for Analysis IL & 250ml Plastic Bottles Lab Authorized Sampler DETAILS OF SAMP		eived on e @ Receipt nced on ted on	20210619/S029 21-06-2021 5°C 21-06-2021 24-06-2021	
			ENL/GEN/SOP/01&	Date of Sam Sample Tem		19-06-2021 30 °C	
Samp	SI SI	CAAL/	MBL/SOP/06 SAMPLING SITE DE'		perature	50 0	
Sl.No.	PARAMETEI		Star TEST RESULTS- CHEMICAL TEST METHOD		ERS RESULT	Requirement as per Acceptable Limit of IS 10500: 2012	
1	Colour		IS 3025 (Part 4):1983 RA 2017		1.0	Max 5	
2	Odour Turbidity		IS 3025 (Part 5):2018 IS 3025 (Part 10):1984 RA 201	7 NTU	Agreeable 0.3	Agreeable Max 1	
0	pH		IS 3025 (Part 11):1983 RA 201		6.78	6.50 - 8.50	
4	Conductivity		IS 3025 (Part 14):1984 RA 201		94.6		
4 5	conductivity	ids	IS 3025 (Part 16):1984 RA 201	7 mg/L	62.3	Max 500	
	Total Dissolved So			9 mg/L	25.7	Max 200	
5			IS 3025 (Part 21):2009 RA 201			34 77	
5 6	Total Dissolved So Total Hardness as		IS 3025 (Part 21):2009 RA 201 IS 3025 (Part 40):1991 RA 201	9 mg/L	8.13	Max 75	
5 6 7	Total Dissolved So Total Hardness as CaCO <sub>3</sub>			0,	8.13 3.67	Max 75 Max 30	



#### TEST REPORT

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	Т	EST RESULTS- CHEM	IICAL PA	RAMETE	RS				
Sl.No.	PARAMETERS	TEST METHO	D	UNIT	RE	SULT	Requirement as per Acceptable Limit of IS 10500: 2012		
10	Chloride as Cl	IS 3025 (Part 32):1988	RA 2019	mg/L	1	1.3	Max 250		
11	Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part 23):1986	RA 2019	mg/L	2	23.9	Max 200		
12	Iron as Fe	IS 3025 (Part 53):2003	RA 2019	mg/L	C	0.37	Max 1		
13	Sulphate as SO <sub>4</sub>	IS 3025 (Part 24):1986	RA 2019	mg/L	2	2.65	Max 200		

Sl.No.	PARAMETERS	ST RESULTS – BIOLOGIC. TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012	
1	Total Coliform Bacteria	IS 15185 : 2016		Absent/100 ml	Absent/100 ml	
2 Remarl	E coli	IS 15185 : 2016		Absent/100 ml	Absent/100 ml	
	Jla		C		19	
1	Shency Joy	Standard a	Salini T.:		Romm Jon Laiju P.N.	
_	<b>Dy.TM-Chemical</b>		licrobiolo	gist Lab	oratory Head	
The resu	Dy.TM-Chemical Checked by		licrobiolo horized Si	gist Lab gnatory Autho	oratory Head orized Signatory	

Result of Water