

COMPLIANCE REPORT

M/s CHENDAYAD GRANITES PVT LTD

(QUARRY PROJECT)

KANNUR District

Kerala

April 2019 - September 2019



Dt.17-12-2019

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

Ref :- File No. 45/KNR/2017/ DEIAA

**Sub :- Environment Clearance – Quarry project at Trippangottur Village,
Thalassery Taluk, Kannur District, Kerala – Compliance Report – First half -
Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for **1.5176 Ha.** by order No. **45/KNR/2017/ DEIAA** dated 02-09-2017 by District Environmental Impact Assessment Authority, Kannur, Kerala. The compliance report of **First half** (April 2019 – September 2019) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you, **for CHENDAYAD GRANITES PRIVATE LIMITED**

Yours respectfully,

Managing Director

For M/S Chendayad Granites Pvt. Ltd

Copy to:-

Member Secretary, SEIAA, Trivandrum

Member Secretary, DEIAA, Kannur

OR

RDO , Kannur

 Chendayad Granites Private Limited
Building No.CPIIIC40,KSIDC Industrial Growth Centre,Veliyavelicham,Koothuparamba,Pin:670643,
Kannur Dt.,Kerala. Mobile:811304 1112, 811304 1113, 811304 1115 E-mail:geosandin@gmail.com
www.geosand.in, www.geomix.co.in

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 45/KNR/2017/ DEIAA

Dated: 02-09-2017

BY

**DISTRICT ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(DEIAA)**

FOR

**BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT**

AT

SURVEY NOS. 275/1A

TRIPANGOTTUR VILLAGE, THALASEERY TALUK

KANNUR DISTRICT, KERALA

BY

M/s Chendayad Granites Pvt. Ltd

KANNUR DISTRICT

KERALA

INDEX

Sl. No.	Particulars	Page No.
1.	Introduction	07
2.	Compliance Report – Specific conditions – Part A	08
3.	Conditions of Health	15
4.	Compliance Report – General conditions – Part B	18
5.	Plates	40
6.	Annexure	48

LIST OF PLATES

Plate No.	Particulars	Page No.
1.	Photograph of Board showing blasting time	40
2.	Boundary Pillars	40
3.	Sanitary latrine and urinals	41
4.	No Smoking Board	41
5.	Photograph of Emergency Contact Numbers	42
6.	Photograph of Warning Alarm	42
7.	Photograph of metallic board	43
8.	Photograph of sign Boards	43
9	Photograph of FA Box	44
10	Photograph of Resting Room	44
11	Photograph of Access Road	45
12	Photograph of Over burden	46
13	Photograph of Mining Area	46
14	Eco restoration	47

LIST OF ANNEXURE

Annexure No.	Particulars	Page No.
1.	Details of CSR Activities	49
2.	Receipts of Annexure	50
3.	Copy of Licensed Person	52
4.	Copy of Form D	53
5.	Copy of the “ <i>Consent to Operate</i> ” from Kerala State Pollution Control Board (Renewal)	55
6.	Copy of E C order	57
7.	Copy of Explosive License issued by the Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	58
8.	Copy of License for quarry operations from <i>Gram</i> Panchayath	59
9.	Copy of permit from mining and Geology Dept.	60
10.	news paper where advertisement published	61
11.	Copy of acknowledgement	62
12.	Copy of result of ambient air	63
13.	Copy of results of sound	64
14.	Copy of result of Water	65

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 2019 – September 2019** is being submitted.

The quarry operation was closed down from 07-08-2019 to 02-12-2019 due to the rain. This was by the direction of District Administration.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A – SPECIFIC CONDITIONS

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

As per the Mines Act 1952, the project proponent has appointed Mines manager to control, direct, manage and supervise the quarrying operations. 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 implemented	complied
-----------	---	-----------------

The project proponent has been conducting health check up for the labours once in a year in association with Primary Health Centre of Local Self Government. The project proponent has a health and welfare policy for the persons employed in the project site. A First aid box is keeping in the project site. Other facility of housing, food, water and sanitation has been providing by the project proponent.

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

The blasting is done in controlled manner by using ordinary and electric delayed detonators to reduce ground vibration. All blasting activities are carrying out with the stipulated guidelines of explosive department and other concerned agency. No work is being carried out 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 adequate width around the mining lease area excluding the rocky area, along roads, overburden dumps and non-mineralized area by planting suitable native species in consultation with the local DFO/Agriculture department.	Being Complied
-----------	--	-----------------------

Various saplings were planted 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. To plant the native species in the project site the project proponent has taken suggestion from the agricultural department. More than 50 saplings were planted in the project site during April 2019 to September 2019.

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

To maintain the efficiency of drain and de siltation chambers, the project proponent has assigned labours to clean the same. The project proponent has constructed De siltation chambers to arrest the quarry waste entering in to the public drain and stream.

06	Fencing shall be maintained properly all around the lease area.	Complied
-----------	--	-----------------

To demarcate the lease area, the project proponent has installed fencing around the project site where Environmental Clearance obtained. This helps to prevent falling of animals/human being/dumping of garbage etc.

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

CSR has redrafted with including the felt needs of the locality with special emphasize or implementing ground water recharging techniques.

08	Appropriates sign boards should be displayed.	Complied
-----------	--	-----------------

The project has installed appropriate sign board in the 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 aware the labours and general public about the blasting a board containing blasting time has displayed in the project site. The board showing the blasting time is attached as **Plate No. 1**

10	Dust suppression mechanism must be in place.	Complied
-----------	---	-----------------

To prevent dust emission, sprinklers are installed in the project site. This help to suppress dust during the time summer season. Splashing of water by using tanker vehicle can reduce the dust emission in an extent. The splashing of water on haulage road

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

Project proponent demarcated a small plot to preserve the endemic species in the project site. The project has started to plant various saplings in the project site as part of eco restoration.

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

The project is using ordinary/electric delayed detonator for blasting therefore there is no incident of fly rock is happened in the community. The project is also assuring the maximum PPV is under 10 during the time of blasting.

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

To reduce the air and noise pollution the project proponent has been planting carious saplings at buffer zone and around the lease area to develop a good Green belt around the project area in addition to the existing vegetation .

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

. 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. The extraction of minerals will be from top to bottom. All mining activities are progressing under the supervision of qualified personals The exploration will be done as per the plan submitted before District Environment Impact Assessment Authority (DEIAA), Kannur.

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

The labours works on the bottom of the bench, only after clearing loose minerals form the side wall. The machines like JCB is using to remove the loose or hanging mineral boulders in the Mining area.

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

Boundary pillars has fixed permanent in the project site before commencing quarrying to demarcate the project site. The photograph showing the boundary pillars are attached as **Plate No. 2**

17	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 of rain free situation arises in the quarry locality based on the evaluation by the revenue officials.	Noted
-----------	--	--------------

The direction is being followed by the project proponent. At present the project proponent has resumed all quarrying and related activities due to rain. This will restart only after the direction of revenue officials.

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

The waste dumps and topsoil dumps are staked at a designated area. To stabilise the dump started to plant various grass and shrubs. Proper drainages are being constructed by the project proponent to diverted the storm water away form the dump slopes.

19	All dumps slopes shall be sufficiently stabilized by using 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.	Noted
-----------	--	--------------

Overburden is an inevitable by-product of building stone quarry. The overburden materials are stored within the site at designated place. The overburden

and topsoil stacking is progressing, the project proponent is being planted appropriate grass on the dump to prevent sliding and soil erosion.

20	Garland drains of at least 2m width shall be provided all along 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.	Noted
-----------	--	--------------

The project proponent has constructed garland drain to catch the rain water along 7.5 m buffer zone. This can divert the storm water entering the quarrying slopes. The drains are properly de silted every year.

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

. The project has constructed storm water drains in the lower slopes of the project area for effective management of storm water. The water from the garlands drainage will direct to the silt settling ponds. The clarified overflow from silt settling ponds shall 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 width and strength (not less than 2m) shall be constructed at the bottom of the slope of the quarry lease area to arrest any likely roll of boulders during heavy rainfall.	Being complied
-----------	--	-----------------------

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

COMPLIANCE REPORT

(GENERAL CONDITIONS)

HEALTH

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

The project proponent has kept first aid box in the project site. Selected labours from the project site have given special training on First Aid in order to provide first aid during injuries happen to the labours in the project site. Same is attached as **Plate No.9.**

02	Whole some drinking water should be provided.	Complied
----	--	-----------------

The potable water is available at all time in the project site for drinking and other domestic purposes of labours and other staffs.

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

To reduce the emission of dust the project splashes water on haulage roads and loading and unloading point. A vehicle is deployed for the same purpose.

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

The project proponent has arranged sanitary type of latrine and urinals to every labour in the 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 Act.	Complied
----	---	-----------------

No smoking board has displayed 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.

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

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**

09	Approach roads should be maintained properly.	Complied
----	--	-----------------

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.**

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART – B – GENERAL CONDITION

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

Compliance:

As part of Rain water conservation and to collect rain water from the entire project land, the proponent has developed one rain water harvesting pond in the quarrying area. The pond is developed from mined quarry pit. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. The storm water flow is leading to the pond through natural drainage. 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 affidavit filed by the proponent should be formed and made functional.	Complied
-----------	---	-----------------

Compliance:

The Environmental Monitoring Cell (EMC) will be formed with Mr. C.G George as head of the monitoring cell. The EMC meeting convenes regularly ion every month to evaluate and monitor quarrying work in connection with the specific and general conditions stipulated in the Environmental Clearance (EC) order. The details of the monitoring cell are given below:

Table 1 - Environmental Monitoring Cell (EMC)

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

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

Compliance:

To enhance vegetation and prevent air pollution, the project proponent has planted more than 50 different avenue trees either side of the roads, parking area and other areas in the project land. There are natural vegetations including trees, shrubs, herbs and climbers also present. The photograph of the sapling is attached as **Plate No. 14.**

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

Compliance:

As part of energy conservation, the project proponent has installed solar panels for labour quarters. This can help to generate and utilize energy from solar panels/solar panels in the project site.

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

Compliance:

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

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

Compliance:

As part of eco restoration, the project 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.

07	At least 10 percent out of the total excavated pit area should be 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.	Noted
-----------	--	--------------

Compliance:

The project is intending to 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 project will plant indigenous plant species that are eco – friendly on the reclaimed area.

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

Compliance:

As part of inclusive growth of the community, the project proponent executes various activities under Corporate Social Responsibility of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The details of CSR provided in the period of first half is mentioned in **Annexure No. 1** The receipts of the CSR activity are provided at **Annexure No.1A**.

09	The lease area shall be fenced off with barbed wires to a 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.	Complied
-----------	--	-----------------

Compliance:

To prevent falling of animals/human being/dumping of garbage etc, the project has erected barbed metal wire fencing around the mining area with height of 5 ft. The proponent is intending to install fencing where ever it is missing.

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

Compliance:

As per the stipulation of Explosive department, the project has installed warning alarms in the quarry site. This warning alarm is properly working prior to the blasting time. The photograph of the warning alarms are attached as **Plate No. 6**

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

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.

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

Compliance:

Quarrying activities are limited to day time only as per KSPCB guidelines. The quarrying time is from 7 am - 6 pm.

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

Compliance:

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

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

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 qualified person. The **Annexure No. 3** Shows the Form D.

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

Compliance:

To contain dust emissions, the project has maintaining the access road to the quarry site. The project is spraying water on the road to arrest the dust production during summer season. Photograph of Access Road is attached as **Plate No. 11**

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

Compliance:

Overburden is an inevitable by-product of building stone quarry. The overburden and topsoil extracts during the time of mining are being staked in the project site. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site. OB is attached as **Plate No. 12.**

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

Compliance:

The quarrying activity in the project is progressing by creating benches of 5m width and 5m height. Mining Area is attached as **Plate No. 13.**

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

Compliance:

The project is yet to use mats 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 and the project is also assure the maximum PPV is under 10.

19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Noted
-----------	--	--------------

Compliance:

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

20	No mining operations should be carried out at places having a slope greater than 45°.	Noted
-----------	--	--------------

Compliance:

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

21	Acoustic enclosures should be provided to reduce sound 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.	Noted
-----------	---	--------------

Compliance:

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. The project proponent is trying to enhance the vegetative cover by planting more tree saplings.

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

Compliance:

To ensure the safety of workers in working site, the project provided adequate Personnel Protective Equipments (PPE) such as helmets, ear plugs, safety belts, glows, etc.

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

Compliance:

The project proponent ensures that all storm water from the mining area is flowing in to the pond created at mining area. The project proponent is intending to create garland drains where it is necessary in the project area for storm water management.

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

Compliance:

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

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

Compliance:

The project started to plant various saplings in the project area as a compensation of loss of trees while the project is clearing the land for mining.

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

Compliance:

The spend oil will be 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 specified and approved by the explosives department.	Complied
----	--	-----------------

Compliance:

Explosives are stored in magazine. The magazine 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 quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	Complied
----	---	-----------------

Compliance:

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is 50 meter from mining area. The distance of the nearest house from the instant project is above 100 meter from the quarry.

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

Compliance:

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

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

Compliance:

The Project has obtained "Consent to Operate" (Renewal) from Kerala State Pollution Control Board. The copy of consent is provided in **Annexure No. 4**.

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

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**

TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES

Name of the Statutory approval	Name of the Statutory authority
<i>“Consent to Operate”</i>	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

32	In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental 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.	Noted
-----------	--	--------------

Compliance:

In case of any change(s) in the scope of the project, the proponent will apply for fresh appraisal to get the Environmental Clearance.

33	The Authority reserves the right to add additional safe guard 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.	Noted
-----------	---	--------------

Compliance:

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

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

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 news papers widely circulated in the region, one which (both advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and the copy of the same signed in all pages should be forwarded to the office of this authority as confirmation.	Complied
----	--	-----------------

Compliance:

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**.

Table No.4- Details of advertisement in news papers

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

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

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 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	Complied
----	---	----------

	the respective Regional Office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.	
--	---	--

Compliance:

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

38	The details of Environmental Clearance should be prominently 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.	Complied
-----------	---	-----------------

Compliance:

The conditions of Environmental Clearance are prominently displayed in a metallic board. The details of the environmental clearance displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font. **Plate No. 7** is the photograph of the Metallic board.

39	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously 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 approval of the SEIAA, No further	Noted
-----------	---	--------------

	expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	
--	---	--

Compliance:

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

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

Compliance:

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

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

Compliance:

The monitoring of Ambient Air Quality is carried out based on the notification 2009. The project proponent has monitored the ambient air quality as per National Ambient Air quality Standard (NAAQS). The project 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 45⁰. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the bump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Noted
----	---	--------------

Compliance:

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

Compliance:

The project proponent has constructed effective garland drains to catch all the storm water during the time of monsoon season. These channels will direct the water

to the rain water collection pond. All sediments and silts will settle at the bottom of the pond and only cleared water is letting out.

45	Effective safeguard measures such as regular water sprinkling shall be carries out in critical areas prone to air pollution and having high levels of PM₁₀ 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.	complied
----	--	-----------------

Compliance:

To prevent dust emissions, the project proponent has initiated 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 regularly. Water spraying arrangements on haul roads, loading and unloading and at transfer point should be provided and properly maintained.	complied
----	---	-----------------

Compliance:

To reduce the dust emission in critical areas such as loading and unloading points, haul roads and transfer points the project proponent splashes water.

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

Compliance:

The main sound generating activities are the playing of jack hammer, breaker, vehicles and blasting operations. The level noise from all these activities will not go

beyond 85dBA. The project proponent will take appropriate action to reduce the sound by employing possible measures. These are mentioned under the condition number 11.

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

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

50	The Regional Office of MoEF &CC located at Bangalore shall monitor 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.	Noted
----	---	--------------

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.	Noted
----	--	-------

52	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.	Noted
----	--	-------

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

Compliance:

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

54	The above conditions shall prevail not withstanding anything to the contrary, in consistent, or simplified, contained in any other	Noted
----	--	-------

	permit, license on consent given by any other authority for the same project.	
--	--	--

Compliance:

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

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

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

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

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 have “PUC” certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	complied
-----------	--	-----------------

Compliance:

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

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

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 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.	Noted
-----------	--	--------------

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 to the public drainage system.

61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to 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.

.

PLATES

Plate No. 1

Board showing blasting time

Plate No. 2

Boundary Pillars

Plate No. 3



Sanitary Latrine and Urinals

Plate No. 4



No Smoking Board

Plate No. 5

Emergency Contact Numbers

Plate No. 6

Warning Alarms

Plate No. 7



Metallic Board

Plate No. 8





Sign Boards

Plate No. 9



First Aid Box

Plate No. 10



Resting Room

Plate No. 11



Access Road

Plate No. 12



Overburden

Plate No. 13



Mining Area

Plate No. 14



Eco restoration

ANNEXURE

Annexure No.1

Chendayad Granites Private limited (CSR 1.4.19 to 31.10.2019)		
05-08-2019	BASE BALL CHAMPIONSHIP	5000
03-04-2019	VOLLEY FEST KANNAVAM	15000
27-04-2019	SAMRIDHI AGRO CHARITABLE SOCIETY	2000
30-04-2019	ALACHERY MUZHAPPANCHERY KSHETHRAM	1000
02-05-2019	KALARIPAYATT PRADHARSHANAM	25000
09-05-2019	VISHVA HNDHU PARISHAD	5000
23-06-2019	AVANI CHIKITHSA SAHAYAM	7500
28-06-2019	UNNATHI KALA SAMSKARIKA VEDHI	1000
09-07-2019	FORWARD BLOCK LEFT	1000
02-08-2019	SRIKRISHNA JAYANTHI	5000
26-08-2019	P KUNJIKRISHNAN SMARAKA VAYANASALA	5000
11-09-2019	KANNAVAM SRI MAHA GANAPATHI KSHETHRAM	1500
02-10-2019	KARSHAKA THOZHILALI UNION	5000
03-10-2019	LOVE AND LIFE CHARITABLE TRUST	500
10-10-2019	MALABAR FILM FEST	1500
11-10-2019	THOOVAKUNNU AYYAPPABHAJA MADAM	5000
18-10-2019	KERALA SCHOOL KALOLTHSAVAM	5000
22-10-2019	DESHEEYA NEETHI VEDHI	1000
25-10-2019	MOORYAD SRI MANGULATH BHAGAVATHI KAV	3000
	Total	95000

Details of CSR

Annexure No.1A

മട്ടന്നൂർ ഉപജില്ല കേരള സ്കൂൾ പ്ലെയർഷിപ്പ് 2019-20

2019 നവംബർ 11, 12, 13, 14 (മുഴുവൻ)

ശ്രീ. ഹയർ സെക്കന്ററി സ്കൂൾ മമ്പാറ (പി.ഒ. ആയിത്തറ മമ്പാറ)

No: 507 Date: 18.10.19

ശ്രീ. / ശ്രീമതി Chendayad Granites

എന്നവരിൽ നിന്നും സംഭാവനയായി (രൂപ) Five thousand only

നന്ദിപൂർവ്വം കിട്ടിത്തേറ്റിട്ടു.

₹ 5000/-

മെയർ പേഷൻ, ഹയർ കണ്ടിൻസ് സംയുക്തമായി

കേരള കർഷകസംഘം കുത്തുപറമ്പ് ഏരിയ സമ്മേളനം

2019 ഒക്ടോബർ 12, 13 (ശനി, ഞായർ) തിന്യതികളിൽ

മുതിയങ്ങയിൽ നമ്പർ 123

തിന്യതി: 2.10.19.

ശ്രീ. / ശ്രീമതി ചെമ്മൻ ഗ്രാമീണ സമാജം

എന്നവരിൽ നിന്നും സംഭാവനയായി രൂപ 100

നന്ദിപൂർവ്വം കിട്ടിത്തേറ്റിട്ടു.

₹ 5000/-

സംഘടനയിൽ.

SAVE SOCIETY OF AMITY AND VOICE FOR EDUCATION (Reg. No: 716/2004)

No. 018 Date: 03-04-2019

VOLLEY Fest 2019 KANNAVAM

Received with thanks from Mr. / Mrs. Chendayad Granites Pvt. Ltd.

Rupees: Fifteen Thousand Only

₹ 15000/-

Secretary

സമൂഹ ആശ്രിത ചാരിറ്റബിൾ സർവീസ് സൊസൈറ്റി (SACSS)
 റജി. നമ്പർ : KNR/CA/ 55/2019
 കുത്തുപറമ്പ് (പി. ഒ)

നമ്പർ: **13** സംഭാവന രശിതി തീയതി: **27/4/19**

ശ്രീ/ശ്രീമതി **Chendayad Granites Pvt. Ltd.**
Valiyavakkam അവർകളിൽ നിന്ന് സംഭാവനയായി
Two Thousand രൂപനമ്പൂർവ്വം കിട്ടിയിട്ടുണ്ട്.

₹: **2000/-** സെക്രട്ടറി/പ്രസിഡണ്ട്

നിവർത്തന ട്രസ്റ്റ് ഓഫ് കേരള ഹോക്കി ഓർഗനൈസേഷൻ
 സംയുക്തമായി സംഘടിപ്പിക്കുന്ന
കളരിയറ്റ് പ്രദർശനം
 2019 ഫെബ്രുവരി 6 തിങ്കളാഴ്ച രാത്രി 7 മണിക്ക്
 ശ്രീ ചിറക്കുന്ന് ഭഗവതി ക്ഷേത്ര പരിസരത്ത്

നമ്പർ: **101** സംഭാവന രശിതി തീയതി: **05/05/19**

ശ്രീ/ശ്രീമതി **മെട്രോ ഡെവലപ്മെന്റ് പ്രൈവറ്റ് ലി.**
 എന്നവരിൽ നിന്നും **രണ്ടര ലക്ഷം രൂപ** സംഭാവനയായി നമ്പൂർവ്വം കൈപ്പറ്റി.

₹ **25,000/-** കൺവീനർ

LOVE AND LIFE CHARITABLE TRUST
 P.O CHEEYAMBAM, VIA PULPALLY,
 SULTHAN BATHERY TALUK
 WAYANAD DISTRICT, KERALA STATE,
 INDIA, PIN 673579
 Reg.No. 01/ N/2015, 06/IV/2015
 12A Reg. No. AABTL2572R/09/15-16/T-0034
 80G Reg No. AABTL2572R/09/16-17/T-0031/80G
 Mob : 09400058009, 09567450679

No. **2462** Date: **21/05/19**

Received with thanks from Mr /Mrs.....
Chendayad Granites Pvt Ltd
 the sum of Rupees **Five Hundred only**
 being Donation.

OUR BANK : THE SOUTH INDIAN BANK Ltd.
 A/c No. 0260073000000489, IFSC Code : SBIL00000260
 Pulpally, Ph : 04936 240275 512L

Secretary

Receipts of CSR Activities

Annexure No.2

Cert No. FRE/3828

भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खान परीक्षा बोर्ड/Board of Mining Examinations
फोरमैन सक्षमता प्रमाण-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)

श्री मल्ला सुरेश सुपुत्र मल्ला सुरी अप्पाराव
जिनकी जन्म तिथि 12.07.1993 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा 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 Mallala Suresh son of Mallala Suri Apparao
born on 12th 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

सचिव
खान परीक्षा बोर्ड
Secretary
Board of Mining
Examinations

अध्यक्ष
खान परीक्षा बोर्ड
Chairman
Board of Mining
Examinations

Signed and Sealed
Date 09.09.16

Certificate of licensed Person

Annexure No.3

FORM D
(See clause (a) of rule 10 and clause (m) of sub-rule (1) of rule 40)

NOTICE

24.10.2017

From:
Shri. C G George
Joint Managing Director
Chendayad Granites Pvt Ltd
CP3/C40, KSIDC Industrial Growth centre
Valiyavalicham, Koothuparamba Mooryad Post 670643

To:

- The District Magistrate,
Kannur District,
- The Regional Controller of Mines,
Yeswanthpur, Bangalore 560022
- The Deputy Director General, Directorate General of Mine and Safety South Zone,
#5, 17th Main, 100ft. Road, 4th B-Block,
Koramangala, Bangalore- 560 034

1	a. Name of Mine	M/S Chendayad granites pvt ltd Office: Poyiloor, Poyiloor P.O, Kannur Dist – 670 643, Kannur District, Kerala State.
	b. Name of Mineral	Granite Building Stone
	c. Situation of Mine	Location: Poyiloor Village: Thripangom Village Post office: Poyiloor P.O Town: Thalassery, Taluk: Thalassery District: Kannur, State: Kerala State.
	d. Date when work was first started	15.01.2008
2	a) Name & postal address of present owner(s)	Shri. C.G. George, Joint Managing Director Chendayad Granites Pvt Ltd CP3/C40, KSIDC Industrial area Valiyavalicham, Koothuparamba Mooryad Post 670643
	b) Name & postal address of agents if any	
3	a. Name & postal address of Mines Manager	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 <u>Address:</u> Gavarapeta Street, Kasimkota, Visakapatanam - 531031
	b. His age	24 Years
	c. His qualification	Diploma in Mining Engineering Foreman's Certificate No.FRE/3828 w.e.f 06.05.2016 Valid up to 05.05.2021

d.	His experience in Mining	2 years Experience
4	Whether working are likely to be Extended below ground	Yes in future
5	a. Maximum depth of open cast excavation measured from its highest to its lowest point	Above ground 4 meters from its highest to lowest point
	b. Date when depth exceeded 6 meter	Not Yet reached 6meter depth
6	a. Nature, amount and kind of explosives used if any	Nitrate Mixture Class 2 division 0 Class 6 division 1 Class 6 division 3
	b. Date when explosives were first used	27.02.2015

Thanking You,

M/S Chendayad Granites Pvt Ltd


(C.G.George)

Joint Managing Director

Date: 24.10.2017

Form D

Annexure No.4



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KNR/ICO/814/2008
Date of issue :2017-09-08

CONSENT VARIATION ORDER

Consent No : O14KANCTOA250074

Ref : 1. Consent No:O14KANCTOA250074 dated 11/11/2014.
2. Consent Variation Order dated 27/04/2015.
3.Consent Variation Order No:O14KANCTOA250074 dated 24/02/2016.

The ' Integrated Consent to Operate' issued as per reference above to M/s Quarry Owned By Sri.C G George ,Joint Managing Director Chendayad Granites pvt ltd, Poiloor P.O,Via Panoor,Thalassery is hereby modified & issued to M/s Quarry Owned By Sri.C G George ,Joint Managing Director Chendayad Granites pvt ltd, Poiloor P.O,Via Panoor,Thalassery The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	1.1 VALIDITY	30/04/2020
2	1.13 CAPITAL INVESTMENT	25 LAKHS
3	1.12 ANNUAL FEE	4420/-
4	1.12 FEE REMITTED	13260/-
5	1.16 ACTIVITY	granite quarrying of 1.5176 Ha in RS NO.275/1A of Thrippangottoor Village of Thalassery Thaluk

II. CONDITIONS

2.2 This integrated consent, unless withdrawn earlier and subject to condition No.2.1 Shall be valid up to 30/04/2020. In case the operation of the Industrial plant is to be continued thereafter, application for renewal of the consent is to be made before 30/01/2020.

2.6 Deleted.

3.2 Deleted.

3.3 Deleted.

Page1

4.1 Deleted.
4.3 Deleted.
4.4 Deleted.
4.5 Deleted.
4.8 Location of quarry shall be as per the drawing attached.No change or alteration to the above shall be made.
4.10 Deleted.
4.13 Deleted.

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

DATE : 08/09/2017 Dist. Office
Kannur - 670002

SIGNATURE & SEAL OF ISSUING AUTHORITY


Krishnan M.N
Environmental Engineer

To
C.G. GEORGE, JOINT MANAGING DIRECTOR, CHENDAYAD GRANITES PVT LTD., KSIDC
INDUSTRIAL GROWTH CENTRE, VALIYAVELICHAM, KOOHUPARAMBA, KANNUR DT -
670693

Page 2

Copy of Consent form PCB

Annexure No.5



सत्यमेव जयते

Validity expires on 01.09.2022

**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

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
2. Minutes of the 6th meeting of DEAC held on 15/06/2017.
3. Minutes of the 7th meeting of DEAC held on 22/08/2017.
4. Minutes of the 8th meeting of DEIAA held on 29/08/2017.

ENVIRONMENTAL CLEARANCE NO. 19/2017

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 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. As per gazette notification no SO 190(E) dtd 20/01/2016, Government of India and GO(Ms)no.05/2016/Env't 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

Annexure No. 6

Transferred from T.Rajan

अनुज्ञति प्ररूप एल.ई.-3 | LICENCE FORM LE-3
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part I of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञति
Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञति सं. (Licence No.): E/SE/KL/22/13(E84556)
वार्षिक फीस रूपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
C.G.GEORGE JOINT MANAGING DIRECTOR (अधिभोगी / Occupier : C G GEORGE), CHENDAYAD GRANITES PVT LTD, CP III C 40 KSIDC INDUSTRIAL GROWTH CENTER, VALIYAVELICHAM, KOOOTHUPARAMBA, Town/Village - KOOOTHUPARAMBA, District-KANNUR, State-Kerala, Pincode - 670643

को अनुज्ञति अर्पित की जाती है।

2. अनुज्ञतिधारी की प्रस्थिति | Status of licensee : **Company**

3. अनुज्ञति निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।
Licence is valid only for the following purpose: possess for use of Nitrate Mixture, Safety Fuse, Electric and/or Ordinary Detonators, - के उपयोग के लिए

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

क्र. Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	100 Kg.
2.	Safety Fuse	6,1	0	2000 Mtrs
3.	Electric and/or Ordinary Detonators	6,3	0	1000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञति के लिए) : 3 times as above.
(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]:

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञति परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s): रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/13(E84556)
दिनांक (Dated) 29/02/2016

6. अनुज्ञति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No. 275/1A, ग्राम (Town/Village): **Trippangottur**
जिला (District) **KANNUR** राज्य (State) **Kerala** पुलिस थाना (Police Station): **Kolavallur**
दूरभाष (Phone) **9447485245** ई.मेल (E-Mail) **0** पिनकोड (Pincode) **0** फैक्स (Fax)

7. अनुज्ञति परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।
The licensed premises consist of following facilities. Constructed type C magazines for explosives and detonators as per Specification 2 of Schedule VII of Explosives Rules 2008

8. अनुज्ञति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अर्पित की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

- उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
- अनुज्ञति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञति तारीख 31 मार्च 2019 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2019.

यह अनुज्ञति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञति की शर्तों का अधिभोग करने या यदि अनुज्ञति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंशोधित की जा सकती है, जहां वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 20/02/2015

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives
Ernakulam

Transfers :
• Change in Licensee Name/Address/Status dated : 29/02/2016

नवीनीकरण के पृष्ठान्त के लिए स्थान
Space for Endorsement of Renewal

नवीनीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडित अपराध होगा।

Copy of Explosive

Annexure No. 7

ലൈസൻസ് നമ്പർ ബി4.592/18		തീയതി 09/04/2018
<p>തൃപ്രങ്ങോട്ടൂർ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും 1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232,233,234,254 എന്നീ വകുപ്പുകളും അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച് നൽകുന്ന ഡി & ഒ ലൈസൻസ്</p>		
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	: സി.ജി ജോർജ്ജ്, : ജോയിന്റ് മാനേജിങ്ങ് ഡയറക്ടർ, ചെണ്ടയോട് ഗ്രാനൈറ്റ് പ്രൈവറ്റ് ലി., വലിയവെളിച്ചം, കൂത്തുപറമ്പ്(പി.ഒ).	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	ടി.സ നമ്പർ 275/1എ നരിക്കോട്ട് മല	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിങ്കൽഖനനം നടത്തുന്നതിന്	
കെട്ടിട നമ്പരും വാർഡ് നമ്പരും	ടി.സ നമ്പർ 275/1എ	
ലൈസൻസ് കാലയളവ്	01/04/2018 മുതൽ 31/03/2019 വരെ	
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	5000/-	
<p>ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ,തീയതി,കാലയളവ്,നൽകിയ അധികാര സ്ഥാനം)</p>		
10.ഡിസ്ട്രിക്ട് എൻവയോൺമെന്റൽ ഇംപാക്ട് അസസ് മെന്റ് അതോറിറ്റി യുടെ 02/09/2017തീയതിയിലെ 45/KNR/2017/DEIAA നമ്പർ അനുമതി. 11.കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിന്റെ 08/09/2017 ലെ PCB/KNR/ICO/814/2008 നമ്പർ അനുമതി. 12.മൈനിംഗ് ആൻറ് ജിയോളജി ഡിപ്പാർട്ട്മെന്റിൽ നിന്നും 04/10/2017 തീയതിയിലെ 408/2017- 18/4138/M3/2017/DMG നമ്പർ ഉത്തരവ് 13.ചീഫ് കൺസർവ്വേറ്റർ ഓഫ് ഏകോപിത അധികൃതരുടെ അനുമതി. 14.തൃപ്രങ്ങോട്ടൂർ വില്ലേജ് ഓഫീസറുടെ 20/02/2018 ലെ 30617039 നമ്പർ കൈവശാവകാശ സർട്ടിഫിക്കറ്റ്. 15.തൃപ്രങ്ങോട്ടൂർ പ്രാഥമിക ആരോഗ്യകേന്ദ്രം ഹെൽത്ത് ഇൻസ്പെക്ടറുടെ ശുചിത്വ സർട്ടിഫിക്കറ്റ് 16.കുടി നടത്താനുദ്ദേശിക്കുന്ന സർവ്വേ മാപ്പ് 17.പാറപ്പൊട്ടിക്കുന്ന ആളുടെ വൈദ്യുത സംബന്ധിച്ചുള്ള സർട്ടിഫിക്കറ്റ് 18.സ്ഥല ഉടമസ്ഥന്റെ സമ്മതപത്രം		
<div style="display: flex; justify-content: space-between; align-items: center;">  <div style="text-align: right;">  T. B. MUSTHAFA SECRETARY TRIPRANGOTTOOR GRAMA PANCHAYAT P.O. KALLIKANDY 670 608, KANNUR (DIST) Ph. 9496049126 </div> </div>		
<p>ലൈസൻസിൽ താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാണ്</p>		

Copy of license from Gram Panchayat

Annexure No.8**PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY**

Sub: Mining & Geology - Mines & Minerals - Minor Minerals – Granite Building Stone – Quarrying Lease to M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George) –sanctioned – Orders – issued.

- Ref:** 1. Application dtd. 21/02/2017 from M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George)
2. Letter No. DOC/M-938/2017 dtd. 28/04/2017 from the Geologist, District Office, Kannur
3. Pro.order. No. 45/KNR/2017/DEIAA dtd. 02/09/2017 of the District Environment Impact Assessment Authority, Kannur, Kerala
4. Kerala Minor Mineral Concession Rules, 2015.

No. 408/2017-18/4138/M3/2017/DMG

Dated, Thiruvananthapuram 04/10/2017

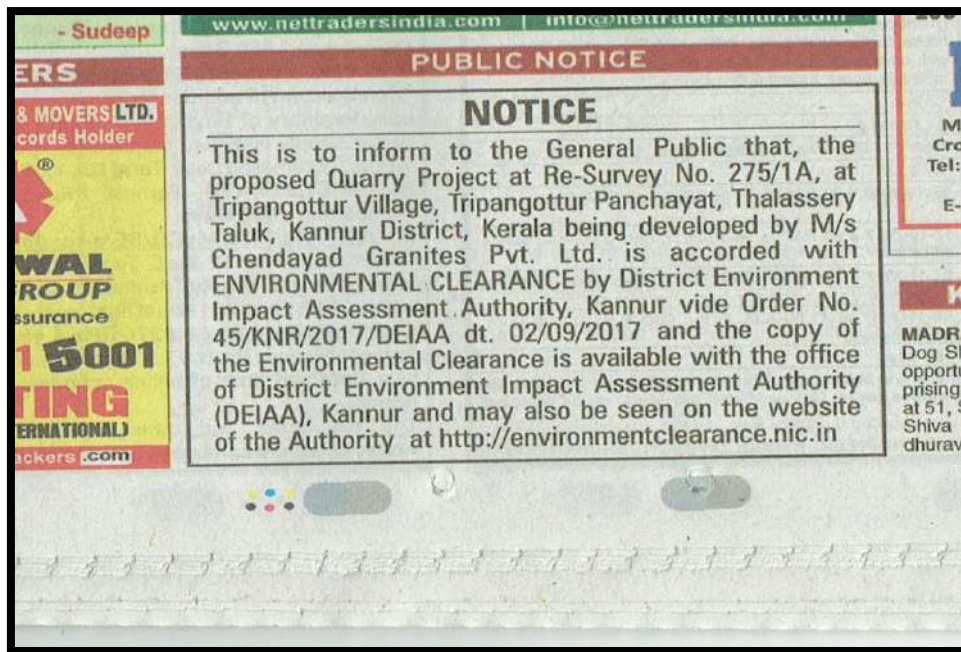
ORDER

A quarrying lease is granted to M/s. Chendayad Granites Pvt. Ltd., CP3/C40, KSIDC Industrial Growth Centre, Mooryad. P.O, Valiyavalicham, Koothuparamba, Kannur District – 670 643 (Represented by one of its Joint Managing Director, Shri. C. G. George) to quarry Granite (Building Stone) over an area of 1.5176 Hectares of land comprised in Re - Sy. No. 275/1A of Tripangottur Village, Thalassery Taluk, Kannur District for 6 (Six) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 2015 and as per the survey map issued by the Tahsildar, Thalassery and the approved Mining Plan and environmental clearance submitted by the applicant subject to the under mentioned conditions.

- Royalty is payable to Government as per Rule 32 of the Kerala Minor Mineral Concession Rules, 2015 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
- Dead rent is realizable under 40(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realizable under 40(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time on the basis of the land revenue.
- The lessee shall execute a quarrying lease deed within a period of six months from the date of this order in form 'H' as per Rule 43 of the Kerala Minor Mineral Concession Rules, 2015.
- The lessee shall also deposit an amount of Rs 10,000/- (Rupees Ten Thousand only) per hectare as security deposit for the observance of the terms and conditions of the lease before the deed is executed as per rule 42 of the said rules. The lessee shall commence quarrying operation only after the deed is executed and registered.
- The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
- The lessee shall not win and dispose of any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order.
- The production of Granite (Building Stone) from the area covered under this grant shall be subject to the quantity specified in the Mining Plan submitted by the lessee and the same is restricted to **26,000 Metric Tonnes** per year.
- (i) The lessee shall erect a notice board in Malayalam at a prominent place with a minimum size of 1 metre X 1.5 metres in a metallic board near to the entrance of the quarry to the effect that it shall contain the name and address of the permit holder, mineral concession number and date, the mineral to be extracted, permit number and date and its date of expiry,

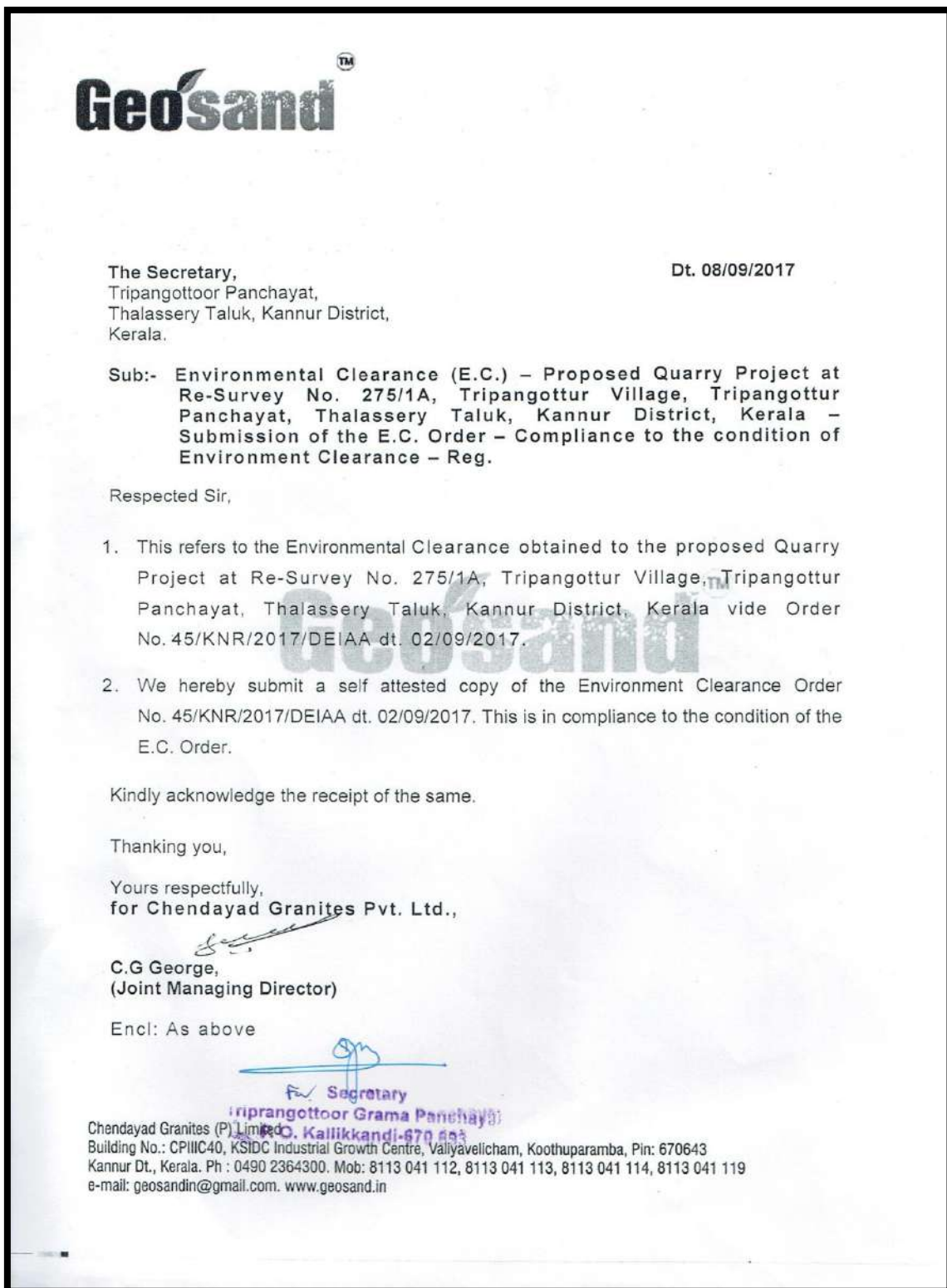
Copy of Lease

Annexure No. 9



Advertisement in News papers

Annexure No. 10



Copy of acknowledgement

Annexure No. 11

**TEST REPORT**

Test Report No: TC540219000002504F	Date: 13.06.2019	Page 1 of 1
------------------------------------	------------------	-------------

CUSTOMER DETAILS			
Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District	
Location of Site	Monitoring Site	Poyiloor	
	Survey No	275/1 A	
	Village	Thripangottor	
	Taluk	Thalassery	
	District	Kannur	
	State	Kerala	
Customer Reference		Test Request form dated 07.06.2019	
SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	TC540219000002504F
Location of Monitoring	South West Side	Sampled By	Laboratory
Date of Monitoring	07.06.2019	Test Started On	10.06.2019
Sample Received On	10.06.2019	Test Completed On	11.06.2019
Humidity	63%	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	38.8	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix – L	µg/m ³	16.5	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0

End of Report

For and on behalf of
Standard^s Environmental & Analytical Laboratories

Diya
Authorized Signatory
Riya Joseph
Technical Manager


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 laboratory.

Standard^s Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & "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: sealab@gmail.com, info@sealabs.in


Result of Air

Annexure No.12



Standard^S
Environmental Monitoring

TEST REPORT



NABL(TC-5402)

Test Report No: TC540219000002505F		Date: 13.06.2019		Page 1 of 1	
------------------------------------	--	------------------	--	-------------	--

CUSTOMER DETAILS		
Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District
Location Of Site	Survey No	275/1 A
	Village	Thripangottor
	Taluk	Thalassery
	District	Kannur
	State	Kerala
Customer Reference		Test Request Form Dated 07.06.2019


SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Sample Code	TC540219000002505F
Location of Monitoring	North Side Boundary
Date of Monitoring	07.06.2019

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	35.9 dB (A)	23.00 Hrs	32.7 dB (A)
07.00 Hrs	38.5 dB (A)	00.00 Hrs	35.0 dB (A)
08.00 Hrs	42.6 dB (A)	01.00 Hrs	35.7 dB (A)
09.00 Hrs	45.9 dB (A)	02.00 Hrs	35.4 dB (A)
10.00 Hrs	48.1 dB (A)	03.00 Hrs	36.1 dB (A)
11.00 Hrs	51.1 dB (A)	04.00 Hrs	35.0 dB (A)
12.00 Hrs	48.5 dB (A)	05.00 Hrs	36.7 dB (A)
13.00 Hrs	47.7 dB (A)		
14.00 Hrs	48.1 dB (A)		
15.00 Hrs	48.5 dB (A)		
16.00 Hrs	49.6 dB (A)		
17.00 Hrs	50.0 dB (A)		
18.00 Hrs	44.8 dB (A)		
19.00 Hrs	41.4 dB (A)		
20.00 Hrs	37.7 dB (A)		
21.00 Hrs	37.3 dB (A)		
22.00 Hrs	34.8 dB (A)		

RESULTS	
Noise Level (Leq) Daytime	46.6 dB (A)
Noise Level (Leq) Nighttime	35.4 dB (A)

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories



 Authorized Signatory
 Rija Joseph
 Technical Manager

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 laboratory.

Standard^S Environmental & Analytical Laboratories
 Accreditation and Approval: NABL as per ISO 17025: 2005 & "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: sealab@gmail.com, info@sealabs.in


Result of Noise

Annexure No.13



Standard^S
Environmental Monitoring

TEST REPORT



NABL(TC-5402)

Test Report No: TC540219000002506F		Date: 13.06.2019		Page 1 of 1	
------------------------------------	--	------------------	--	-------------	--

CUSTOMER DETAILS					
Customer Details		Name & Address Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC, Industrial Growth Centre, Mooriyad, Kannur District			
Location of Site		Survey No		275/1 A	
		Village		Thripangottor	
		Taluk		Thalassery	
		District		Kannur	
		State		Kerala	
Customer Reference		Test Request Form dated 07.06.2019			
Monitoring Site		Poyiloor			

SAMPLE DETAILS					
Sample Code		TC540219000002506F		Sample Received On	
				10.06.2019	
Sample Name		Water		Sampling Procedure	
Sample Description		Stream Water		Sampling Location	
				South East	
Identification By Customer		---		Sample Condition	
				Good	
Sampled On		---		Test Started On	
				10.06.2019	
Sampled By		Customer		Test Completed On	
				13.06.2019	

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
02	Odour	IS 3025 Part 5: 2018	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.10	1.00 (Max)
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.76	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	µS/cm	78.0	---
06	Total Dissolved Solids	IS 3025 Part 14:1984 RA 2019	mg/L	45.0	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 16:1984 RA 2017	mg/L	18.2	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 21:2009 RA 2019	mg/L	5.66	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 40:1991 RA 2019	mg/L	<1.00	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 46:1994 RA 2019	mg/L	7.84	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 32:1988 RA 2019	mg/L	12.2	200 (Max)
12	Iron (as Fe)	IS 3025 Part 23:1986 RA 2019	mg/L	0.15	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 53:2003 RA 2019	mg/L	1.25	200 (Max)
14	Total Coliform Bacteria	IS 15185: 2016	----	Absent/100 ml	Absent
15	E coli	IS 15185: 2016	----	Absent/100 ml	Absent

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Vidhyalakshmi Das
Authorized Signatory

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Raja Joseph
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 laboratory.

Standard^S Environmental & Analytical Laboratories
 Accreditation and Approval: NABL as per ISO 17025: 2005 & "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: sealab@gmail.com, info@sealabs.in

Result of Water