COMPLIANCE REPORT

October 2018 - March 2019

M/s CHENDAYAD GRANITES PVT LTD

(QUARRY PROJECT)

KANNUR District

Kerala

Dt.17-07-2019

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 - Second 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 Second half (October 2018 – March 2019) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For M/S Chendayad Granites Pvt. Ltd

Encl: - As Above

Copy to:-

Member Secretary

SEIAA, Trivandrum

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

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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 Second half to the specific condition, health conditions and general conditions of Clearance for Environmental order the period the of October 2018 - March 2019 is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A - SPECIFIC CONDITIONS

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

To control direct, manage and supervise the quarrying operations as per the Mines Act 1952 the project proponent has appointed Mines manager. 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
	implem	ented								

The project proponent will conduct health check up for the labours in association with Primary Health Centre of Local Self Government. The project proponent has basic health and welfare for the persons employed in the project site. The project is keeping a First aid box 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	Complied
	done only during day time. The mitigate measures for control of	
	ground vibration to arrest the fly rocks and boulder should be	
	implemented.	

The blasting is 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 will be 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 non-	
	mineralized area by planting suitable native species in	
	consultation with the local DFO/Agriculture department.	

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.

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		

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

06	Fencing shall be maintained properly all around the lease area.	Complied
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To demarcate the lease area, the project proponent has installed fencing around the project site where Environmental Clearance obtained. This will help to prevent falling of animals/human being/dumping of garbage etc.

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.	

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

80	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

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

11	A separate small plot to be maintained in the premise to Beir	g
	preserve rare and endemic species. If any, listed in the Com	plied
	biodiversity assessment etc.	

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.

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.

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

To reduce the air and noise pollution the project proponent has provided Green belt around the project area.

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

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. The extraction of minerals will be from top to bottom. 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	Being
	be dressed down before engaging persons for work at the	Complied
	bottom of the bench.	

The labours will work on the bottom bench only after clearing loose minerals form the side wall. The vehicles like JCB, breakers are used to remove the loose or hanging mineral boulders in the project site.

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

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	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.	

It shall be ensured that the directions contained are strictly followed when required.

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

The waste dumps and topsoil dumps are stabilised by using coir mats or bio regeneration. Proper drainages are constructed by the project proponent, which will help to manage the storm water during monsoon season.

1	9	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.	

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, once it is attain its maximum capacity, the project will plant appropriate grass on the dump to prevent sliding and soil erosion.

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.	

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.

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

The proponent is very conscious to prevent all quarry waste to enter in the public drainage or stream. The project has constructed storm water drains in the lower slopes of the project area for effective management of storm water. 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	Will	be
	width and strength (not less than 2m) shall be constructed at the	compli	ied
	bottom of the slope of the quarry lease area to arrest any likely		
	roll of boulders during heavy rainfall.		

A retaining wall of stone rubbles with wire mesh, of sufficient width and strength (not less than 2m) will be 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

0	1	First Aid kit provide in the work site. It shall be periodically	Complied
		maintained properly. Some labourers shall be trained on First	
		Aid.	

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

At all time drinking water will be available in the project area. The project proponent has provided drinking water in the project site.

O3 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.

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

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	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**

0	9	Approach roads should be maintained properly.	Being
			complied

To arrest the dust emission and easy transportation the approach road has been properly maintaining by the project proponent in the project site.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART - B - GENERAL CONDITION

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

Compliance:

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	Complied
	affidavit filed	by the proj	ponen	t shoul	d be	formed	l and n	nade	
	functional.								

Compliance:

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

<u>Table 1 - Environmental Monitoring Cell (EMC)</u>

SI. No.	SI. 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	complied
	tarred road and open parking areas, if any, inclusive of approach	
	road and internal roads.	

To enrich vegetation and prevent air pollution, the project proponent planted 75 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.

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

Compliance:

As part of energy conservation, the project proponent will generate and utilize energy by installing solar panels/solar street lights in the project site.

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

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. The sprinklers will also install in the project site for suppression of dust.

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 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	Will	be	
	retained as water storage areas and the remaining area should	compl	lied	
	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.			

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.

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

Compliance:

As part of inclusive growth of the community, the project proponent executes various activities under Corporate Social Responsibility of the firm with the consultation of Panchayath. The main activities were under the sectors of education, housing, health etc. The details of CSR provided in the period of first half is mentioned in the **Table No.2**. The receipts of the CSR activity are provided at **Annexure No.1**.

Table No.2 - Detail of performed activities under CSR

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Social	Donation	Srirama Seva Samithi Chamathakadu	Public	10000
	Donation	CMRDRF	Public	200000
	Donation	Kerala Karshaka Sangam Kannur	Public	5000

	Total		3,30,500
	Shethram		
	Amahavishnu		5000
Donation	Poyiloor Sri	Public	
Donation	Kseb Workers	Public	3500
Donation	Hindhu Aikyavedhi	Public	2000
Donation	Pinarayi Peruma	Public	10000
	Thira		
	Madappura Vilakottur		
Donation	Sri Muthappan	Public	5000
	Punnad		
Donation	Geetha Gramam	Public	50000
	Association		
Donation	Kerala Govt Contractors	Public	10000
	Kshethram Karyad		
Donation	Sri Porkkali Bhagavathi	Public	30000

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.	

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	Complied
	specific timings) has to be arranged as per stipulations of	
	Explosive Department.	

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**

1	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.

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

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 comp	lied
	the regulations of explosives department or any other	
	concerned agency.	

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	Α	licensed	person	should	supervise/control	the	blasting	Complied
	ор	erations.						

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	Being
	emissions that may arise during transportation of materials.	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	complied
	used for reclamation of mine pits as per mine closure plan/	
	specific conditions.	

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	Being
	not be less than 5m, if there is no mention is the mining	complied
	plan/specific conditions.	

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	Noted
	provided.	

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	Will	be
	not exceed 10m.	comp	lied

Compliance:

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

1	20	No mining oper	rations should be carried out at places having a	Noted
		slope greater	than 45 ⁰ .	

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

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

Compliance:

To reduce sound amplification, the project has provided ear plugs. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards. The project will try to enhance the vegetative cover by planting more tree saplings.

2	22	The workers on the site should be provided with the required	Complied
		protective equipments such as ear muffs, helmet, etc.	

Compliance:

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

1	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 ensured that all storm water from the mining area will flow in to the pond creating at mining area. The project proponent is intending to create garland drains where it is necessary in the project area for storm water management.

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

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	Being
	has occurred while clearing the land for the project.	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	Noted
	under relevant Rules/Regulations.	

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	Complied
	specified and approved by the explosives department.	

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	Complied
	the quarry to the nearest dwelling unit or other structures, not	
	being any facility for mining shall be provided.	

The norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The distance of the nearest house is above 100 meter form the quarry.

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

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	Complied
		Air Act(s) should have been obtained before initiating activity.	

Compliance:

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

TABLE 3 – APPROVALS FROM COMPETENT AUTHORITIES

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

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

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

Compliance:

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

34	4	The stipulations by Statutory Authorities under different Acts and	Noted
		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.

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

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

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.	

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 both in hard copy as well as mail. The results of Monitored data is attached as **Annexure No. 11, 12 & 13**

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

Compliance:

The conditions of 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	Complied
	number and date of Environmental Clearance proceedings) that	
	all the conditions stipulated in the EC shall be scrupulously	
	followed.	

Compliance:

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

40	No change in mining technology and scope of working should	Noted
	be made without prior approval of the SEIAA, No further	
	expansion or modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	

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

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.

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.

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.

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.

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.

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 Being shall be carries out in critical areas prone to air pollution and complied

having high levels of PM_{10} and $PM_{2.5}$, such as haul road, loading an un loading points and transfer points – it shall be ensured that the Ambient Air Quality Parameters confirm to the norm prescribed by the Central Pollution Control Board in this regard.

Compliance:

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 will be 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.

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 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 A separate Environmental Management Cell with suitable complied qualified personal should be set up under the control of a senior

е	xecutive,	who	will	report	directly	to	the	Head	of	the
C	Organizatio	n.								

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.

	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 Regio	nal Office	of MoEl	F &CC located	at Ban	galore shall	Will	be	
	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	Noted
	the National Green Tribunal, if preferred within a period of 30	

days as prescribed under section 16 of the National Green tribunal Act, 2010.

Concealing the factual data or submission of false/ fabricated 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.

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

Compliance:

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

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

Compliance:

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

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.		

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

Compliance:

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

58	All vehicle used for transportation and within the mine shall	complied
	have "PUC" certificate from authorized pollution taking center.	
	Washing of all vehicles shall be inside the lease area.	

Compliance:

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 Noted	
	the competent authorities for drawl of requisite quantity of	
	surface water and ground water for the project.	

Compliance:

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

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

Compliance:

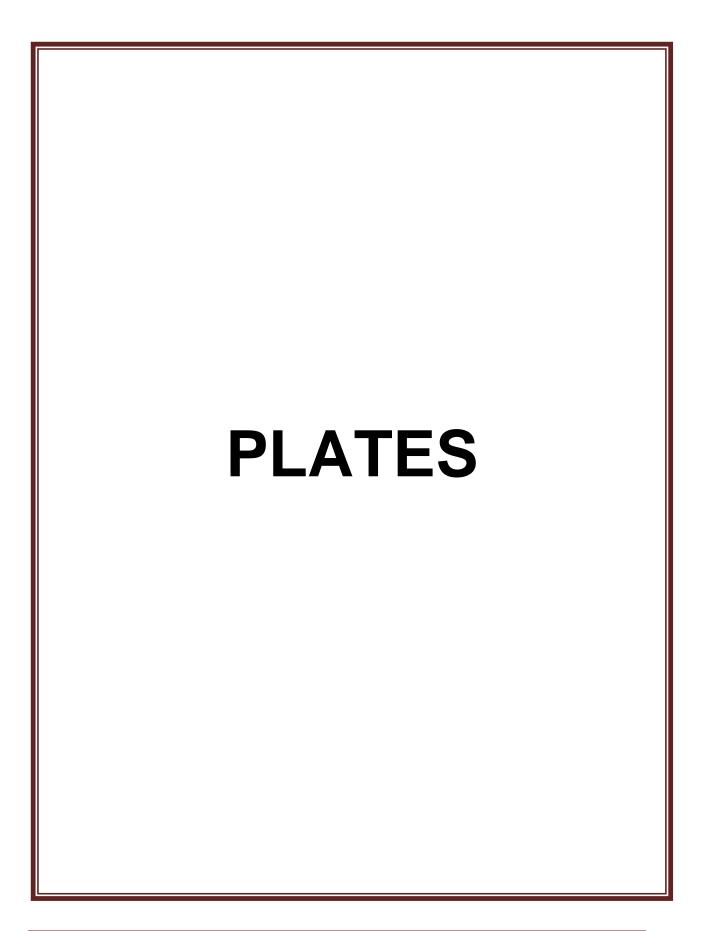
There is no stream or springs flowing in and around to the mine lease area. The project will install de-siltation trap and other mechanism to prevent sediments and wastes from the mining area to the public drainage system.

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

Compliance:

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

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Board showing blasting time

Plate No. 2



Boundary Pillars

Plate No. 3



Sanitary Latrine and Urinals

Plate No. 4



No Smoking Board



Emergency Contact Numbers





Warning Alarms

Plate No. 7



Metallic Board





Sign Boards



First Aid Box

Plate No. 10



Resting Room Plate No. 11



Access Road

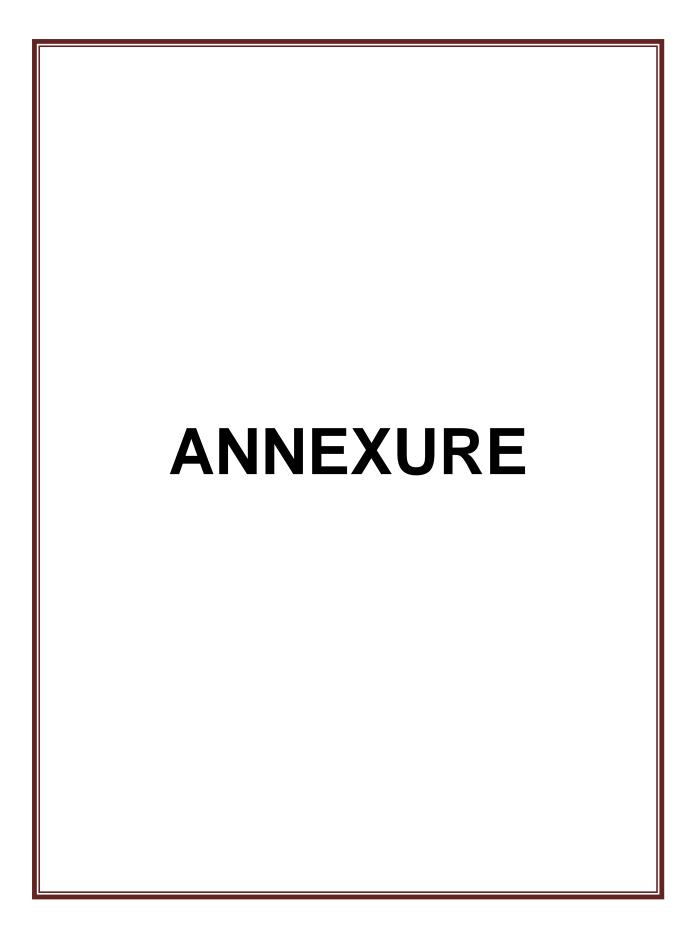
Plate No. 12



Overburden Plate No. 13



Mining Area





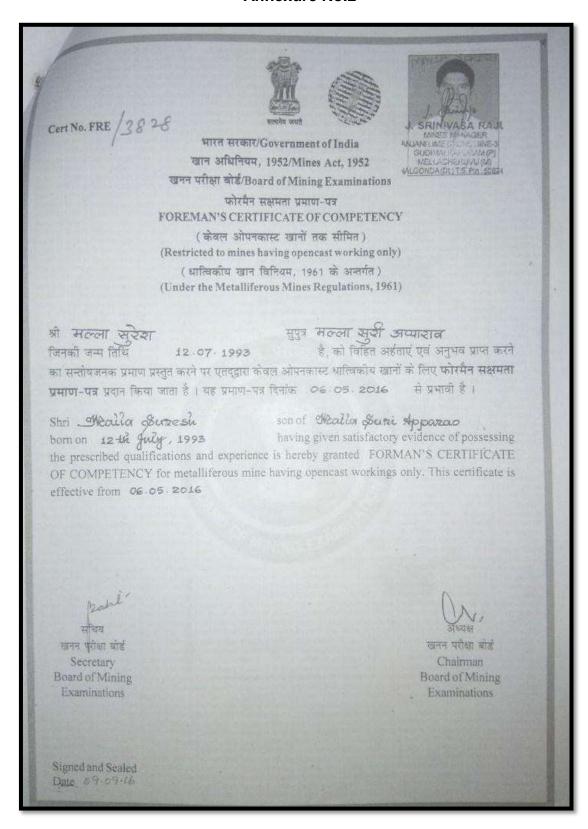
ഗീതാഗ്രാ	മം പുന്നാട്
സമഷ്ഠി ചണ്ഡ	റികാ മഹായാഗം
നിവേദിത വിദ് നമ്പർ: 331 ശ്രീ/ശ്രീത്തി ചെണ്ടും ക്രെവ അവർകളിൽ നിന്നും ക്രെവ	തിനാച്ചര് വഴിപാടായി

ധ്രീരാമ ഭസ ചമതക്കാട്,	വാ സമിതി കേളുമുക്ക്
ന്നാരം 2	றிலுள் : 23/02/19
ശ്രീ/ശ്രീമതി <u>ചെ</u> അവർകളിൽ നിന്ന് <u>ച</u> ിത്താട്ട് നന്ദിപൂർവ്വം കിട്ടിബോധിച്ചു.	<u>റ്റെന്റെ ജി</u> — — — — — — — — — — — — — — — — — — —
₹ 10000/	സെക്രട്ടറി
da Nana	Payiloor

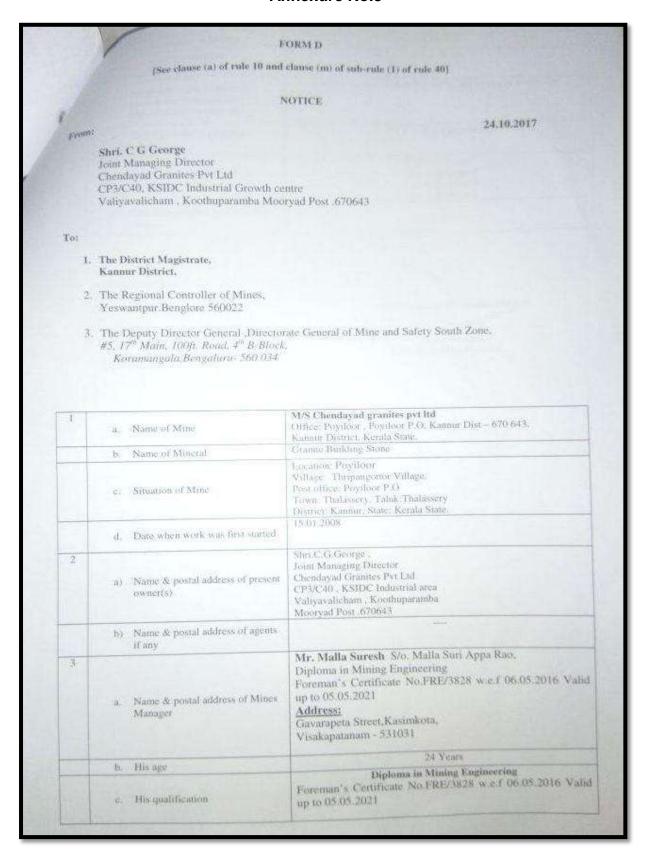


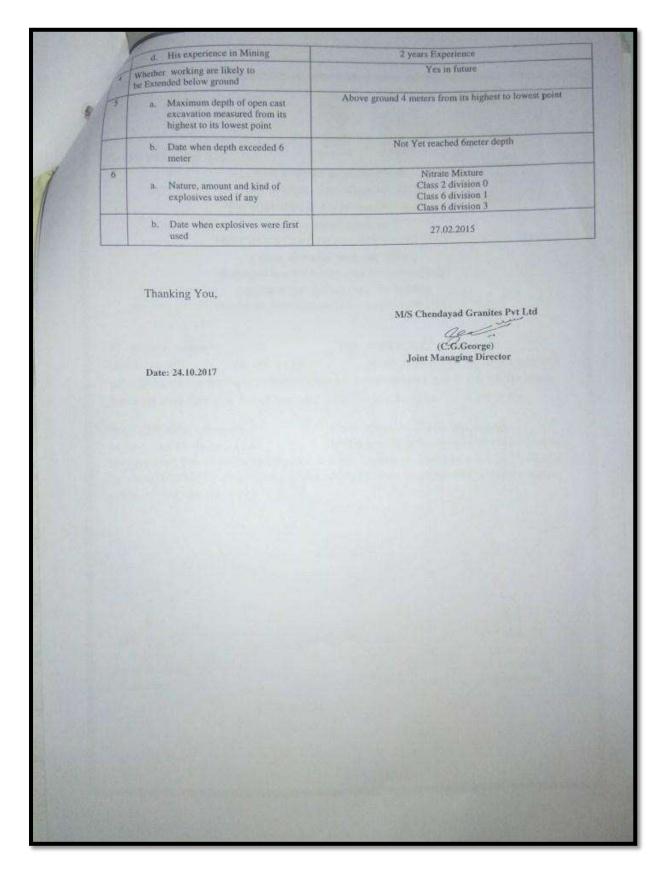


Receipts of CSR Activities



Certificate of licensed Person





Form D





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.

L 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 Villa 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



Copy of Consent form PCB



Validity expires on 01.09.2022

Proceedings of the District Environment Impact Assessment Authority

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

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/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



Page 1 of 8

Copy of Environmental Clearance



Copy of Explosive

ലൈസൻസ് നമ്പർ ബ്ലി4.592/18 തീയ്യതി 09/04/2018 തൃപ്രങ്ങോട്ടർ ഗ്രാമപഞ്ചായത്തിൽ നിന്നം 1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232,233,234,254 എന്നീ വകപ്പകളം അതേ തുടർന്നുള്ള ചട്ടങ്ങളം അനുസരിച്ച് നൽകുന്ന ഡി & ഒ ലൈസൻസ് ലൈസൻസിയുടെ പേരും : സി.ജി ജോർജ്ജ്, മേൽവിലാസവം ജോയിൻറ് മേനേജിങ്ങ് ഡയറക്ടർ, ചെണ്ടയാട് ഗ്രാനൈറ്റ് പ്രൈലി. , വലിയവെളിച്ചം, കുത്തപറമ്പ്(പി.ഒ). സ്ഥാപനത്തിന്റെ പേതം റി.സ നമ്പർ 275/1എ സ്ഥലനാമവും നരിക്കോട്ട് മല ലൈസൻസ് നൽകിയിട്ടള്ള കരിങ്കൽഖനനം നടത്തുന്നതിന് പ്രവർത്തനങ്ങൾ കെട്ടിട നമ്പതം വാർഡ് റി.സ നമ്പർ 275/1എ നമ്പതം ലൈസൻസ് കാലയളവ് 01/04/2018 മുതൽ 31/03/2019 വരെ ഈടാക്കിയ ലൈസൻസ് ഫീസ് 5000/-ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളടെ വിശദാംശങ്ങൾ (നമ്പർ,തീയ്യതി,കാലയളവ്,,നൽകിയ അധികാര സ്ഥാനം) 10.ഡിസ്മിക്ക് എൻവയോൺമൻറൽ ഇംപാക്ക് അസസ് മെൻറ് അതോറിറ്റി യുടെ 02/09/2017തിയ്യതിയിലെ 45/KNR/2017/DEIAA നമ്പർ അനമതി. 11. കേരള സംസ്ഥാന മലിനീകരണ നിയന്ത്രണ ബോർഡിൻെ 08/09/2017 ലെ PCB/KNR/ICO/814/2008 നമ്പർ 12.മൈനിംഗ് ആൻറ് ജിയോളജി ഡിപ്പാർെട്ട്മൻറിൽ നിന്നും 04/10/2017 തിയ്യതിയിലെ 408/2017-18/4138/M3/2017/DMG നമ്പർ ഉത്തരവ് 13. ചിഫ് കൺേടാളർഓഫ് ഏക്േസ്മാസിവ് അധ്കൃതരുടെ അനുമതി. 14. തൃപ്പങ്ങോട്ടർ വില്ലേജ് ഓഫീസറുടെ 20/02/2018 ലെ 30617039 നമ്പർ കൈവശാവകാശ സർട്ടിഫിക്കറ്റ്. 15.തൃപ്രങ്ങോട്ടൂർ പ്രാഥമിക ആരോഗ്യകേന്ദ്രം ഹെൽത്ത് ഇൻെസുക്ടറുടെ ശുചിത്വ സർട്ടിഫിക്കറ്റ് 16 കാറി നടത്താനദേശിക്കുന്ന സർേവ്വ മാപ് 17.പാറപ്പൊട്ടിക്കുന്ന ആളുടെ വൈദഗ്ധ്യം സംബന്ധിച്ചുള്ള സർട്ടിഫിക്കറ്റ് 18 സ്ഥല ഉടമസ്ഥൻെ സമ്മതപത്രം MUSTHAFA TRIPRANGOTTOOR CRAMA PANCHAYAT Ph. 9496049126 ലൈസൻസിൽ താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാണ്

Copy of license from Gram Panchayat

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
 - Pro.order. No. 45/KNR/2017/DEIAA dtd. 02/09/2017 of the District Environment Impact Assessment Auhority, Kannur, Kerala
 - 4. Kerala Minor Mineral Concession Rules, 2015.

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

Dated, Thiruvananthapuram 04/10/2017

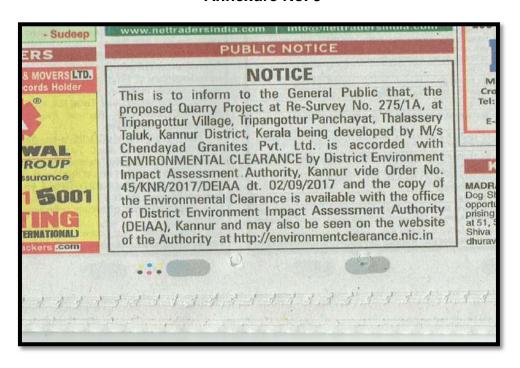
ORDER

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.
- 5. 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 extracted, permit number and date and its date of expiry,



Copy of Lease





Advertisement in News papers



The Secretary, Tripangottoor Panchayat, Thalassery Taluk, Kannur District, Kerala. Dt. 08/09/2017

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,

- 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.
- 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.,

C.G George, (Joint Managing Director)

Encl: As above

F Segretary
Iriprangottoor Grama Penehaya)

Chendayad Granites (P) Limbedo. Kallikkandi 670 55 Building No.: CPIIIC40, KSIDC Industrial Growth Centre, Vallyavelicham, 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

o-mail. goodandin@gmail.com. www.goodand.ii

Copy of acknowledgement





TEST REPORT

Test Report No: TC540219000002504F	Date: 13.06.2019	Page 1 of 1
rest report no.		

	CUSTO	MER 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	
	Monitoring Site	Poyiloor	
	Survey No	275/1 A	
	Village	Thripangottor	
Location of Site	Taluk	Thalassery	
	District	Kannur	
	State	Kerala	
Customer Reference		Test Request form dated	07.06.2019
	SAMI	PLE 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/m³	38.8	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	μg/m³	16.5	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	μg/m³	< 2.00	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	μg/m³	< 2.00	80.0

End of Report

For and on behalf of Standards Environmental & Analytical Laboratories

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: seaalab@gmail.com, info@sealabs.in

Result of Air

Location of Monitoring

Date of Monitoring

Annexure No.12



Test Report No: TC540219000002505F

TEST REPORT

Date: 13.06.2019

TC540219000002505F

North Side Boundary

07.06.2019



			Page 1 of 1	
	CUST	OMER DETAILS		
Customer Details	Name & Address	Mr. C.G George Joint Managing Director M/s Chendayad Granites (P) Ltd CP 3C40, KSIDC,Industrial Growth Co	entre,	
	Survey No	275/1 A		
	Village	Thripangottor		
Location Of Site	Taluk	Thalassery		
	District	Kannur		
	State	Kerala		
Customer Reference		Test Request Form Dated 07.06.2019		
Course of1	SAM	IPLE DETAILS		
Source of sample		Ambient Sound Level		

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	35.9 dB (A)		
07.00 Hrs	38.5 dB (A)	23.00 Hrs	32.7 dB (A
08.00 Hrs	42.6 dB (A)	00.00 Hrs	35.0 dB (A
09.00 Hrs	45.9 dB (A)	01.00 Hrs	35.7 dB (A)
10.00 Hrs		02.00 Hrs	35.4 dB (A)
11.00 Hrs	48.1 dB (A)	03.00 Hrs	36.1 dB (A)
12.00 Hrs	51.1 dB (A)	04.00 Hrs	35.0 dB (A)
13.00 Hrs	48.5 dB (A)	05.00 Hrs	36.7 dB (A)
14.00 Hrs	47.7 dB (A)	RESULTS	
15.00 Hrs	48.1 dB (A)		
16.00 Hrs	48.5 dB (A)		
17.00 Hrs	49.6 dB (A)	Noise I - 1 G to	
	50.0 dB (A)	Noise Level (Leq) Daytime	46.6 dB (A)
18.00 Hrs	44.8 dB (A)		.0.30
19.00 Hrs	41.4 dB (A)		
20.00 Hrs	37.7 dB (A)		
21.00 Hrs	37.3 dB (A)	Noise Level (Leq) Nighttime	35.4 dB (A)
22.00 Hrs	34.8 dB (A)		The second second second

End of Report

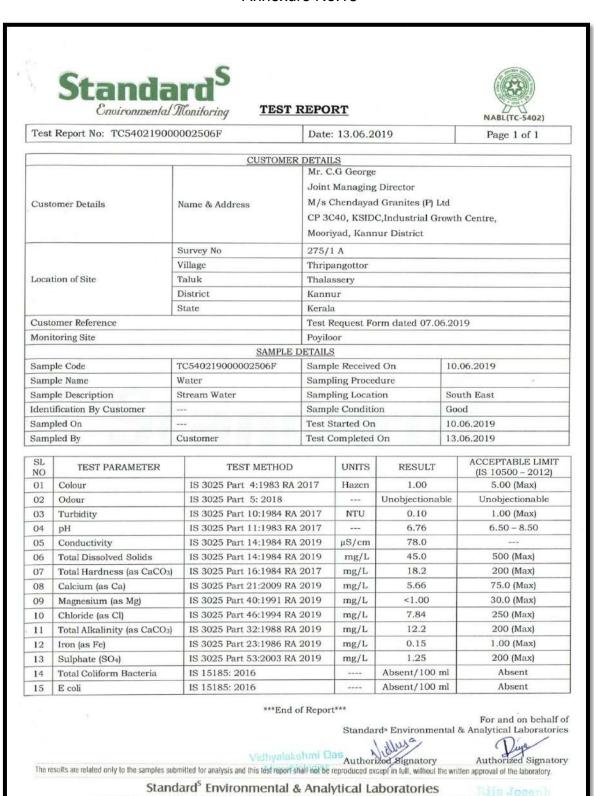
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Result of Noise



Result of Water