

COMPLIANCE REPORT

APRIL 2021 – SEPTEMBER 2021

M/s PLANTERS AGGREGATES

(Quarry Project)

ERNAKULAM DISTRICT

KERALA



Dt. 14-12-2021

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 :- 1065/SEIAA/EC3/1912/2016


**Sub :- Environment Clearance – Quarry project at Karukutty Village
& Panchayath, Alwaye, Ernakulam District, Kerala– Compliance
Report – First Half - Reg.**

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for 4.1885 Ha. by order No. 1065/SEIAA/EC3/1912/2016 dated 22.12.2017 by State Environmental Impact Assessment Authority, Kerala. The compliance report of First half (April 2021 – September 2021) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,
For M/s Planters Aggregates


Mr. Saji Vadakkekara
(Proprietor)



**Copy to:-
The Member Secretary
State Environment Impact Assessment Authority (SEIAA),
Thiruvananthapuram, Kerala.**

Encl: - As Above

Planters Aggregates

Palissery, Angamaly, Ezhattumugham P.O., Ernakulam, Kerala - 683577, Phone : 0484-2439166, 2439167, Mob: 9562141400, E-mail: plantersgroup@yahoo.com

**COMPLIANCE REPORT
TO
THE CONDITIONS
OF
ENVIRONMENTAL CLEARANCE ORDER
NO: 1065/SEIAA/EC3/1912/2016
Dated: 22.12.2017**

BY
**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA)
FOR
BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT**

AT
**SURVEY NO. 168
KARUKUTTY VILLAGE & PANCHAYATH, ALWAYS,
ERNAKULAM DISTRICT, KERALA**

BY
**M/S PLANTERS AGGREGATES,
ERNAKULAM DISTRICT
KERALA**

INDEX

Sl. No.	Particulars	Page No.
1.	Introduction	07
2.	Compliance Report – Specific conditions – Part A	08
3.	Compliance Report – General conditions – Part B	10
4	Plate	33
5	Annexure	47

LIST OF TABLES

Table No.	Particulars	Page No.
1.	The details of CSR/CER Activities	13
2.	The details of statutory approvals	21
3	The details of newspaper advertisement	24

LIST OF PLATES

Plate No.	Particulars	Page No.
1.	Photograph showing fencing for Rain Water Harvesting Pond	34
2.	Photograph of the avenue trees planted along the road side	35
3.	Photograph of solar street light	35
4.	Photograph showing the sprinkler installed in the project site	36
5.	Photograph showing eco restoration	37
6.	Photograph showing Barbed Metal wire fencing	37
7.	Photograph of Sign boards	38
8.	Photograph showing warning alarm installed in the project site	39
9.	Photograph of time showing quarry working time	39
10.	Photographs showing the tarred access road to the project site	40
11.	Photograph showing the stacked overburden / top soil.	40
12.	Photographs showing the mining area	41
13.	. Photograph of blasting mat	41
14.	Photograph of crusher	42
15.	Photograph of workers with personal protective equipments	42
16.	Photograph of Drainage	43
17.	Photograph of de-siltation trap	44
18	Photographs showing the covered trucks	44
19	Photograph of hazardous waste storage area	45
20	Photograph showing the magazine (Explosive storage area)	45
21	Photograph of EC Board	46

LIST OF ANNEXURES

Annexure No.	Particulars	Page No.
1.	Permission from DGMS	48
2.	Copy of the receipts of expenses incurred towards CSR activities	50
3.	Certificate of Licensed persons	55
4.	Copy of consent to operate from SPCB	60
5.	Copy of EC order	62
6.	Copy of Explosive License issued by the Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	80
7.	Copy of License for quarry operations from Panchayath	81
8.	Copy of lease order from Dept. Mining and Geology.	82
9.	Newspaper advertisement	84
10.	Copy of monitoring report of noise level	85
11.	Copy of monitoring report of ambient air	86
12.	Copy of monitoring report of water	87
13.	Proof of compliance report submitted	93
14.	Affidavit	94
15.	PUC of vehicles	95
16.	Health check up	98
17.	Purchasing bill of blasting mat	100

INTRODUCTION

The quarry project of M/s Planters Aggregates is situated at Survey No. 168 at Karukutty Village & Panchayath, Alwaye, Ernakulam District, Kerala.

The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 22.12.2017. 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 conditions and general conditions of the Environmental Clearance order for the period of **April 2021 – September 2021** is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A – SPECIFIC CONDITIONS

01	The Mandatory distance between the existing and the proposed quarry should be maintained.	Noted
-----------	--	--------------

Compliance:

The project proponent has obtained permission under Regulation 111(1) of Metalliferous mines Regulations, 1961 to change the mine boundary by extending the mine limits or work on the common boundaries of two quarries from Director General of Mines Safety (DGMS). . The copy of Permission is attached as **Annexure No.1**. As per this permission, it is not necessary to maintain the distance between the existing and the proposed quarry.

02	If any plant species endemic to western Ghats are notice in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.	Noted
-----------	--	--------------

Compliance:

The project proponent had conducted a bio diversity study and submitted the report at State Environmental Impact Assessment Authority (SEIAA), Kerala. The identified species of endemic to Western Ghats will be properly protected. The project proponent has planted various saplings in the project site. There are many trees are existing in and around the project site as green belt.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART – B – GENERAL CONDITIONS

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

Compliance:

Even though it is not specified in KMBR/KPBR to collect rain water in mining area, the proponent has developed rain water harvesting pond in the project site to collect rain water falling in the entire mining area. The storm water from all mining areas is properly channelized to this pond. It is situated in the lowest level of quarry area. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system). The photographs of the ponds are attached as **Plate No.1**. The dimension of each rain water harvesting pond is mentioned below as L x W x D

Pond 1

45 Mtr x 60 Mtr x 5 Mtr

Pond 2

40 Mtr x 50 Mtr x 5 Mtr

Pond 3

40 Mtr x 150 Mtr x 5 Mtr

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) formed and made functional with Mr. Saji Vadakkekara as head of the monitoring cell. The EMC meeting arranges regularly for a sustainable environment.

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.	Being complied
-----------	--	-----------------------

Compliance:

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted suitable avenue trees along either side of the road. There is also natural vegetation including trees, shrubs and climbers are presents in the project area. The photograph of avenue trees is attached as **Plate No.2**.

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 street lights in the project site to generate and utilize maximum renewable energy. The project proponent has installed 8 numbers of solar street lights. The photograph of the same is attached as **Plate No.3**.

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

Compliance:

The project proponent splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials. To prevent dust emission 20 permanent sprinklers are installed in the project site. The photograph of the permanent sprinklers and vehicle for wetting is attached as **Plate No.4**.

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 proponent has started to plant various saplings within the project area. The project proponent has planted about 100 tree saplings in connection with the instant project. The photograph of the same is attached

as **Plate No.5**. 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.	Will be complied
-----------	--	-------------------------

Compliance:

The project proponent will retain 10 percent of total excavated pit as rain water storage area. 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:

The project has carried out many activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER). The detail of CSR provided in the period is mentioned in the **Table No.1**. The receipts area attached as **Annexure No. 2**.

Table No.1 – CSR/CER Details

Sectors	Activities	Beneficiaries	Amount spent in Rs.
Health	Medical Aid	Babu	10000
	Medical Aid	We one pain & palliative care	500
	Medical Aid	Joy K A	3000
	Medical Aid	Tomy K T	2000
	Medical Aid	Jinu john	3000
	Medical Aid	Gopalakrishnan	500

	Medical Aid	Muthiparamnil Mohanan	4000
	Medical Aid	Ravi K T	500
Infrastructure Development	House Maintenance	Subhramaniuan	11250
	House Maintenance	Jese veetika	6400
	House Maintenance	Soji Kotturan	4500
	House Maintenance	Gracy thomas	7500
	House Maintenance	Varghese P A	3300
	House Maintenance	Wilson	3750
	House Maintenance	Satheesh m k	4200
	House Maintenance	manesh	1000
	House Maintenance	Antu	1900
	House Maintenance	Delson poulose	7500
	House Maintenance	Anandhu subhran	3200
	House Maintenance	Dileep kumar	4200
Social welfare	Donation	Kerala cultural center	3000
	Donation	Immanuel Orphanage	89700
	Donation	Kerala pulayan maha sabha	2000
	Donation	Syamala ayappan	2000
	Donation	salgu	7500
	Donation	AITCU	500
	Donation	Kanivu charitable trust	6600
Education	Donation	Educational Service Society Of India	2000
Skill Development	Donation	SNDP Library PAllissery	33000
Total			228500

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 demarcate the lease area, the project proponent has installed fencing with a height of 4 ft. around major part of the project site where Environmental Clearance and lease obtained before the starting of mining. All the boundary indicators are protected at all times and clearly visible at any time in a notifiable way. The photograph of the fencing with barbed wire metals is attached as **Plate No.6**. The various sign boards can be seen in **Plate No.7**.

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:

To comply condition stipulated by Explosive department and Environmental clearance order, the project proponent has installed warning alarms(siren) in the quarry site. The blasting timings are displayed in the prominent area by way of caution board. The photograph of the warning alarm is provided in **Plate No.8**.

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 measures. 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:-

- The machineries like breaker and excavator has well sound proof cabin so that the machine operators can work without stress due to the sound.

- Proper maintenance of machinery and equipments
- Personal protective devices i.e., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- The mining activity held in day time only.

Blast vibrations and control measures

- ❖ Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- ❖ 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.
- ❖ The project proponent has appointed qualified persons to monitor the mining operations

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

Compliance:

To reduce the adverse impact of the quarry to the local community, quarrying activities are limited to day time only as per KSPCB guidelines. The photograph of board indicating the time of quarrying operation is attached as **Plate No.9**.

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 NoNEL detonators. All blasting activities are carrying out with the specified regulations of explosive department. All blasting are under careful supervision of qualified persons.

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

Compliance:

The project proponent has appointed licensed person in the site to supervise/control exploitation of minor minerals including blasting at the project site. The copy of certificates of licensed person is attached as **Annexure No.3**.

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

Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project proponent has maintaining the access road to the quarry site. The project proponent splashes water on the road to arrest the dust production during summer season. The project proponent is regularly maintaining the access road in a good manner. The photograph of the access road is attached as **Plate No.10**. The access road has sufficient width of 7 to 8 meters and tarred about 200 meters length.

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 byproduct of building stone quarry. There is no old quarry in the site for restoration. The overburden materials are stored within the site at designated place. This will be used to restore the exploited area in future. The OB dump is attached as **Plate No.11**.

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.	Complied
----	---	-----------------

Compliance:

All mining activities are progressing under the supervision of qualified personals. To enhance safety and to make environment friendly quarrying, the excavation activity

in the project is progressing by creating benches of 5m width x 5m height. The photograph of the same is attached as **Plate No.12**.

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

Compliance:

The project proponent is using Nonel delay detonators for blasting therefore there is no incident of fly rock falling beyond 100 metres. The mat is using during blasting time to prevent fly rock. The correct quantity of explosive is used under the supervision of qualified person. The photograph of the same is attached as **Plate No.13**. The bill copy if blasting mat is attached as **Annexure No. 17**

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

Compliance:

The project proponent is following the approved mining plan for the exploitation of building stone. Therefore mining depth does not exceed beyond 10 meter. The instant project has started its mining activity in 2020.

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

Compliance:

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.	complied
----	--	----------

Compliance:

To reduce the impact of sound to the labours in the unit, the project proponent 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 proponent is trying to enhance the vegetative cover by planting more tree saplings. The photograph of the crusher unit is attached as **Plate No.14**.

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

Compliance:

The project proponent has provided adequate Personnel Protective Equipments (PPE) such as helmets, ear muffs, safety belts, gloves, etc. to ensure the safety of workers in working site. . The workers with PPE are attached as **Plate No.15**.

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

Compliance:

The project proponent ensures that all storm water from the mining area is flowing in to the pond creating at mining area. The project proponent has constructed good drainages where it is necessary in the lower slopes of the project area for storm water management. The photograph of drainage is provided in **Plate No.16** and clarifiers in **Plate No. 17**.

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

Compliance:

To avoid dust emission from the vehicle while transportation of materials the project proponent assure that the trucks are covered before leaving the site. The photograph of the same is attached as **Plate No. 18**.

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

Compliance:

The project proponent has 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. The number of uprooted trees in the instant project is 90 and the number of planted tree saplings and floral species is 250. The project proponent is planning to plant more tree saplings in the project site.

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

Compliance:

The used oil and oil filters are taken back by the supplier of oil. Therefore the project proponent needs not to keep the spent oil even for one day. The photograph of the same is attached as **Plate No.19**.

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

Compliance:

As part of safety, Explosives are stored in magazine. The magazine situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire. The photograph of the same is attached as **Plate No. 20**.

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:

To keep a safe zone to the residents, community resource and public infrastructure, the norms of Kerala State Pollution Control Board regarding the distance criteria of houses, roads, rivers and worship places is adhered by the project. The distance of the nearest house is above 142 meter from the quarry, the KSPCB condition is 50 meter.

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

Compliance:

There is no forest near to the project site. The nearest forest is Sholayar Reserve Forest which is 8.50 km away from the project site.

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

Compliance:

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

31	All other statutory clearances should have been obtained, as 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**

TABLE 2 – APPROVALS FROM COMPETENT AUTHORITIES

Name of the Statutory approval	Name of the Statutory authority
Environmental Clearance order Valid up to 21-12-2022	State Environmental Impact Assessment Authority, Kerala

“Consent to Operate” (Renewal) Valid up to 31-03-2024	Kerala State Pollution Control Board
Explosive License Valid up to 31-03-2026	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)
License for quarry operations Valid up to 30-06-2023	Gram Panchayath
Lease order 05-11-2031	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:

At present the project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India and approved mining plan. There is no change in the scope of the project. The project will seek for a new Environmental clearance in the case of any change(s) in the scope of the project.

33	The Authority reserves the right to add additional safe guard 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 proponent is willing to add all possible 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

- Kerala Minor Mineral Concession Rules, 2015.
- Mines Act, 1952
- Explosive Rules, 2008
- Kerala Panchayat Raj Act, 1994
- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Environment Protection Act, 1986
- EIA Notification, 2006 / 2009
- The Kerala Promotion of Tree Growth in Non-Forest Areas (Amendment) Act, 2007.

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 daily newspapers (English and Malayalam) regarding Environmental Clearance accorded to the quarry project was given within the stipulated period and the copy of the same was submitted at SEIAA Kerala. The copy of the news paper advertisement is attached as **Annexure No.9**. The detail of the same is provided below in the table.

TABLE 3 – Newspaper Advertisement

Name of News paper	Language	Published date
Deccan chronicle	English	09-01-2018
Mangalam	Malayalam	09-01-2018

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 Panchayat Office. The project proponent did not receive any suggestions / representation from anywhere while the processing the proposal therefore did not give the copy of clearance letter to anyone.

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 the respective Regional Office of MoEF, Govt. of India and also to	complied
-----------	---	-----------------

	the State Environment Impact Assessment Authority (SEIAA) office.	
--	---	--

Compliance:

The compliance report is being submitted to the State Environmental Impact assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail. The monitored data of Air, Water and Noise is attached as **Annexure No. 10, 11 & 12**. The proof of submission of last compliance report is attached as **Annexure No. 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 details of Environmental Clearance are 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. The photograph of the EC board is attached as **Plate No.21**.

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 SEIAA Kerala. The copy of affidavit Submitted at SEIAA is attached as **Annexure No. 14**.

40	No change in mining technology and scope of working should 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.	Noted
----	--	--------------

Compliance:

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

41	The project proponent shall ensure that no natural water course 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:

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

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

Compliance:

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 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.	Complied
----	--	-----------------

Compliance:

The natural resources ie, top soil and overburden is stacked in a designated place within the project site. Only topsoil is used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction of State Environment Impact Assessment Authority (SEIAA).

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:

The project proponent is regularly spraying water in critical areas prone to air pollution with the help of vehicle and sprinklers. The project proponent will increase the number of sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points.

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:

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

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

Compliance:

The noise level from all these activities will not go beyond 85dBA. The main sound generating activities are the operation of jack hammer, breaker, vehicles and blasting. The project proponent has taken 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 has constituted an Environment Monitoring 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.	complied
----	---	-----------------

Compliance:

The project proponent could execute many activities under Corporate Social Responsibility (CSR) for community development. To implement these activities in a good manner, the project proponent has opened an account for keeping the funds earmarked for environmental protection and CSR. The amount spent under CSR is being reported through compliance report

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 form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

51	Any appeal against this environmental clearance shall lie with the 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 notwithstanding 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.	Noted
----	---	-------

Compliance:

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

55	This order is valid for a period of 5 years or the expiry date of 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. The mining activity is started in 2020 back in the instant project site.

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 has been monitoring the pollution level of all vehicles playing in the project site. This monitoring is being conducted only in authorized pollution checking center. The copy of PUC certificate is attached as **Annexure No. 15**.

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	Noted
----	--	-------

	around the mine lease area shall be carried out and reported in the six monthly report to SEIAA.	
--	---	--

Compliance:

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

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 conducted occupational health surveillance program for the labours working in mining area, the details of labours is attached as **Annexure No. 16**.

PLATES

(Photographs of project)

Plate No.1



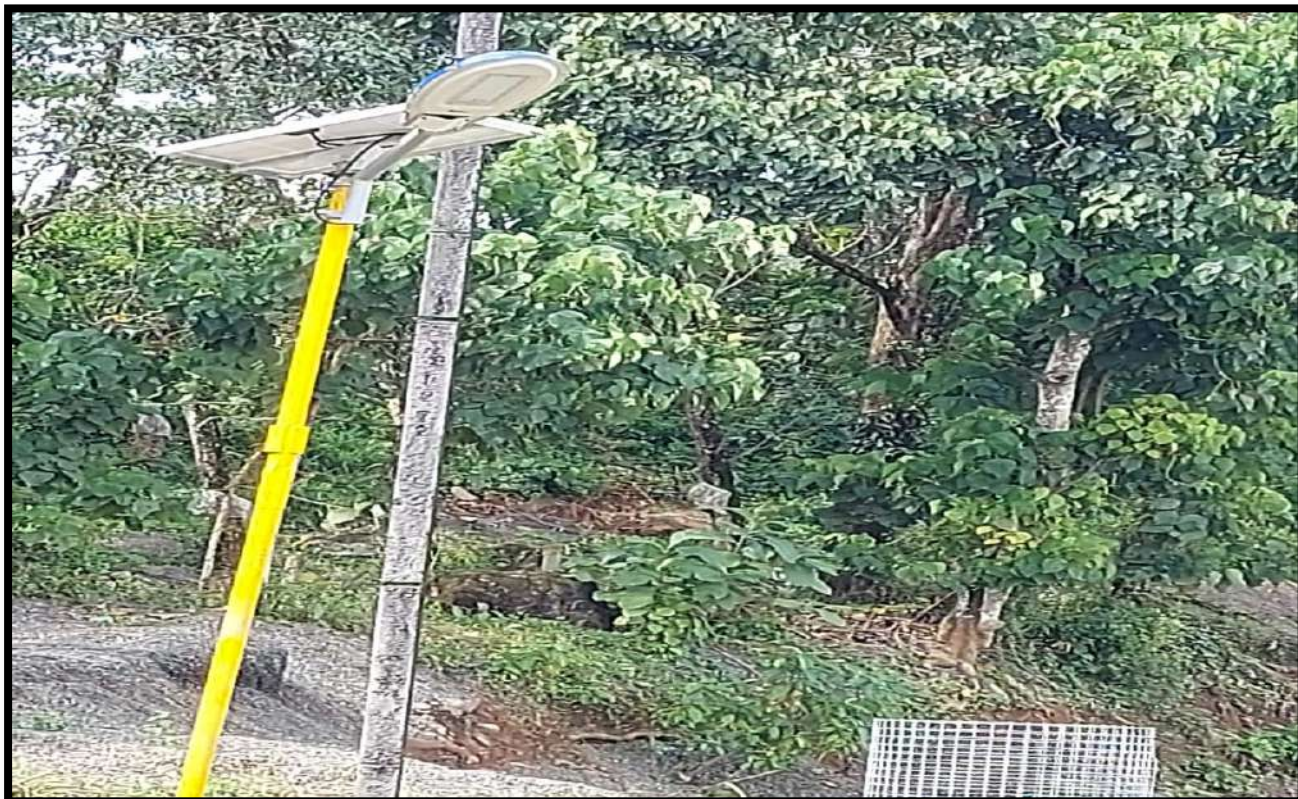
Rain Water Harvesting Pond

Plate No. 2



Avenue Trees

Plate No. 3



Solar

Plate No.4



Sprinkler

Plate No.5



Eco restoration

Plate No.6



Fencing

Plate No.7



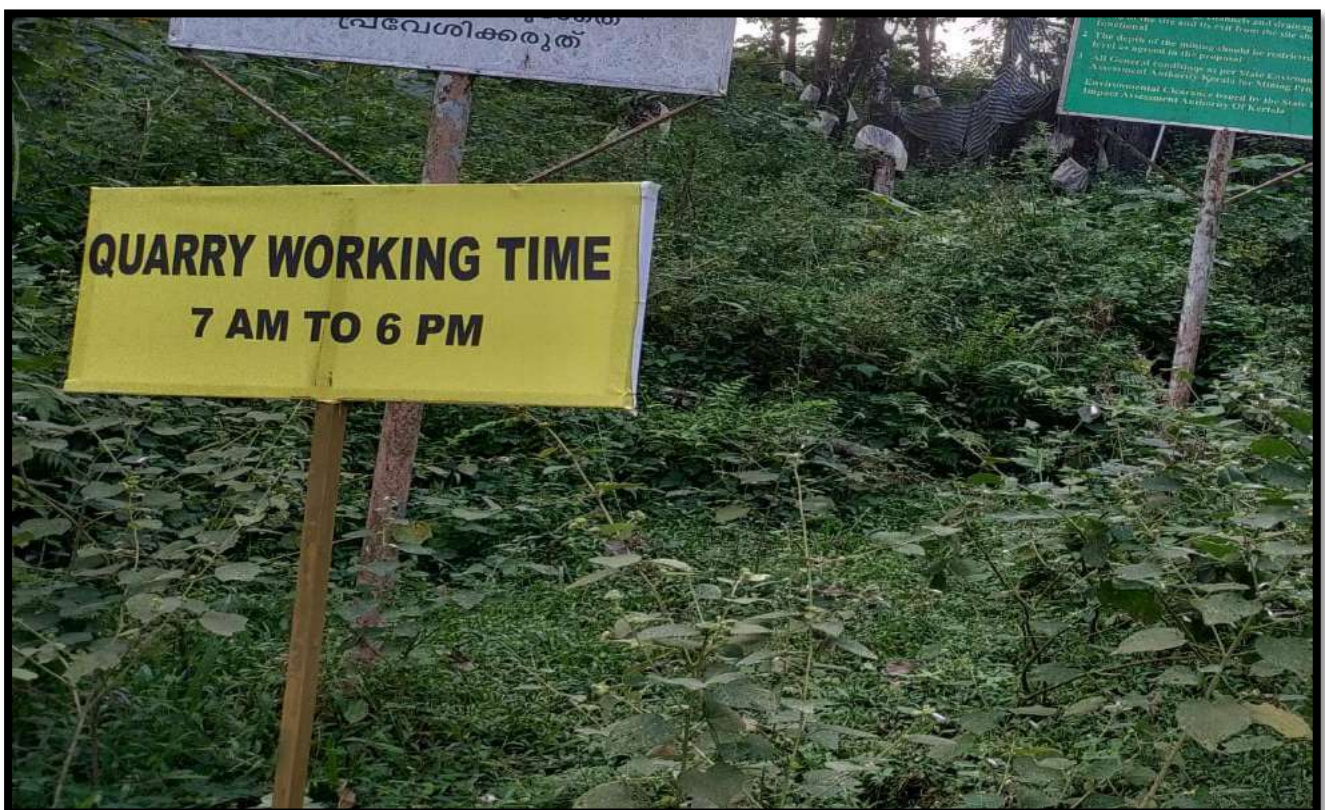
Signboard

Plate No.8



Warning Alarm

Plate No.9



Quarry working time

Plate No.10



Tarred Road

Plate No.11



Overburden

Plate No.12



Mining area

Plate No.13



Blasting mat

Plate No.14



Crusher

Plate No.15



Labors with PPE

Plate No. 16



Drainage

Plate No. 17



Clarifiers
Plate No. 18



Covered Truck

Plate No.19



Hazardous Waste storage area

Plate No. 20



Magazine

Plate No. 21



EC Board

ANNEXURE

Annexure No.1



9/28/2020

Email

Email Letter

Letter No

301468|SZ|Bengaluru Region|Perm|2020|6541|PLCommon_MMR1961|2

	भारत सरकार Govt. of India श्रम एवं रोजगार मंत्रालय Ministry of Labour & Employment खान सुरक्षा महाविदेशालय Directorate-General of Mines Safety	
NO: 301468 SZ Bengaluru Region Perm 2020 6541		Date: 28/09/2020

From: The Director of Mines Safety,

Bengaluru Region,

DGMS, SZ, Bengaluru-560071.

To:

Shri Saji Vadakkekara

Owner: Planters Mine,

M/s Planters Aggregates,

Palissery, Angamaly,

Ezhattumugham PO, Ernakulam,

Kerala-683 577.

Subject: Permission under Regulation 111(1) of the Metalliferous Mines Regulations, 1961 to change the mine boundary by extending the mine limits of Planters Mine of M/s Planters Aggregates (Owner: Sri Saji Vadakkekara), Re. Sy. No. 168 (Re. Sy. Block No.1) of Karukutty Village, Aluva Taluk, Ernakulam District, Kerala State.

Sir,

Please refer to your Online application reference no. ID No.129384 dated 30.08.2020, letter no. Nil dated 28.08.2020, enclosing therewith a surface Plan No. PA/EMB/SPS/07-2020 dated 30.07.2020, Plan No. PA/PMB/SP/07-2020 dated 30.07.2020 & Plan No. PA/NMB/SP/07-2020 dated 30.07.2020 on the above subject.

approval-permission-dgms.gov.in/PermissionExemptionRelaxation/PEREmailCorrespondence/Draft?q=haFFORi9cs7T%2fG57XRuyw%3d%3d

1/2

28/2020

Email

The matter has since been examined on the basis of the information furnished and plans & sections submitted by you. By virtue of the powers conferred on the Chief Inspector of Mines (also designated as Director General of Mines Safety) under the provisions of Regulation 111(1) of the Metalliferous Mines Regulations, 1961 and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952, you are hereby permitted to change the mine boundary of Planters Mine of M/s Planters Aggregates (Owner: Sri Saji Vadakkekara), by amalgamating the areas bounded by "P1 to P2, P2 to P3, P3 to P4, P4 to P5, P5 to P6, P6 to P7, P7 to P8, P8 to P9, P9 to P10, P10 to P11, P11 to P12, P12 to P13, P13 to P14, P14 to P15, P15 to P16, P16 to P17" as shown on Plan No. PA/NMB/SP/07-2020 dated 30.07.2020 in Survey number Re. Sy. No. 168 (Re. Sy. Block No.1) (Case Proc.No.660/2010-11/9439/M3/2010 Dated 03.01.2011 & Pro.No 450/2019-20/10951/M3/2018/DMG dated 06.11.2019) at Planters Mine of M/s Planters Aggregates (Owner: Sri Saji Vadakkekara), Sy. No. 168 of Karukutty Village, Aluva Taluk, Ernakulam District, Kerala State, subject to the following conditions being strictly complied:

1. The re-adjusted boundary shall be shown on all the statutory plans. As required under Regulation 3, a plan showing the new boundary shall be submitted within seven days of the said change to the Director-General of Mines Safety and the concerned Director of Mines Safety. The Plan shall also show the statutory barrier on all sides of the boundary, in green hatched lines, as per Regulation 111(2) of the Metalliferous Mines Regulations, 1961.
2. This permission is being issued especially under the Regulations mentioned above and without prejudice to any other provisions of law which may be or may become applicable at any time.
3. All the permissions/exemptions/relaxations granted in the past under various regulations of the Metalliferous Mines Regulations, 1961 and the Mines Rules, 1955, at the above mine shall also be valid for the new area granted under this permission.
4. This Directorate shall be informed as soon as the mining operations are commenced in accordance with the above permission and intimation about completion of mining operations should also be sent promptly and in any case not later than one month thereof.
5. In the event of any change in circumstances connected with the permission is likely to endanger life of the workmen employed in the mine or endanger the mine, the mining operation for which permission has been granted shall be stopped forthwith and intimation thereof sent to the concerned Director of Mines Safety and Dy. Director of Mines Safety. The said mining operations shall not be resumed without fresh written permission from this Directorate.
6. If at any time anyone of the conditions subject to which this permission has been granted is violated or not complied with, this permission shall be deemed to have been revoked with immediate effect.
7. Above permission may be amended or withdrawn at any time if considered necessary, in the interest of safety.
8. A hard copy of this permission shall always be kept in the office of the Manager of the mine for reference.

Your Faithfully



UMESH MADHUKAR RAO SAWAKAR (DIRECTOR(ACTING) - BENGALURU REGION)


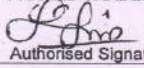
THIS IS A SYSTEM GENERATED DOCUMENT, DOES NOT REQUIRE ANY SIGNATURE.

approval-permission-dgms.gov.in/PermissionExemptionRelaxation/PEREmailCorrespondence/Draft?q=haFFOR19cs7T%2fqG57XRuyw%3d%3d

2/2

Permission from DGMS

Annexure No.2

TAX INVOICE							
 PRASAD TRADERS Paduvapuram PO, Mookkannoor Angamaly, Ernakulam (Dist.) Kerala, India Phone: 94461 50744 FSSAI Lic.No: 11320007001587 GSTIN/UIN: 32ASQPP5498R1ZH State Name : Kerala, Code : 32 E-Mail : arjun.nijaprasad@gmail.com	Invoice No. GST/21-22/1668		Dated 29-Sep-2021				
	Delivery Note		Mode/Terms of Payment				
Supplier's Ref.		Other Reference(s)					
Buyer's Order No.		Dated					
Despatch Document No.		Delivery Note Date					
Despatched through		Destination					
Bill of Lading/LR-RR No.		Motor Vehicle No. KL 41 D 3688					
Terms of Delivery							
SI No.	Description of Goods	HSN/SAC	Alt. Quantity	Quantity	Rate	per	Amount
1	Kuruva Rice 50kg	10063010	500.000 kg	10 bag	29.90	kg	14,950.00
Total			500.000 kg	10 bag			₹ 14,950.00
Amount Chargeable (in words) Indian Rupees Fourteen Thousand Nine Hundred Fifty Only							E. & O.E
HSN/SAC							Taxable Value
10063010							14,950.00
Total							14,950.00
Tax Amount (in words) : NIL							
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. Customer's Seal and Signature				Company's Bank Details: Bank Name : THE FEDERAL BANK LIMITED A/c No. : 10475500036993 Branch & IFS Code : MOOKKANNOOR & FDRL0001047 for PRASAD TRADERS  Authorised Signatory			

ഞാൻ ഐ.ജി.കെ.എ. കെ.എ.എസ്. വിൽ, പാലിശ്ശേരി
 ടി.എസ്.എസ്.എസ്. (TSCMS College) ന്റെ നമ്പർ
 ജി.എസ്.എസ്. കിഴക്കേക്കരയിൽ, ഇടത്ത് P.O, നാലുക്കുട്ടി
 തിരുവിതാംകൂർ. കിഴക്കിന് തെക്കായി. അതിന്റെ LP പേരിട്ടിട്ടു
 ഉണ്ട്. ~~എന്നിടത്ത് ഉണ്ടായിരുന്ന~~ ജി.എസ്.എസ്. വി.കി.എസ്.എസ്.
 പാലിശ്ശേരി. പാലിശ്ശേരിയിൽ അതിന്റെ പേരിട്ടിട്ടു
 R. - 2000/- (രൂപ രണ്ടായിരം) ഇതേ ദിവസം ഞാൻ.
 കൊടുത്തിട്ടുണ്ട്.

ജി.എസ്. കെ.എ. കെ.എ.എസ്. വിൽ
 Ph-9947740342



June - 9947330056


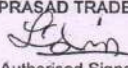
ഞാൻ ഐ.ജി.കെ.എ. കെ.എ.എസ്. വിൽ, പാലിശ്ശേരി
 ടി.എസ്.എസ്.എസ്. (TSCMS College) ന്റെ നമ്പർ
 ജി.എസ്.എസ്. കിഴക്കേക്കരയിൽ, ഇടത്ത് P.O, നാലുക്കുട്ടി
 തിരുവിതാംകൂർ. കിഴക്കിന് തെക്കായി. അതിന്റെ LP പേരിട്ടിട്ടു
 ഉണ്ട്. ~~എന്നിടത്ത് ഉണ്ടായിരുന്ന~~ ജി.എസ്.എസ്. വി.കി.എസ്.എസ്.
 പാലിശ്ശേരി. പാലിശ്ശേരിയിൽ അതിന്റെ പേരിട്ടിട്ടു
 R. - 2000/- (രൂപ രണ്ടായിരം) ഇതേ ദിവസം ഞാൻ.
 കൊടുത്തിട്ടുണ്ട്.

ജി.എസ്. കെ.എ. കെ.എ.എസ്. വിൽ
 Ph-9947740342



June - 9947330056

TAX INVOICE

 PRASAD TRADERS Paduvapuram PO, Mookkannoor Angamaly, Ernakulam (Dist.) Kerala, India Phone: 94461 50744 GSTIN/UIN: 32ASQPP5498R1ZH State Name : Kerala, Code : 32 E-Mail : arjun.nijaprasad@gmail.com	Invoice No.	Dated					
	GST/21-22/1409	30-Aug-2021					
Buyer Planters Aggregates Palissery Supplied to Emmanuel Orphanage Reg. No 588/2000 GSTIN/UIN : 32AEGPV9147K1ZY State Name : Kerala, Code : 32	Delivery Note	Mode/Terms of Payment					
	Supplier's Ref.	Other Reference(s)					
	Buyer's Order No.	Dated					
	Despatch Document No.	Delivery Note Date					
	Despatched through	Destination					
	Bill of Lading/LR-RR No.	Motor Vehicle No.					
	K L 41 D 3688						
	Terms of Delivery						
SI No.	Description of Goods	HSN/SAC	Alt. Quantity	Quantity	Rate	per	Amount
1	Kuruva Rice 50kg	10063010	500.000 kg	10 bag	29.90	kg	14,950.00
Total			500.000 kg	10 bag			₹ 14,950.00
Amount Chargeable (in words)							E. & O.E
Indian Rupees Fourteen Thousand Nine Hundred Fifty Only							
HSN/SAC							Taxable Value
10063010							14,950.00
Total							14,950.00
Tax Amount (in words) : NIL							
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct. Customer's Seal and Signature				Company's Bank Details Bank Name : THE FEDERAL BANK LIMITED A/c No. : 10475500036993 Branch & IFS Code : MOOKKANNOOR & FDRL0001047 for PRASAD TRADERS  Authorised Signatory			



ഞാൻ ദിലീപ് കുമാർ. വി.വി, പെരിയനാട് റിറ്റ്,
പാലിയൂരിൽ താമസിക്കുന്നു. എന്റെ വിട്രിന്റെ
റിപ്പോർട്ടിനും ഭേദിച്ച് പ്ലാൻ്റ് ഫ്സ് അക്രിഡിറ്റിഫിക്കേഷൻ
നമ്പർ R- 42001- (അപ്ലൈഡ് ചെയ്ത) ഇക്കണൻ്റ്
വിലയ്ക്കും മെറ്റീരിയൽസ് ഇന്നേ ട്രിഡിംഗ്
ഞാൻ ഡ്രജസ്റ്റർ മാലി കൈപ്പറ്റിയിട്ടുണ്ട്
എന്ന് ദിലീപ് കുമാർ. വി.വി.

പാലിയൂരി
06/05/2021



Ph- 8943243403

ഞാൻ അനന്ത, ഡിംഗ് നമ്പർ, മൂലംകുടി റിറ്റ്, കാന്താമുക്ക
താമസിക്കുന്നു. എന്റെ വിട്രിന്റെ റിപ്പോർട്ടിനും ഭേദിച്ച്
പ്ലാൻ്റ് ഫ്സ് അക്രിഡിറ്റിഫിക്കേഷൻ നമ്പർ R- 32001- (അപ്
മൂലംകുടി ചെയ്ത) വിലയ്ക്കും മെറ്റീരിയൽസ് ഇന്നേ ട്രിഡിംഗ്
ഞാൻ ഡ്രജസ്റ്റർ മാലി കൈപ്പറ്റിയിട്ടുണ്ട്

പാലിയൂരി
03/05/2021

എന്ന് അനന്ത, മൂലംകുടി
കാന്താമുക്ക




Phone - 8943501814

ഞാൻ ഡയർക്ടർ പട്ടാമ്പി, മിടലൂരിൽ വീട്,
 താരകമ്മു താമസിക്കുന്നു. - ഒരു വിദേശൻ നിർമ്മാണ
 രീതി വേണ്ടി പൊതു ഫണ്ട് അതിവേഗത്തിൽ നൽകാൻ.
 Rs - 7500/- (രൂപ ഏഴായിരത്തി അഞ്ചു) വിലയ്ക്കു
 വെട്ടിയിടാൻ. ഇങ്ങനെ ദിനം ഞാൻ പട്ടാമ്പി
 മിടലൂരിൽ വീട്.

എന്നും
 ഡയർക്ടർ പട്ടാമ്പി
 മിടലൂരിൽ

പരിശോധി.
 22/04/2021.



Phone - 9048054703

KERALA CULTURAL CENTRE
 (Registered under the Literary Scientific and Charitable Societies)
 Registration No. KTM/TC/278/2019
 P. O. : Peruva P. O., Pin- 686610, Kerala

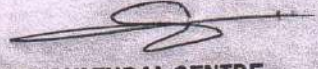
No. KTM/TC/278/19
 017
 PERUVA-686 610

Date: 19/04/21

Donation

Received with thanks from Planters Aggregates
Palissarey a sum of
 rupees only.

₹ 3000/-


 KERALA CULTURAL CENTRE

Copy of receipts of CSR/CER

Annexure No.3

Cert No. FMR/2223

भारत सरकार / Government of India
खान अधिनियम, 1952 / Mines Act, 1952
खनन परीक्षा बोर्ड / Board of Mining Examinations

प्रथम श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र
FIRST CLASS MANAGER'S CERTIFICATE OF COMPETENCY
(केवल ओपेनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री सावंत देसाई विशावास शिवाजी सुपुत्र सावंत देसाई शिवाजी
जिनकी जन्म तिथि 15.05.1979 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने एवं अक्टूबर, 2009 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा ओपेनकास्ट धात्विकीय खानों के प्रबंध हेतु प्रथम श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र 05.04.2010 से प्रभावी है।

Shri Sawant Dessai Vishavash Shivaji son of Sawant Dessai Shivaji
born on 15th May, 1979
having given satisfactory evidence of possessing the prescribed qualifications and experience and having passed the examination held in October, 2009 is hereby granted FIRST CLASS MANAGER'S CERTIFICATE OF COMPETENCY to manage the metalliferous mines having opencast workings only. This certificate is effective from 05.04.2010

सचिव
खनन परीक्षा बोर्ड
Secretary
Board of Mining Examinations

अध्यक्ष
खनन परीक्षा बोर्ड
Chairman
Board of Mining Examinations

Signed and Sealed
Date 08.04.11.

GOVERNMENT OF INDIA
MINISTRY OF LABOUR
DIRECTORATE GENERAL OF MINES SAFETY, DHANBAD

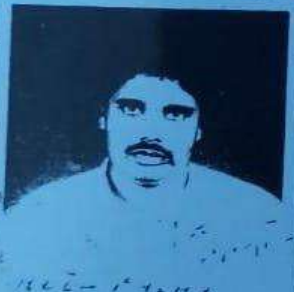
No. Exam/Exempt/FM/UR/756/167
to
Sri Adil Pasha
Jhanjra Project
B.G.M.L. Contract Work
PO. Loudoha
Distt. Burdwan

Date : 18.11.93

MEMORANDUM

Ref. : His application dated 26.8.93

By virtue of Government Notification No. 712(E)
dated 13.12.74 Shri Adil Pasha
S/O Abdul Rahaman of Village Doddu Vallag Madi
Thana Oorgarum District Oorgaum
State Karnataka Born on 1st September 1964
possessing a Diploma in Mining Engineering and Mine Surveying
approved under Regulations 18 of MMR 1961, and on completion
of prescribed experience has become eligible to work in a
capacity requiring possession of Foreman's Certificate under
Metalliferous Mines Regulations 1961. This Certificate is
effective from 21.12.92 till the above notification
remains in force.



Secretary,
Board of Mining Examinations &
Director of Mines Safety (Exam)

18/11/93

18/11/93
Director of Mines Safety, Chennai Region.

Valid upto 26/12/2015

2021/02/01

Encl. : 1. Matric Cert. 2. Diploma Cert.
3. FAC (Prov) 4. GT Cert.
5. Medical & Character a.




सत्यमेव जयते

Cert No. MR/SZ/599

भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952

खनन परीक्षा बोर्ड/Board of Mining Examinations
खनन मेट सक्षमता प्रमाण-पत्र
MINING MATE'S CERTIFICATE OF COMPETENCY
(केवल ओपेनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री DAVIS GEORGE पुत्र GEORGE D. है, को अपनी
जिनकी जन्म तिथि 31ST MAY, 1969 (SIXTY NINE)
आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण
प्रस्तुत करने एवं दिनांक 23.03.2015 को केन्द्र पर आयोजित
विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र
प्रदान किया जाता है।

Shri DAVIS GEORGE son of GEORGE D.
born on 31ST MAY, 1969 (SIXTY NINE) having given satisfactory evidence of his age,
medical fitness, good character, literacy and prescribed experience of working in metalliferous
mines and having passed the prescribed examination held at GVTC, C.N.HALLI, TUMKUR
centre on 23.03.2015 is hereby granted MINING MATE'S CERTIFICATE OF
COMPETENCY restricted to mines having opencast workings only.



बाएँ 3 का निशान
Left hand thumb impression

अंचल सचिव अंचल सचिव
खनन परीक्षा बोर्ड खनन परीक्षा बोर्ड
Zonal Secretary क्षेत्रीय अंचल सचिव
Board of Mining Board of Mining
Examinations Southern Zone

Signed and Sealed
Date 16/07/2015


PAUL ANTON
 MINE MANAGER

अध्यक्ष
खनन परीक्षा बोर्ड
Chairman
Board of Mining
Examinations





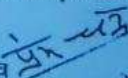
Cert No. MR/SZ/600

भारत सरकार/Government of India
 खान अधिनियम, 1952/Mines Act, 1952
 खनन परीक्षा बोर्ड/Board of Mining Examinations
 खनन मेट सक्षमता प्रमाण-पत्र
MINING MATE'S CERTIFICATE OF COMPETENCY
 (केवल ओपेनकास्ट खानों तक सीमित)
 (Restricted to mines having opencast workings only)
 (धात्विकीय खान विनियम, 1961 के अन्तर्गत)
 (Under the Metalliferous Mines Regulations, 1961)

श्री सुपुत्र
 जिनको जन्म तिथि है, को अपनी
 आयु, स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण
 प्रस्तुत करने एवं दिनांक को केन्द्र पर आयोजित
 विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र
 प्रदान किया जाता है।

Shri SAJI V.V. V.P.VARGHESE
 born on 30TH MAY, 1968 (SIXTY EIGHT), giving satisfactory evidence of his age,
 medical fitness, good character, and prescribed experience of working in metalliferous
 mines and having passed the prescribed examination held at GVTC, C.N.HALLI, TUMKUR
 centre on 23.03.2015 is hereby granted MINING MATE'S CERTIFICATE OF
COMPETENCY restricted to mines having opencast workings only.

बाएं ह.  का निशान
 Left hand thumb impression

अंचल सचिव 
 खनन परीक्षा बोर्ड
 Zonal Secretary
 Board of Mining
 Examinations
 Southern Zone, Bangalore

अध्यक्ष
 खनन परीक्षा बोर्ड
 Chairman
 Board of Mining
 Examinations

Signed and Sealed
 Date 16/07/2015

Scanned with CamScanner

अनुज्ञप्ति प्रारूप एलई-10 | Form I.E-10
 शॉर्ट फायर कर्ता प्रमाण पत्र | Shot Firer's Certificate
 (अनुसूची IV के भाग 1 का अनुच्छेद 10 देखें | See article 10 of Part 1 of Schedule IV)
 (विस्फोटक नियम, 2008 का नियम 107(5) देखें | see rule 107(5) of Explosives Rules, 2008)

(खान अधिनियम, 1952 के अधीन न आने वाले क्षेत्र में विस्फोट करने के लिए सक्षमता प्रमाणपत्र)
 (Certificate of competency to carry out blasting of explosives in area not coming under the Mines Act, 1952)

क्रमांक | No.: E/SE/KL/30/744(E79837)

प्रमाणित किया जाता है कि श्री Reji K Paul,
 जिनका जन्म 20/05/1973 को हुआ था, जो Kavanachotti H Kinginimattom P.O., Kolenchery, ERNAKULAM, Kerala - 682311 के निवासी हैं, ने कोच्ची द्वारा तारीख को आयोजित शॉर्ट फायर की परीक्षा तारीख को उत्तीर्ण कर ली है और वह विस्फोटक अधिनियम, 1884 और उसके अधीन विरचित नियमों के उपबंधों के अधीन रहते हुए खान अधिनियम, 1952 की परिधि के अंतर्गत आने वाले खानों से अन्यथा क्षेत्र में नीचे यथा उल्लिखित विस्फोटकों का उपयोग करते हुए विस्फोट प्रचालन करने के लिए अधिकृत है।
 This is to certify that **Shri Reji K Paul**,
 born on 20/05/1973, resident of Kavanachotti H Kinginimattom P.O., Kolenchery, ERNAKULAM, Kerala - 682311 passed the shotfirer's examination held on conducted by Ernakulam and is authorised to conduct blasting operations as mentioned below using explosives in areas other than mines coming under the purview of the Mines Act 1952, subject to the provisions of the Explosives Act, 1884 and the rules framed thereunder.

विस्फोट करने के अधिकृत वर्ग, प्रवर्ग और प्रकार:
 वर्ग: (ख), श्रेणी: सामान्य जमीन के ऊपर, जमीन के ऊपर ब्लास्टिंग आपरेशन
 Authorised class, category and type of blasting:
 Class: (B), Category: General aboveground, All phases of aboveground blasting operation

(नियम 107 का उप-नियम (5) का स्पष्टीकरण देखें | See explanation of sub-rule (5) of rule 107)

यह प्रमाणपत्र 19/06/2020 (जारी करने की तारीख से पांच वर्ष) तक विधिमान्य होगा।
 This certificate shall remain valid till 19/06/2020 (five years from the date of issue)

यह प्रमाणपत्र, अधिनियम या उसके अधीन विरचित नियमों अथवा इस प्रमाणपत्र की शर्तों का कोई अधिकमण करने पर या यदि आवेदक द्वारा आवेदन प्रारूप में दी गई सूचना में कोई फर्क या विचलन होता है तो निलम्बित या अभिखंडित कर दिया जाएगा।
 This certificate is liable to be suspended or revoked for any violation of the Act or rules framed thereunder or the conditions of this certificate or if there is any discrepancy or deviation in the information or suppression of facts furnished by the applicant in his application form.

स्थान | Place: एरणाकुलम | Ernakulam
 दिनांक | Date: 19/06/2015
 उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives
 एरणाकुलम | Ernakulam


पुनर्विधिमाम्यनकरण के लिए पृष्ठकन
 Endorsement for revalidation

पुनर्विधिमाम्यनकरण की तारीख
 समाप्ति की तिथि
 Date of Expiry
 अनुज्ञप्ति प्राधिकारी के हस्ताक्षर
 Signature of licensing authority

Copy of certificates of licensed persons

Annexure No.4

5.8885H



KERALA STATE POLLUTION CONTROL BOARD

FILE NO. : PCB/EKM/DO-1/OA-405/15
Date of issue :23/02/2019

INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : R15ERRCTOR955373

Ref : 1. CONSENT NO: R15ERRCTOA964516 dated 10.4.2015
2. Consent No : R15ERRCTO955373 dated : 06/03/2016

The 'Integrated Consent to Operate' issued as per reference above to M/s PLANTERS AGGREGATES, PALISSERY, EZHATTUMUGHAM.P.O, ANKAMALY, ERNAKULAM - 683577 is hereby renewed up to 21/12/2022 and issued to M/s PLANTERS AGGREGATES, PALISSERY, EZHATTUMUGHAM.P.O, ANKAMALY, ERNAKULAM - 683577 The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Survey no.	168
2	Category	RED
3	Validity	21.12.2022

II. Stack Details

Stack No.	Source of Emission	Emission Rate(Nm3/Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

III. CONDITIONS

3.1 The consent issued will be valid only for a period, during the period when all other statutory or necessary clearances from other concerned authorities valid.

3.2 The consent issued from the board is only with respect to the powers vested under the water Act 1974 Air Act 1981 and The Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned Authorities.

Page1

- 3.3 There shall not be any quarrying activity between 6 pm to 6 am
- 3.4 Mining activities shall be done only in the area marked by Mining & Geology.
- 3.5 The PM10 in ambient air at the boundary shall not exceed 100 microgram/m³
- 3.6 The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m³
- 3.7 The sound level (Leq) at 1 m outside the boundary of the site should not exceed the ambient noise Standard applicable to the adjoining areas.
- 3.8 Conditions given in the Environmental clearance shall be strictly complied with. 3.9 Mining shall be done only in the marked area in the mining plan attached with EC.

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

MINI MARY SAM

Digitally signed by MINI MARY
SAM
Date: 2019.02.25 10:34:04 +05'30'

DATE :23/02/2019

SIGNATURE & SEAL OF ISSUING AUTHORITY
Environmental Engineer



To
SAJI VADAKKEKARA,
VADAKKEKARA HOUSE,
MANGATTOOR,
KOLENCHERY.P.O,
ERNAKULAM - 682311

1. This digitally signed document is legally valid as per the Information Technology Act 2000
2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

Copy of consent from PCB

Annexure No.5



Validity expires on 21.12.2022

**Proceedings of the State Environment Impact Assessment
Authority Kerala**

*Present: Prof. (Dr.) K.P. Joy, Chairman; Dr. J. Subhashini, Member and
Sri. P.H.Kurian I.A.S., Member Secretary.*

Sub: SEIAA- Environmental Clearance for the Stone quarry project in Survey No. 168, Karukutty Village, Karukutty Grama Panchayat, Alwaye Taluk, Ernakulam District, Kerala State by Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates - Granted - Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No. 1065//SEIAA/EC3/1912/2016

Dated, Thiruvananthapuram 22.12.2017

- Ref: 1. Application dated.17.12.2015 from Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577
2. Minutes of the 69th meeting of SEAC held on 9th & 10th March 2017
3. Minutes of the 73rd meeting of SEAC held on 30th & 31st May 2017
4. Minutes of the 71st meeting of SEIAA held on 20.07.2017
5. Minutes of the 74th meeting of SEIAA held on 09th October 2017
6. Minutes of 76th meeting of SEIAA held on 16th November 2017
7. Affidavit dt.30.11.2017 received from Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates

ENVIRONMENTAL CLEARANCE NO.102/2017

Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577, vide his application dated 17.12.2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 168, Karukutty Village, Karukutty Grama Panchayat, Alwaye Taluk, Ernakulam District, Kerala State for an area of 4.1885 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) 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 Notification No.S.O.141 (E)

dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Details of the project as furnished by the applicant are as follows;

BASIC INFORMATION OF QUARRY
(To be filled in by the Project Proponent)

PART A

I. Project details		
1.	File No.	1065 / EC3 / 2016 / SEIAA
2.	Name /Title of the project	Environment Clearance for Building Stone Quarry (Minor Mineral) project of M/s Planters Aggregates
3.	Name and address of project proponent.	Mr. SAJI VADAKKEKARA (Applicant & Proprietor), M/s PLANTERS AGGREGATES, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683577
4.	Owner of the land	The land for the proposed quarry is a private owned land and the land is possessed in the name of M/s Planters Aggregates.
5.	Survey No. District/Taluk/ and Village etc.	Survey No. 168, Karukutty Village, Alwaye Taluk, Ernakulam District, Kerala
6.	Details of period of lease or permit with number including the beginning and expiry date of lease/permit period (Copy to be attached)	The proposed project proposal is for an area of 4.1885 ha. [with mine lease (P. O. No. 717/2005-2006/2017/M3/2006) valid up to April, 2018] out of the total area of 16.80 ha. But there was no quarrying operation carried out in the said land.
7.	Present Status of the project a. Date & Year of starting the work of the quarry project b. whether the quarry is working at present or not ? c. If stopped working since when?	The proposed project proposal is for an area of 4.1885 ha. [with mine lease (P. O. No. 717/2005-2006/2017/M3/2006) valid up to April, 2018] out of the total area of 16.80 ha. But there was no quarrying operation carried out in the said land.
8.	Date of submission of Application	17/12/2015
9.	Brief description of the project.	The land for the proposed quarry is a private owned land and the land is possessed in the name of M/s Planters Aggregates. The targeted

		production of mine will be 1,00,000 MTA. The estimated project cost will be Rs. 8 Crores. The expected life of mine estimated will be of about 31 years. The mining operation will be carried out by opencast semi-mechanized method as per approved Mining Plan.	
10	Details of Authorized Signatory and address for correspondence	Mr. SAJI VADAKKEKARA (Applicant & Proprietor), M/s PLANTERS AGGREGATES, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683577	
Land Details			
11	C)Extent of area in hectares	4.1885 hectares	
12	d)Is the property forest land/ Govt. land / own land/patta land	The land for the proposed quarry is a private owned land.	
13	e)Quantity of top soil/over burden produced and managed	A total quantity of 93,543 cu. m. of topsoil is proposed to be removed during the mining operations. The topsoil excavated from the quarry will be dumped / stacked separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation as part of eco-restoration. About 17,452 cu. m of overburden (OB) will be generated throughout the mine life. This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.	
14	f)Latitude and Longitude	Latitude (N)	10°16'27.60" to 10°16'35.21"
		Longitude (E)	76°24'59.17" to 76°25'08.73"
15	g)Topography of land and elevation	Part of the proposed land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc. The highest elevation of the lease area is 115 m MSL and lowest is 65 m MSL	
16	h)Slope analysis	Slope of the lease area is towards North side.	
17	i)Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	Due care will be taken to provide channel all around the foot of hill to collect run off and also to avoid soil erosion. There is no danger of flood or inundation as the proposed working is above the normal ground level. The area is not susceptible to flood.	
18	j)Access road to the site width and condition	7m wide tarred road.	
19	k)Will there be any adverse impact on the aesthetics of the	No, the land used will be fully reclaimed and rehabilitated by backfilling the pits and plantation and pond. Plantation and afforestation will add to the improvement in environment and aesthetic beauty of the area.	

	proposal site	
Mining details		
20	1) Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 115 m to 55m MSL in conceptual phase.
21	Life of mine proposed.	About 31 years.
22	Underground mining if any proposed	No underground mining proposed.
23	Method of Mining	The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan.
24	Distance from the adjacent quarry	There is one quarry of Mr. Saji Vadakkekara (M/s Planters Aggregates) in operation within 500m radius which is accorded with environment clearance for an area of 4.8033 ha which is contiguous with the application area.
25	Cluster condition if any	No cluster condition
26	Has "No cluster certificate" submitted?	Cluster Certificate issued by Department of Mining and Geology, Govt. of Kerala is already submitted with E.C. application.
27	Distance from nearby habitation	Nearest house is at 142 m towards N side of the lease area.
28	Distance from nearby forest, if applicable	Sholayar Reserve Forest, 8.50 km, NE
29	Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
30	Distance from nearby streams /rivers/ National Highway and Roads	Chalakkudy River, 2.50 km, N
31	Is ESA applicable? If so distance from ESA limit	Not in ESA
32	Has approved mining plan, prepared by RQP submitted?	Yes, the approved mining plan prepared by RQP is already submitted along with E.C. Application.
33	Capacity of	1,00,000 MTA

	production in TPA	
34	Details of mining process	The mining will be done by open cast semi-mechanized method of mining. The bench height and width will be maintained 5 m. Excavated material is transported to the crusher unit existing within the complex for further processing. The exploitation of mineral is being done from 115 m to 55m MSL in conceptual phase
I. Details of Project cost		
35	Land cost	Rs. 8 Crores (All inclusive)
36	Plant and Machinery	Rs. 8 Crores (All inclusive)
37	Total Cost	Rs. 8 Crores (All inclusive)
38	V. Financial Statement including funding source and details of insurance etc.	Rs. 8 Crores (All inclusive) Insurance = Insurance to the quarry workers would provide through insurance company. Funding = Own source & bank loan
39	Management Plan	<p>Air Pollution</p> <p>Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> • Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust. • To avoid the dust generation from the drilling operations, wet drilling method will be adopted. • Drill machines will be equipped with dust collectors. • Use of appropriate explosives for blasting and avoiding overcharging of blast holes. • Controlled blasting techniques will be adopted. • Watering of haul road and other road at regular intervals. • Provision of dust filters/ mask to workers working at highly dust prone and affected areas. • Provision of green belt all along the periphery of the lease area. • Periodical monitoring of ambient air quality in and around the lease area.

		<p>The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</p> <ul style="list-style-type: none"> • In case of long transportation the trucks after loading will be covered with tarpaulin sheets. • Speed of the vehicles will be maintained within the prescribed limits. • Trucks will not be over loaded and will be maintained to the body level
	Water Pollution	Provision of storm water collection pond with an appropriate capacity. The water requirement for sprinkling on sources of dust emission, on roads, landscaping etc. Can be met from the stored rainwater in the pond.
	Noise	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are to be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> • Proper maintenance of machinery, equipments and improvement on design of machines. • Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas. • Creation of wide green belt of dense foliage between mine areas and residential colonies. • Proper training to personnel to create awareness about adverse noise level effects. • Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.
	Solid Waste Management	<p>Topsoil Management</p> <p>The topsoil excavated from the quarry will be dumped / stacked separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation as part of eco-restoration. Precautions will be taken to limit the height of the topsoil dump / stacked to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder</p>

		grass and leguminous plants during temporary storage.
		Overburden Management This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.
	Eco-restoration	The year wise programme of eco-restoration for the life of mine will be made and about 2,250 trees will be planted in an area of 2.2427 ha.
40	VI. Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes.
41	VII. Does it suggest mitigation measures for each activity	Detailed Environment Management Plan is already submitted with E.C. Application.
42	VIII. If Pre-Feasibility Report (PFR) satisfactory	Detailed Pre-Feasibility Report (PFR) is already submitted with E.C. Application.
43	IX. Does it need public hearing	Not Applicable
44	X. Details of litigation and Court verdict if any	No litigation pending.
45	XI. Details of public complaint, if any	None
46	XII. Details of statutory sanction required	The following Govt. Orders / Policies are to be followed:- ➤ Consents from Kerala State Pollution Control Board. ➤ Permission from Mining & Geology Department. ➤ Permission from Explosive Department ➤ Permission from Panchayat Office.
47	XIII. If CRZ recommendation applicable?	Not Applicable
PART B		
Environment Impact Assessment and Mitigation Measures		
Impact on water		
48	a) Details of water requirement per day in KLD	The total water requirement is about 15 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary units and 2 KLD for plantation will be sourced from storm water pond.
49	b) Water source	1 KLD for domestic requirement would be sourced from open well, 12

	/sources.	KLD for dust suppression system in mine as well as ancillary units and 2 KLD for plantation will be sourced from storm water pond.
50	c) Expected water use per day in KLD.	1 KLD for domestic requirement, 12 KLD for dust suppression system in mine as well as ancillary units and 2 KLD for plantation
51	d) Details of water requirements met from water harvesting.	12 KLD for dust suppression system in mine as well as ancillary units and 2 KLD for plantation will be sourced from storm water pond.
52	What are the impact of the proposal on the ground water?	No significant impact envisaged on ground water due to the mining project.
53	How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid waste treatment)	Nil
54	What is the incremental pollution load from waste water generated from the proposed activities?	The sewage to a tune of 0.80 KLD generated from the mine office will be diverted to the septic tank followed by soak pit.
55	How is the storm water from within the site managed?	<ul style="list-style-type: none"> ➤ Storm water drains with silt traps will be suitably constructed all along the periphery of the pit area to collect the run-off from the lease area and divert into the storm water pond/tanks proposed within the complex. ➤ All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. ➤ De-siltation traps and storm water collection pond proposed for silt removal. ➤ The storm water collected from the lease area will be utilized for dust suppression on haul roads, plantation within the premises etc.
Impact on Biodiversity and Eco restoration Programmes		
56	Will the project involve extensive clearing or modification	Due to the mining activities, there will be loss of some native species and vegetation. However, some of these species will be planted at the end use for eco-restoration.

	of vegetation (Provide details)	
57	What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	The year wise programme of eco-restoration for the life of mine will be made and 2,250 trees will be planted in an area of 2.2427 ha. Ecological restoration for the mined area by plantation of the species as per the time schedule suggested below: - First Six months -- Herbs & grass Next Six months -- Shrubs Next Six months onwards -- Trees Selection of species is based on High Dust Capturing, Soil Holding Capacity, ground water recharge capacity etc. More focus is given for medicinal plants.
58	Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures? Presence of any endangered species or red listed category (in detail)	Not applicable No endangered species found at site
Impact on Air Environment		
59	What are the mitigation measures on generation of dust, smoke and air quality	Details already provided at EMP section at Sr. No. 39 above.
60	Details of internal traffic management of the site.	Designated space will be provided for parking of truck / tipper within the site. For the purposes of mining activities, existing roads are sufficient. However, haul road will be suitably developed within the proposed area. Speed of the vehicles will be maintained within the prescribed limits (Speed Governor fitted).
61	Details of noise from traffic, machines and vibrator and mitigation measures	Details already provided at EMP section at Sr. No. 39 above.

62	Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures	Details provided at EMP section at Sr. No. 39 above and air, noise and water sampling reports were already submitted with EC Application.
63	Air quality monitoring in detail	Details provided at EMP section at Sr. No. 39 above and air, noise and water sampling reports were already submitted with EC Application.
Energy Conservation		
64	Details of power requirement and source of supply.	The total power requirement will be 75 kW, which will be drawn from diesel engine. Fuel Quantity – 16 to 20 lt/hr.
65	Details of renewable energy (non – conventional) used.	We will promote renewable energy resources
Risk Management		
66	Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	Detailed Environment Management Plan is already submitted with E.C. Application.
67	Are proposals for fencing around the quarry satisfactory? Storage of explosives / hazardous substance in detail Facility for solid waste management	Barbed wire fencing will be done all around the quarry site. The stone quarry mine will result in increase in frequency of blasting for mining the mineral. However, controlled blasting with optimum charge of holes will be carried out to loosen the rock. Explosion hazards are envisaged due to mishandling of explosives. Explosives will be handled with utmost care in compliance of conditions imposed by Chief Controller of Explosive & Metalliferous Mines Regulation, 1961. Top soil and over burden generated from the site will be stored separately on earmarked place and will be used for eco-restoration and internal road development.
Socio Economic Impacts		
68	Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	No
69	Will the proposal	The mining project will directly / indirectly develop the area by

	result in any changes to the demographic structure of local population. If so, provide details.	providing employment opportunities. With the proposed development in and around the area there will be many supporting facilities/ infrastructure eventually leading to the development of the area.
70	Are the CSR proposals satisfactory. Give details	Yes. A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out and the copy of report was submitted with EC Application. The project proponent will set apart Rs. 10 Lakhs (non-recurring) and Rs. 10 Lakhs (recurring) for CSR activities for the welfare of the local community in consultation with the local body.
71	What are the projects benefits in terms of employment potential?	Due to the mining activity and due to the attached ancillary unit, there will be workers attracted to the project area. It is proposed to employ 22 persons in the project.
PART C		
72	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	M/s Environmental Engineers & Consultants Pvt. Ltd. (NABET Accredited Consultant Organization) <i>Head Office :-</i> A1-198, Janak Puri, New Delhi. <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.
Summary and Conclusion		
73	Overall justification for implementation of the project.	It is predicted that socio-economic impact due to this project will positively increase the chance of more employment opportunities for local inhabitants. There are no Resettlement and Rehabilitation issues involved in this project. The project infrastructures will be of use to people of the area. The revenue of the State Govt. will be definitely increasing due to the proposed activity. The entire project area is devoid of any endangered flora and fauna. It is proposed to reclaim the land and develop green cover for eco-restoration with native species to a maximum possible extent. Additionally, an area is earmarked outside the proposed mining area for compensatory mass plantation. Also, a storm water pond is proposed outside the mining area for storage of rain water and for its subsequent use so as to conserve fresh water consumption. Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely.
74	Explanation of how adverse impact have been mitigated.	Detailed Pre-Feasibility Report (PFR) with Environment Management Plan (EMP) is already submitted with E.C. Application.

2. The proposal was placed in the 69th meeting of SEAC held on 9th & 10th March 2017. Further to the intimation the Proponent and the RQP attended the meeting and RQP made a power point presentation about the salient features of the project. The Committee appraised the proposal based on the Mining Plan, Pre-feasibility Report and all other documents submitted along with Form 1. The proponent agreed to set apart Rs.10 lakh (non-recurring) and Rs.10 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local Panchayat. The Committee decided to defer the item for field inspection. During Field visit, whether the conditions stipulated in the E.C given for the adjoining quarry of the proponent have been adhered to has to be examined closely.

Subsequently, site visit was conducted on 08.04.2017 by Subcommittee consisting of Er.P.Sreekumaran Nair, Dr.K.G.Padmakumar & Dr.E.A.Jayson. The representatives of the proponent were present at the site at the time of site visit. The report is as follows;

Mr. Saji Vadakkekara (Proprietor), M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577, vide his application received online 19/12/2015 and, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 168, Karukutty Village & Karukutty Grama Panchayat and Re-Survey No. 168, Karukutty Village & Karukutty Grama Panchayat, Alwaye Taluk, Ernakulam District, Kerala State for an area of 4.1885 hectares. The proposed project site falls within Latitude 10°16'27.60" to 10°16'35.21" N to Longitude 76°24'59.17" to 76°25'08.73" E. The lease area consists of 4.1885 hectares, which is private own land. The proposed project is for quarrying of 1,00,000 MT of building stone.

Distance of the mining area from the nearest human settlement is recorded as 142m towards N side. The project area does not fall into any ESA village. Sholayar R.F. - is at 8.5 Km. NE. Nearest river is Chalakkudy River, at 2.50 km, North. There is one quarry in operation located within 500m radius. The run-off from the lease area shall have to be passed through channels and will be stored in storm water pond which could be recycled in Mine/ Crusher units, run as ancillary unit by the proponent.

The haul road and service roads has been laid dust free, Display boards placed commendably well and the whole premises has been kept clean and this is a well-managed quarry. The committee was impressed with cleanliness and the green belt around, and even sports court and recreation facility has been provided for the use of employees and workers. A quarry of the same management is working adjacently with environmental clearance. This quarry is now functioning with benches and the overburden is also stored in the designated places.

3. The proposal was considered in the 73rd meeting of SEAC held on 30th and 31st May 2017. The Committee verified the additional documents submitted by the proponent and found satisfactory. Based on the Mining plan, Form 1, all other documents submitted with the proposal and the field visit report, the committee decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.

1. *If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the*

lease area.

The proponent agreed to set apart Rs. 10 lakh (non-recurring) and Rs. 10 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local body.

4. The proposal was placed in the 71st meeting of SEIAA held on 20.07.2017. Authority accepted the recommendation of SEAC and decided to issue EC subject to obtaining legal opinion as decided in the 66th SEIAA meeting whether quarrying on lease areas without Environmental Clearance would also come under the scope of violation.

EC is recommended subject to the general condition in addition to the following specific condition.

If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.

The proponent should set apart an amount of Rs. 10 lakh (non-recurring) and Rs. 10 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local body. A notarised affidavit for the commitment of CSR activities and agreeing all the general and specific conditions should be submitted before the issuance of EC.

5. Then the proponent vide letter dt.15.09.2017 stated that though there is a mine lease for the area under consideration, there is no mining activity in progress in the area and therefore there is no violation of the provisions of law. The Sub Committee report states that the Mining activity is in progress in the adjoining land to the area under consideration which is already obtained Environmental Clearance. Since no mining activity is carried out in the proposed area the proponent requested to accord EC for the project.

6. The proposal was placed in the 74th meeting of SEIAA held on 09th October 2017. Authority decided to conduct a site visit to verify the present status of the project.

Accordingly the Chairman and the Member SEIAA conducted the site visit on 25.10.2017 to M/s Planters Aggregates, owned by Mr.Saji Vadakkekara (Proprietor), Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577, as per the decision of 74th SEIAA to verify the present status of the project. The Administrator, SEIAA was also present. The project is fresh one and no quarrying operations are carried out at the project site.

7. The proposal was finally placed in the 76th meeting of SEIAA held on 16th November 2017. Authority accepted the recommendation of SEAC and decided to issue EC subject to the general condition in addition to the following specific condition.

- 1) *The mandatory distance between the existing and the proposed quarry should be maintained.*
- 2) *If any plant species endemic to Western Ghats are noticed in the area they shall be properly protected in situ or by transplanting to an appropriate location inside the lease area.*

The proponent should set apart Rs. 10 lakh (non-recurring) and Rs. 10 lakh per annum (recurring) for CSR activities for the welfare of the local community in consultation with the local body and the details should be forwarded to SEIAA. A notarised affidavit for the commitment of CSR activities and also agreeing to all the general and specific conditions should be submitted before the issuance of EC. The proponent has submitted the affidavit vide reference 7th cited agreeing all the above conditions.

8. Environmental Clearance as per the EIA Notification 2006 is hereby accorded for the proposed quarry project of Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577, in Survey No. 168, Karukutty Village, Karukutty Grama Panchayat, Alwaye Taluk, Ernakulam District, Kerala for an area of 4.1885 hectares, subject to the specific conditions as in para 7 above, all the environmental impact mitigation and management measures undertaken by the project proponent in the Form I, EMP, PFR and Mining plan submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 61), appended hereto will be applicable and have to be strictly adhered to.

9. The Clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The undertakings and conditions subject to all the mining features, Environmental Management Plans as undertaken in the Mining Plan and EMP submitted to SEIAA will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

10. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

11. Compliance of the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

- i. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or

monitoring.

- ii. Instances of violation if any shall be reported to the District Collector, Ernakulam.
- iii. The given address for correspondence with the authorised signatory of the project is Sri. Saji Vadakkekara (Proprietor), M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683 577.

Sd/-
P.H.KURIAN I.A.S,
Member Secretary (SEIAA)

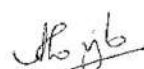
To,

Sri. Saji Vadakkekara (Proprietor),
M/s Planters Aggregates, Palissery,
Ezhattumugham P.O., Angamaly,
Ernakulam, Kerala-683 577

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. District Collector, Ernakulam
4. Director, Mining & Geology, Thiruvananthapuram -4.
5. The Member Secretary, Kerala State Pollution Control Board
6. District Geologist, Ernakulam
7. Tahsildhar, Alwaye Taluk, Ernakulam
8. Chairman, SEIAA.
9. Website.
10. S/f
11. O/c

Forwarded/By Order


Administrator, SEIAA

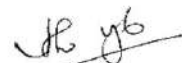
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

1. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. 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 E.C.
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.
9. The lease area shall be fenced off with barbed wires to a minimum 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.
10. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/ control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan / specific conditions.
17. Height of benches should not exceed 5 m, and width should not be less than 5 m, if there is no mention in the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m.
20. No mining operations should be carried out at places having a slope greater than 45°.
21. Acoustic enclosures should have been 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.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.
25. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.
29. 100 m buffer distance should be maintained from forest boundaries.

30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.
31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
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 E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponents shall apply and get the approval of this Authority.
33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
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.
35. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the 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 State Environment Impact Assessment Authority (SEIAA) office 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 a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
36. A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ 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.
37. The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.
38. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft 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
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.
40. No change in mining technology and scope of working should be made without prior approval of the SEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.
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.
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 unloading points & transfer point to reduce fugitive emissions.
43. The top soil, if any, shall 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 stacked 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 dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.

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 desilted particularly after monsoon and maintained properly.
45. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM₁₀ and PM_{2.5} such as haul Road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
49. The funds earmarked for environmental protection measures and CSR activate 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.
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.
51. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
52. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
53. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation 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.
54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government 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 table and it should not intersect ground water table.
58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
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.



For Member Secretary, SEIAA Kerala

Copy of Environmental Clearance Order

Annexure No. 6

अनुज्ञप्ति प्रारूप 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 1 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 रखें
Licence to possess : (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञप्ति सं. (Licence No.) : E/SC/KL/22/751(E33224)
वार्षिक फीस रूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to
Saji Vadakkaekara (अधिभोगी / Occupier : Saji Vadakkaekara), Vadakkekara House, Mangattoor, Kolcherry, Ernakulam, Town/Village - , District-, State-, Pincode - 682311

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : Individual

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमानी है।
Licence is valid only for the following purpose.
possess for use of Safety Fuse, Ordinary Detonator, Nitrate Mixture, Electric Detonators, - के उपयोग के लिए

4. अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमानी 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	150 Kg.
2.	Electric Detonators	6,3	0	2500 Nos.
3.	Safety Fuse	6,1	0	2500 Mtrs
4.	Ordinary Detonator	6,3	0	2500 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए]
(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (g)]: 20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s):
रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/751(E33224)
दिनांक (Dated) 27/12/2005

6. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
Survey No(s). 168, ग्राम (Town/Village) : Karukutty
जिला (District) ERNAKULAM राज्य (State) Kerala पुलिस थाना (Police Station) : Karukutty
दूरभाष (Phone) ई. मेल (E-Mail) पिनकोड (Pincode) फैक्स (Fax)

7. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएं अंतर्निहित हैं।
The licensed premises consist of following facilities.
T and G type portable magazine and D type portable magazine

8. अनुज्ञप्ति 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 अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्रारूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2007 तक विधिमानी रहेगी। This licence shall remain valid till 31st day of March 2007.

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपबर्णित इस अनुज्ञप्ति की शर्तों का अधिकरण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिबंधित 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.

Sd/-
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

तारीख | The Date - 27/12/2005



Amendments :
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/01/2011
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 30/06/2011
• Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/02/2013

नवीनीकरण के पृष्ठानक 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
14/03/2016	31/03/2021	<p>Di. Chief Controller of Explosives, Ernakulam</p> <p>कुंते लक्ष्मी मुख्या विस्फोटक नियंत्रक For Deputy Chief Controller of Explosives</p> <p>एरनाकुलम Ernakulam</p>

Copy of Explosive license

Annexure No. 7

																
നമ്പർ: 3/2019-2020/B3/B3-696/19	തീയതി: 01-04-19															
കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത് കറുകുറ്റി പി.ഒ., എറണാകുളം (ജില്ല) ഫോൺ: 683576, ഫോൺ: 0484-2612231, ഇ-മെയിൽ: karukuttygp@gmail.com																
<p>വ്യവസായം, വാണിജ്യം, സംരംഭകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ്</p> <p>(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)</p>																
ലൈസൻസിയുടെ പേര്	സജി വടക്കേക്കര															
ലൈസൻസിയുടെ മേൽവിലാസം	വടക്കേക്കര വീട്, മങ്ങാട്ടൂർ-കോലഞ്ചാരി പി ഒ, പാലിശ്ശേരി.															
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	പ്ലാന്റേഴ്സ് അഗ്രിഗേറ്റ്സ് ക്വാറി															
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ഗ്രാനൈറ്റ്സ്, ബിൽഡിങ്ങ് സ്റ്റോൺ എന്നിവ ഖനനം ചെയ്യുന്നതിന്.															
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	VIII/8															
ലൈസൻസ് കാലാവധി	01-04-19 21-12-22															
ലൈസൻസ് ഫീസ്	<table border="1"> <tr> <th>തുക</th> <th>രസീത് നമ്പർ</th> <th>തീയതി</th> </tr> <tr> <td>4000*5= 20,000/-</td> <td>104694</td> <td>07-02-19</td> </tr> <tr> <td></td> <td>104694</td> <td>07-02-19</td> </tr> <tr> <td>മോട്ടോർ ഫീസ്</td> <td></td> <td></td> </tr> <tr> <td>തൊഴിൽ നികുതി</td> <td>2500</td> <td>104696 07-02-19</td> </tr> </table>	തുക	രസീത് നമ്പർ	തീയതി	4000*5= 20,000/-	104694	07-02-19		104694	07-02-19	മോട്ടോർ ഫീസ്			തൊഴിൽ നികുതി	2500	104696 07-02-19
തുക	രസീത് നമ്പർ	തീയതി														
4000*5= 20,000/-	104694	07-02-19														
	104694	07-02-19														
മോട്ടോർ ഫീസ്																
തൊഴിൽ നികുതി	2500	104696 07-02-19														
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം)	1. പാരിസ്ഥിതി സാക്ഷ്യപത്രം, ക്വാറിയിൽ ലിസ്റ്റ്, ബ്ലാസ്റ്റ് മാൻ 2. പി സി ബി സാക്ഷ്യപത്രം, എക്സ്‌പ്ലോസ്സീവ് ലൈസൻസ്. 3. 2023 - 2024 വരെയുള്ള 5 വർഷത്തെ ലൈസൻസ് ഫീസ് ഒറ്റ തവണയായി ഒടുക്കിയിരിക്കുന്നു. ലൈസൻസ് കാലാവധി എൻ ഒ സി കളിൽ പരാമർശിക്കുന്ന തയ്ക്കിക്ക് റിദ്യായമായി അവസാനിക്കുന്നതാണ്.															
	സെക്രട്ടറി കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത് SECRETARY KARUKUTTY GRAMA PANCHAYAT PH: 0484-2612231(0)															

License from Gram Panchayat

Annexure No. 8

No. 10951/M3/2018

Directorate of Mining & Geology
 Kesavadasapuram, Pattam Palace .P.O.,
 Thiruvananthapuram - 4
 Tel Fax : 0471 2447429
 e-mail: director_dir_dmg@kerala.gov.in
www.dmg.kerala.gov.in
 Date : 19-02-2019

From
 The Director of Mining & Geology

To
 ✓ Shri. Saji Vadakkekara,
 S/o. V. P. Varghese,
 Vadakkekara House, Mangattoor,
 Kolenchery. P. O, Ernakulam District – 682 311

Sir,

Sub:- Mines and Minerals – Minor Mineral – Granite (Building Stone) – Application for quarrying lease under KMMC Rules 2015 – Letter of Intent - forwarding of- reg.

Ref:- 1. Your application for quarrying lease dated. 21.04.2018.
 2. Letter No. DOE/1088/E2/18 dtd. 26/09/2018 of the Geologist, District Office, Ernakulam.
 3. Kerala Minor Mineral Concession Rules 2015.

Please refer to the references cited above . As per the reference 1st cited, you have applied for a quarrying lease for a period of 12 years from this office for the extraction of granite building stone from an area of 4.1885 Hectares in Re - Survey Block No. 1, Re – Survey No. 168 of Karukutty Village of Aluva Taluk of Ernakulam District [as shown in the Survey Map No. C1. 1908/18 issued by Tahsildar, Aluva enclosed]. Vide reference cited 2 above, District Geologist, Ernakulam forwarded your application to this office with recommendations to issue Letter of Intent. On scrutiny of application and other documents received from the Geologist, it is seen that a quarrying lease can be granted to the precise area shown in the map under the provisions contained in the KMMC Rules 2015. However, for granting quarrying lease you have to produce following documents through District Geologist to the satisfaction of this office in accordance with the relevant statutes.

DOCUMENTS TO BE PRODUCED

1. Mining plan approved by the District Geologist as stipulated in the KMMC Rules 2015, for the precise area as per the survey map.
2. Environmental Clearance as stipulated in EIA Notification 2006 for the precise area.
3. Consent to operate quarry from the Kerala State Pollution Control Board for the precise area.
4. Explosive licence from the authorities concerned for appropriate quantity of explosives required for extraction of mineral from the precise area as mentioned in the approved mining plan.

dy

5. D & O Licence from the Local Self Government authorities concerned for operating quarry in the precise area.

In addition, you shall make arrangements for the survey and demarcation by erection of boundary pillars of the said area by the revenue authority not below the rank of a Tahsildar or Asst. Director of the Department of Survey and Land Records and shall produce a certificate in this regard issued by authorities concerned.

It is further informed that the duration of lease as well as annual production of mineral will be decided based on the approved mining plan and documents submitted.

It is also informed that as per the provisions contained in the KMMC Rules 2015 this letter of intent shall be sufficient for the purpose of issuing necessary licenses/consents/Clearances/NOCs etc. by the other statutory authorities concerned. In the event of granting of quarrying lease you may also need to produce new Possession & Enjoyment Certificate at the time of grant of quarrying lease.

It is further informed that this letter of intent is valid for a period of one year from the date of issue. In case you have any valid reason for seeking extension of period of this LOI, the same may be obtained before the expiry of this LOI. Your application for Quarrying Lease shall deemed to have been rejected, if you fail to produce above mentioned documents before the expiry of LOI.

Yours faithfully,

[Signature]
19/02/2019

ADDITIONAL DIRECTOR OF MINING & GEOLOGY

Encl: Photocopy of Survey Map showing precise area

Copy to:-

1. The Member Secretary, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram.
2. The Chairman, SEIAA, Thampanoor Bus Terminal, Thiruvananthapuram.
3. The Deputy Chief Controller of Explosives, CSEZ, CGO Complex, Kakkanad, Ernakulam
4. Kerala State Pollution Control Board, District Office, Ernakulam District.
5. The Secretary, Karukutty Grama Panchayath, Ernakulam District
6. The Tahsildar, Aluva Taluk Office, Ernakulam District.

For kind attention of statutory authorities

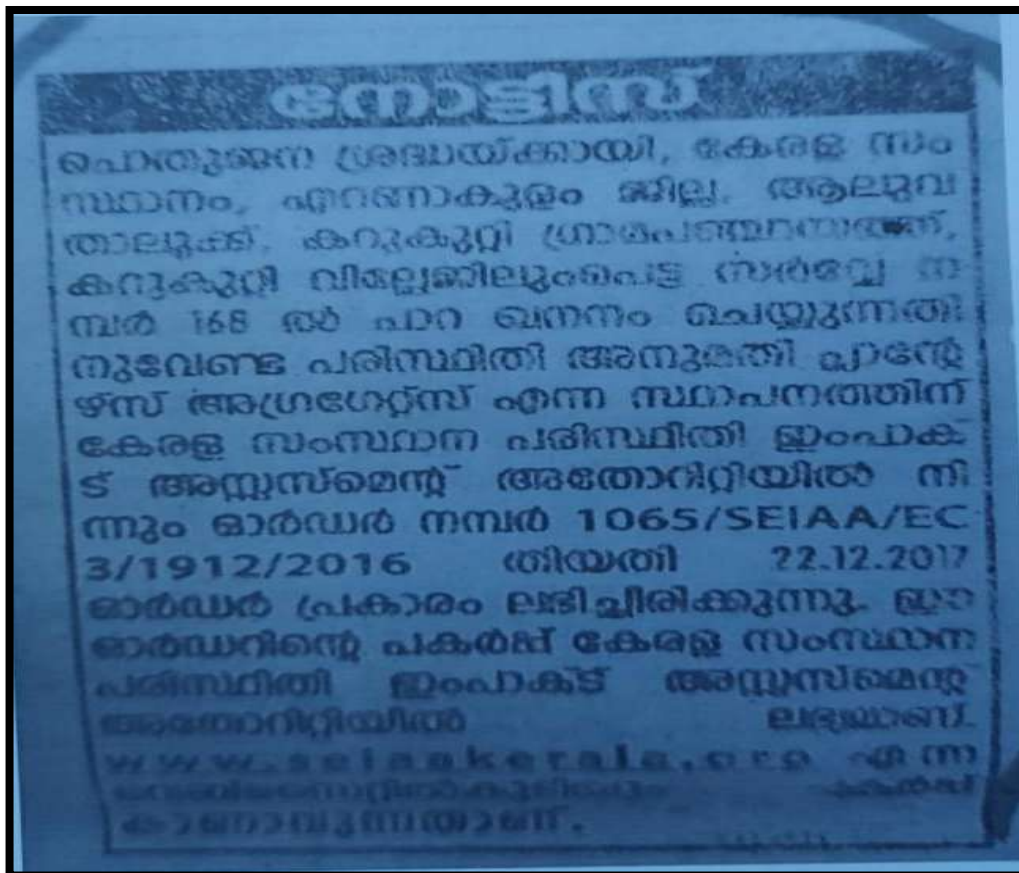
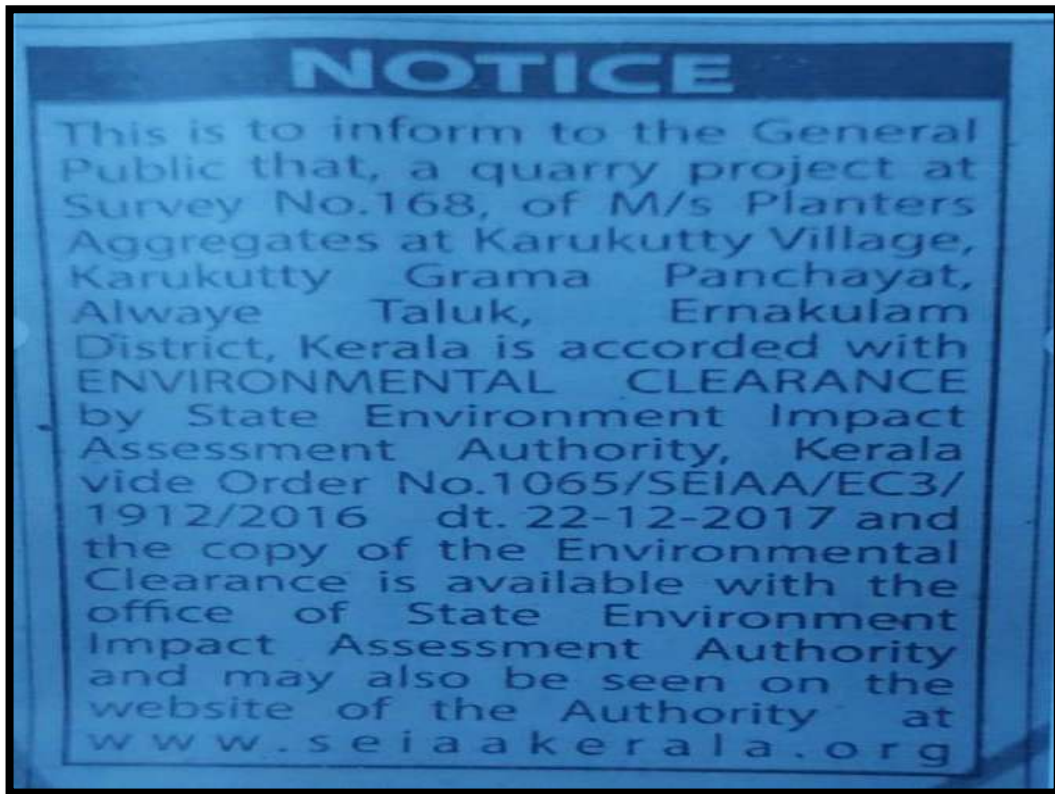
[The statutory authorities while issuing licence/consents/NOCs based on this letter of intent may refer this letter of intent in the respective licence/consent/ clearance /NOC while issuing the same. The statutory authorities may refer the survey map and consider the extent of applied area, quantity of mineral proposed to extract and the period of lease applied for while issuing such documents. The authorities may note that the operation as per their licence shall start only after execution and registration of quarrying lease granted by this office. All the Survey Nos./Re-Survey numbers with Block No. included in the survey map submitted in this connection shall be included in all the aforesaid documents.]

7. The Geologist, District Office, Ernakulam (The Geologist shall forward all the above said documents to this office for grant of quarrying lease with recommendations).



Lease order

Annexure No.9



Newspaper Advertisement

Annexure No.10

Standard^S
Environmental Monitoring

**TEST REPORT**

ULR No: TC540221000004004F	Date: 28-07-2021	Page 1 of 1
----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt : 22-07-2021

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN21070083
Sample Name	Ambient Noise	Monitoring Commenced on	22-07-2021 / 06:00
Monitoring Location	South side boundary	Monitoring Completed on	23-07-2021 / 06:00
Test Method	IS 9989:1981 RA:2008	Latitude	---
Monitored by	Mr. Rahul E J Lab Authorized Sampler	Longitude	---

SAMPLING SITE DETAILS			
Re-Survey No.	168, Block - 1		
Village	Karukutty	Taluk	Aluva
District	Ernakulam	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.7	14:00	50.6	22:00	36.6
07:00	40.5	15:00	51.0	23:00	34.6
08:00	44.7	16:00	52.1	24:00	37.1
09:00	48.2	17:00	52.5	01:00	37.8
10:00	50.6	18:00	47.1	02:00	37.5
11:00	53.7	19:00	43.6	03:00	38.2
12:00	51.0	20:00	39.7	04:00	37.1
13:00	50.2	21:00	39.2	05:00	38.9

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.1
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	37.4

Remarks:

End of Report

Diya
J. Joseph
Technical Manager
Checked by:



Ammy
Ajay F. N.
Laboratory Head
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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

Result of noise

ANNEXURE No.11

Standard^S
Environmental Monitoring
**TEST REPORT**

ULR No: TC540221000004003F	Date: 28-07-2021	Page 1 of 1
----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt : 22-07-2021

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN21070082
Sample Name	Ambient Air	Sample Received on	23-07-2021
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	24-07-2021
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	27-07-2021

DETAILS OF SAMPLING			
Sampling Location	East Side Boundary	Date of Sampling	22-07-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	69%
Location Coordinates	---	Temperature	31°C

SAMPLING SITE DETAILS			
Survey No.	168, Block - 1		
Village	Karukutty	Taluk	Aluva
District	Ernakulam	State	Kerala

TEST RESULTS - CHEMICAL PARAMETERS					
Sl. No	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARDS
1	Particulate matter (PM ₁₀)	IS 5182 Part 23: 2006 RA 2017	µg/m ³	49.6	100 (Max)
2	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L	µg/m ³	20.5	60.0 (Max)
3	Sulphur dioxide (SO ₂)	IS 5182 Part 2: 2001 RA 2017	µg/m ³	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: 2006 RA 2017	µg/m ³	< 2.00	80.0 (Max)

Remarks:

End of Report

Deja
 ja Joseph
 ical Manager
 Checked by:



Laiju P.N.
 Laiju P.N.
 Laboratory Head
 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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

Result of ambient air

ANNEXURE No.12

Standard^S
Environmental Monitoring

**TEST REPORT**

ULR No: TC540221000004006F	Date: 28-07-2021	Page 1 of 3
----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt : 22-07-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21070176
Sample Name	Quarry Water	Sample Received on	23-07-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	24-07-2021
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	28-07-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source/Location	Inside the quarry	Date of Sampling	22-07-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	32 °C
Latitude	---	Longitude	---

SAMPLING SITE DETAILS			
Re-Survey No.	168, Block - 1		
Village	Karukutty	Taluk	Aluva
District	Ernakulam	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
1	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
2	Odour	IS 3025 Part 5: 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.40	1.00 (Max)

ency Joy
TM Chemical

Checked by:

Salini T. S.
Microbiologist

Authorized Signatory

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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

Standard^S
Environmental Monitoring



TEST REPORT

ULR No: TC540221000004006F	Date: 28-07-2021	Page 2 of 3
----------------------------	------------------	-------------

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.92	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	148	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	96.0	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2019	mg/L	50.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	9.60	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	6.33	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	11.9	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2019	mg/L	34.2	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.18	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	3.10	200 (Max)
14	Fluoride as F	IS 3025 Part 60: 2008 RA 2019	mg/L	<0.10	Max 1.0
15	Arsenic as As	APHA 23 rd Edition 3111C:2017	mg/L	BDL (LOD-0.001)	Max 0.01
16	Copper as Cu	IS 3025 Part 42: 1992 RA 2019	mg/L	BDL (LOD-0.016)	Max 0.05
17	Manganese as Mn	IS 3025 Part 59: 2006 RA 2017	mg/L	BDL (LOD-0.016)	Max 0.1
18	Cadmium as Cd	IS 3025 Part 41: 1992 RA 2019	mg/L	BDL (LOD-0.003)	Max 0.003
19	Chromium as Cr	IS 3025 Part 52: 2003 RA 2019	mg/L	BDL (LOD-0.05)	Max 0.05
20	Zinc as Zn	APHA 23 rd Edition 3111B:2017	mg/L	BDL (LOD-0.008)	Max 5.0
21	Mercury as Hg	IS 3025 Part 48: 1994 RA 2019	mg/L	BDL (LOD-0.001)	Max 0.001
22	Lead as Pb	IS 3025 Part 47: 1994 RA 2019	mg/L	BDL (LOD-0.01)	Max 0.01
23	Aluminium as Al	APHA 23 rd Edition 3111D:2017	mg/L	BDL (LOD-0.03)	Max 0.03

[Signature]
Shency Joy
y. TM Chemical
Checked by:

[Signature]
Selini T. S,
Microbiologist
Authorized Signatory

[Signature]
Saiju P. N.
Laboratory Head
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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

**TEST REPORT**

ULR No: TC540221000004006F	Date: 28-07-2021	Page 3 of 3
----------------------------	------------------	-------------

TEST RESULTS - BIOLOGICAL					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
24	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
25	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Henry Joy
 Henry Joy
 Jy. TM Chemical
 Checked by:

Salini T. S.
 Salini T. S.
 Microbiologist
 Authorized Signatory

Laiju P. N.
 Laiju P. N.
 Laboratory Head
 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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

Result of Quarry water

**TEST REPORT**

ULR No: TC540221000004005F	Date: 28-07-2021	Page 1 of 3
----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt : 22-07-2021

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT21070175
Sample Name	Bore Well	Sample Received on	23-07-2021
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	24-07-2021
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	28-07-2021
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source/Location	Bore Well	Date of Sampling	22-07-2021
Sampling Procedure	SEAAL/ENL/GEN/SOP/01 & SEAAL/MBL/SOP/06	Sample Temperature	32 °C
Latitude	---	Longitude	---

SAMPLING SITE DETAILS			
Re-Survey No.	168, Block - 1		
Village	Karukutty	Taluk	Aluva
District	Ernakulam	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
1	Colour	IS 3025 Part 4:1983 RA 2017	Hazen	1.00	5.00 (Max)
2	Odour	IS 3025 Part 5: 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.70	1.00 (Max)

Shancy Joy

Checked by:

Selini T. S.
Microbiologist
Authorized Signatory

Laboratory Head
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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

**TEST REPORT**

ULR No: TC540221000004005F Date: 28-07-2021 Page 2 of 3

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
04	pH	IS 3025 Part 11:1983 RA 2017	---	6.71	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	223	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	144	500 (Max)
07	Total Hardness (as CaCO ₃)	IS 3025 Part 21:2009 RA 2019	mg/L	62.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	17.6	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	4.38	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	44.5	250 (Max)
11	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23:1986 RA 2019	mg/L	32.2	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.36	1.00 (Max)
13	Sulphate (SO ₄)	IS 3025 Part 24:1986 RA 2019	mg/L	8.14	200 (Max)
14	Fluoride as F	IS 3025 Part 60: 2008 RA 2019	mg/L	<0.10	Max 1.0
15	Arsenic as As	APHA 23 rd Edition 3111C:2017	mg/L	BDL (LOD-0.001)	Max 0.01
16	Copper as Cu	IS 3025 Part 42: 1992 RA 2019	mg/L	BDL (LOD-0.016)	Max 0.05
17	Manganese as Mn	IS 3025 Part 59: 2006 RA 2017	mg/L	BDL (LOD-0.016)	Max 0.1
18	Cadmium as Cd	IS 3025 Part 41: 1992 RA 2019	mg/L	BDL (LOD-0.003)	Max 0.003
19	Chromium as Cr	IS 3025 Part 52: 2003 RA 2019	mg/L	BDL (LOD-0.05)	Max 0.05
20	Zinc as Zn	APHA 23 rd Edition 3111B:2017	mg/L	BDL (LOD-0.008)	Max 5.0
21	Mercury as Hg	IS 3025 Part 48: 1994 RA 2019	mg/L	BDL (LOD-0.001)	Max 0.001
22	Lead as Pb	IS 3025 Part 47: 1994 RA 2019	mg/L	BDL (LOD-0.01)	Max 0.01
23	Aluminium as Al	APHA 23 rd Edition 3111D:2017	mg/L	BDL (LOD-0.03)	Max 0.03

By TM Chemical
 Checked by:

Salini T. S.
 Microbiologist
 Authorized Signatory

Baiju P. N.
 Laboratory Head
 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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 Certificate No. TC-5402 & "A" Grade Laboratory approved by KSPCB

**TEST REPORT**

ULR No: TC540221000004005F	Date: 28-07-2021	Page 3 of 3
----------------------------	------------------	-------------

TEST RESULTS - BIOLOGICAL					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	REQUIREMENT AS PER ACCEPTABLE LIMIT OF IS 10500 : 2012
24	Total Coliform Bacteria	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml
25	E coli	IS 15185 : 2016	---	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Checked by:

Authorized Signatory

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 & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017

vide Certificate No. TC - 5402 & "A" Grade Laboratory approved by 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

Result of Bore well

Annexure No. 13

HYCR- Planters Quarry project - Kerala - October 2020 to march 2021 -... <https://mail.google.com/mail/u/2/#sent/KtbxLwglmPQhjPCmTdrqgPx...>



Compose

Inbox 591

Starred

Snoozed

Sent

Drafts 71

Meet

New meeting

Join a meeting

Hangouts

P Z Thomas

No recent chats

Start a new one

Insert

13 of 187

HYCR- Planters Quarry project - Kerala - October 2020 to march 2021

P Z Thomas EEC <ecccocchin@gmail.com>
to ros.z.bng-mefcc, selaa, plantersgroup 10:47 AM (2 hours ago)

Respected sir,

SUB:- Half Yearly Compliance Report for the period of October 2020 to March 2021 for the quarry project PLANTERS AGGREGATES, Ernakulam District, Kerala.

Ref:- EC No. 1065/SEIAA/EC3/1912/2016 Dated: 22.12.2017

Attached herewith is the half yearly compliance Report for the above mentioned quarry project. Kindly acknowl receipt of the same.

If you need any further clarification/documentation with regard to the compliance report, please contact the Manager Mr. Davis 9605040050, E mail Id:- plantersgroup@yahoo.com or the undersigned Mr. Jomon M C94477; E mail Id:- ecccocchin@gmail.com


We forwarding this compliance report on behalf of the project Proponent

1 of 1

12-05-2021, 01:25 pm

Proof of compliance report submitted

Annexure No. 14



കേരളം KERALA **AFFIDAVIT** **E 248354**

I, Saji Vadakkekara aged 47 years, S/O V.P.Varghese., proprietor and Authorized Signatory of M/s Planters Aggregates having its correspondence office at Palissery, Ezhattumugham, PO, Ankamaly, Ernakulam, Kerala, 683577 PIN do hereby affirm and confirm as follows:-

1. That, M/s Planters Aggregates propose to develop a Quarry Project at Survey No. 168, Karukutty Village, Karukutty Panchayat, Alwaye Taluk, Ernakulam District, Kerala.
2. That, we will constitute an Environment Monitoring Cell for our project.
3. That, we will provide systems to minimize dust emissions.
4. That, we will provide adequate safety measures for the quarry workers during the mining operation.
5. That, we will upload the following in our web site.
 - a. EC Order
 - b. Status of compliance of the stipulated EC conditions.
 - c. Results of monitoring data and update the same periodically.
 - d. Send the copy of the EC to the LSG concerned

DEPONENT

Verification:

Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein.

DEPONENT

Place: Kolenchery
Date: 17/12/2015

No. 22849 Date 17.12.15

Sold to: M. S. Vadakkekara

S. S. Vadakkekara

S. S. Vadakkekara

P.C. Nirmala, Stamp Vendor, Puthencruz

NOTARY
KUMARI JAYA.
Reg. No. 106 / 97 / EKM.
KOLENCHERY - 682 311
KERALA - INDIA

Solemnly affirmed and signed before me by the Deponent/ executant at my office of Kolenchery on this the 17th day of December 2015.

27.11.15
KOLENCHERY

Affidavit


Annexure No. 15

Form 59
[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of Kerala

Date : 17/08/2021
Time : 10:17:38 AM
Validity upto : 16/02/2022



Certificate SL. No. : KL06300070004441
Registration No. : KL41C8060
Date of Registration : 25/Mar/2010
Month & Year of Manufacturing : February-2010
Valid Mobile Number : *****6485
Emission Norms : BHARAT STAGE III
Fuel : DIESEL
Code : KL0630007
IN :
ees : Rs.110.0(GST as applicable)
MIL observation : No

Vehicle Photo with Registration plate
60 mm x 30 mm

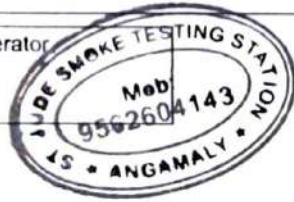


Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
ng Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
	CO	percentage (%)		
High Idling emissions	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.32

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to <https://vahan.parivahan.gov.in>

Authorised Signature with stamp of PUC operator
(Optional for State)
60mm x 20 mm



POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: **ANGAMALI SRTO**
Motor Vehicles Department, Kerala



TEST RESULT : PASS
VALID TILL: 11/Jan/2022

Certificate St. No.: **KL06300050003379**
 Registration No.: **KL63D0926**
 Chassis No.: **MEC2412BCGP0*******
 Engine No.: **400951D00*******
 Class of Vehicle: **Goods Carrier**
 Make: **DAIMLER INDIA COMMERCIAL**
 Model: **VEHICLES PVT. LTD**
 Model: **SHARATBENZ 2528C**
 Vehicle Category: **HEAVY GOODS VEHICLE**
 Date of Registration: **18/Mar/2016**
 Emission Norms: **SHARAT STAGE III**
 Fuel: **DIESEL**
 Date of Testing: **12/Jul/2021**

DIESEL DRIVEN VEHICLES
 Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	2.45	0.38634



Time of Testing: **09:18:04**
 Fee Charged: **Rs.150.0**
 (one hundred fifty rupees only)

In case of any Complaint Please write to The Transport Commissioner Kerala


Auto Emission Testing Centre Code: **KL0630005**
 Testing Centre Name: **Hi-TECH POLLUTION TESTING CENTRE**
 Centre Address: **IX/17B VENGOOR, KIDANGOOR, ANGAMALY, 683572**
 Test Conducted By: **JOSEPH P A**

**TEST RESULT FOR DIESEL VEHICLE**

	IDLE RPM	MAX RPM	K VALUE	OIL TEMP
TEST 1	640.0	2600.0	0.421	27.0
TEST 2	630.0	2380.0	0.359	27.0
TEST 3	780.0	2530.0	0.379	27.0
AVG	683.33334	2503.33334	0.38634	27.0

This is a computer generated certificate and does not require signature
 Fuel Norms entered by PUC center KL0630005 manually, Please visit the RT Office for correction of norms

POLLUTION UNDER CONTROL CERTIFICATE
 Authorised By: ANGAMALI SRT0
 Motor Vehicles Department, Kerala



TEST RESULT : PASS
VALID TILL: 18/Jan/2022

Certificate St. No.: KL06300050003518
 Registration No.: **KL63C2100**
 Chassis No.: MECE2412BAFP0*****
 Engine No.: 400951D00*****
 Class of Vehicle: Goods Carrier
 Make: DAIMLER INDIA COMMERCIAL
 Model: VEHICLES PVT. LTD
 Vehicle Category: BHARATBENZ 2528C
 Date of Registration: HEAVY GOODS VEHICLE
 Emission Norms: 23/Jan/2015
 Fuel: BHARAT STAGE III
 Date of Testing: DIESEL
 19 Jul/2021

DIESEL DRIVEN VEHICLES
 certified that the vehicle conforms to the standards prescribed
 under rule 115(2) of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	2.45	0.23267

MVD
 MOTOR VEHICLES DEPARTMENT

Time of Testing: 08:57:06
 Fee Charged: Rs.150.0
 (one hundred fifty rupees only)

Auto Emission Testing Centre Code: KL0630005
 Testing Centre Name: H4 TECH
 POLLUTION TESTING CENTRE
 Centre Address: 1X/1/B VINGOOR
 KIDANGOOR, ANGAMALI, 683572
 Test Conducted By: JOSEPH P A

In case of any Complaint Please write to The Transport Commissioner, Kerala

TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K VALUE	OIL TEMP
TEST 1	890.0	2600.0	0.299	27.0
TEST 2	880.0	2050.0	0.121	27.0
TEST 3	880.0	2380.0	0.278	27.0
AVG	883.33334	2343.33334	0.23267	27.0

This is a computer generated certificate and does not require signature
 Fuel Norms entered by PUC center KL0630005 manually, Please visit the RT Office for correction of norms

PUC of Vehicles

Annexure No. 16

FORM NO. 17
Prescribed under Rule 14
Health Registrar

1. Serial Number in the Register of adult worker
2. Name of Worker
3. Sex
4. Date of birth

170001.K.K
male
42 yrs. (28/05/1977)

Department/works Metal Crusher

Name of hazardous process Metal (Rock) Crushing

Dangerous process/operation "

Nature of job or occupation Plant operator

Raw materials produce or by products likely Rock Products

Date of posting 11 yrs.

Date of leaving/transfer to other work -

Reasons for discharge/leaving transfer -

Date 27/12/2019

Signs and symptoms observed BP - 120/64 mm Hg
PR - 86/min; SpO₂ - 98%

Nature of tests and results ECG - normal

Result Fit/Unfit Fit

Period of temporary withdrawal from that work -

Reasons for such withdrawal -

Date of declaring him unfit -

Date of assuing fitness certificate 27/12/2019

Signature with Date of the Factory Medical Officer/the certifying Surgeon

Dr. ARUN. E.S. M.B.B.S
Medical Officer
Reg. No : 48634
27/12/19.
(Certifying Surgeon)

Notes: 1. Separate page should be maintained for individual worker
2. Fresh entry should be made for each examination

1. Subs. by Kerala Factories (Amendment) Rules, 2001, S.R.O No. 1149/2001 dated 20-12-2001 in K.G. Ext. No. 2073 dt. 28-12-2001.

• Occup. h/o : working in various crushed units since 20 yrs.

• Past h/o CSOM in childhood. (FE)

• Normal Spirometry

• Audiometry : - Bk min.
HL.


• BRE - WNL.

• G.F. - WNL.

Health check up

Annexure No. 17

Tax Invoice (ORIGINAL FOR RECIPIENT)

	GLOBAL MINERAL WORKS S.NO.210&211, IDA BOLLARAM NEAR AP MET WEIGH BRIDGE SANGAREDDY, TELANGANA - 502325 GSTIN/UIN: 36APHPT3972L1Z5 State Name : Telangana, Code : 36 E-Mail : accounts@globalmineral.in	Invoice No. GMW/21-22/0234	e-Way Bill No. 1713 4318 9394	Dated 17-Jun-2021
	Consignee PLANTERS AGGREGATES 39-16/7 ANKAMALY, KARUKUTTY PANCHAYATH ERNAKULAM KERELA Saji Vadakkakara 9605040020 GSTIN/UIN : 32AEGPV9147K1ZY State Name : Kerala, Code : 32	Supplier's Ref. 224	Other Reference(s)	
Buyer (If other than consignee) PLANTERS AGGREGATES 39-16/7 ANKAMALY, KARUKUTTY PANCHAYATH ERNAKULAM KERELA GSTIN/UIN : 32AEGPV9147K1ZY State Name : Kerala, Code : 32	Buyer's Order No.	Dated		
	Despatch Document No.	Delivery Note Date		
	Despatched through BY ROAD	Destination ERNAKULAM		
	Bill of Lading/LR-RR No.	Motor Vehicle No. TS06UA9032		
	Terms of Delivery			

SI No.	Description of Goods	HSN/SAC	Quantity	Rate	per	Disc. %	Amount
1	BLASTING MATS	40040000	5 NOS	43,200.00	NOS		2,16,000.00
	IGST OUTPUT						38,880.00
	Total		5 NOS				₹ 2,54,880.00

E. & O.E

Amount Chargeable (in words)
INR Two Lakh Fifty Four Thousand Eight Hundred Eighty Only


HSN/SAC	Taxable Value	Integrated Tax		Total Tax Amount
		Rate	Amount	
40040000	2,16,000.00	18%	38,880.00	38,880.00
Total	2,16,000.00		38,880.00	38,880.00

Tax Amount (in words) : **INR Thirty Eight Thousand Eight Hundred Eighty Only**

Company's PAN : **APHPT3972L**

Declaration
 We declare that this invoice shows the actual price of the goods described and that all particulars are true and

Company's Bank Details
 Bank Name : **AXIS BANK LIMITED(CA)**
 A/c No. : **912020017515207**
 Branch & IFS Code : **NIZAMPET & UTIB0002960**

for GLOBAL MINERAL WORKS


SUBJECT TO SANGAREDDY JURISDICTION
 This is a Computer Generated Invoice

Bill Copy of Blasting Mat