

# **COMPLIANCE REPORT**

**APRIL 2020 – SEPTEMBER 2020**

**QUARRY PROJECT**

**M/s PLANTERS AGGREGATES**

**ERNAKULAM DISTRICT**

**KERALA**



**Dt. 28-11-2020**

**The Additional Principal Chief Conservator of Forests (C)**  
Ministry of Environment, Forests & Climate Change,  
4<sup>th</sup> 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 2020 – September 2020) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

**For M/s Planters Aggregates**

  
**for Mr. Saji Vadakkekara**

**(Proprietor)**

**Copy to:-**

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

**Encl: - As Above**

**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, ALWAYE,**

**ERNAKULAM DISTRICT, KERALA**

*BY*

**M/S PLANTERS AGGREGATES,**

**ERNAKULAM DISTRICT**

**KERALA**

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## 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 2020 – September 2020** 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
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**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 from Director General of Mines Safety (DGMS). The copy of Permission is attached as **Annexure No.10**. 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
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**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 saplings will be transplanted to appropriate location.

**COMPLIANCE REPORT**

**(GENERAL CONDITIONS)**

**PART B**

**PART – B – GENERAL CONDITIONS**

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

The project proponent has developing rain water harvesting pond in the quarry site as Rain Water Harvesting structure. The pond is creating at the lowest level of project site. The surface runoff will be channelized to the pond through garland drains. The rain water is used for irrigation purposes, watering of plants, wetting of roads and for dust suppression system (mainly sprinklers system).

<b>02</b>	<b>Environment Monitoring Cell (EMC) as agreed under the affidavit filed by the proponent should be formed and made functional.</b>	<b>Complied</b>
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**Compliance:**

The Environmental Monitoring Cell (EMC) has formed with Mr. Saji Vadakkekara as head of the monitoring cell. The EMC meetings of the cell convene periodically and evaluate the activities towards the stipulations of Environmental Clearance order.

<b>03</b>	<b>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.</b>	<b>Will be complied</b>
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**Compliance:**

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent will plant various avenue trees along either side of the road. There is natural vegetation including trees, shrubs and climbers are presents in the sides of road and parking area.

04	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Will be complied
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**Compliance:**

The installation of solar can reduce the consumption from conventional sources therefore the project proponent will install solar street lights in the project site to use maximum renewable energy to reduce electrical consumption from KSEB.

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

To contain dust emissions from the approach and mining area, the project proponent splashes water with the help of a vehicle. This activity helps to arrest the dust while the vehicles are moving and breaking of building stones. The sprinklers will be installed in the project site for suppression of dust.

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

Eco restoration is an integral part of mining activity. The eco restoration and the mine closure plan will be done at the own cost of the project proponent as per the approved mining plan. The project proponent has started to plant various saplings in the project site.

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
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**Compliance:**

After closure of the mine, the project proponent is intending to 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	<b>Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.</b>	<b>Complied</b>
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**Compliance:**

The project has carried out many activities under Corporate Social Responsibility (CSR)/ Corporate Environmental Responsibility (CER); the main activities were to make play ground for the Government high School pallissery. The project proponent has spent 23 lakh Rupees for buying the land and for playground and for the construction. The receipts and bills area attached as **Annexure No. 9.**

09	<b>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.</b>	<b>Complied</b>
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**Compliance:**

To demarcate the lease area, the project proponent has installed fencing around the area where lease obtained. The complete installation of barbed metal wire fencing around the mining area is with height of 4 ft. All the boundary indicators (boards, stores, markings etc) will be protected at all times and shall be conspicuous.

10	<b>Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.</b>	<b>Complied</b>
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**Compliance:**

The alarm can intimate the general public and labours that the blasting is going to happen. As per the stipulation of Explosive department and State Environment Impact Assessment Authority the project proponent has installed warning alarms in the quarry site.

11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	complied
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**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:-

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

To reduce the adverse effect of Quarrying activities in the community, the mining activity limited to day time as per KSPCB guidelines.

13	Blasting should be done in a controlled manner as specified by the regulations of explosives department or any other concerned agency.	Complied
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**Compliance:**

The blasting is done in controlled manner by using ordinary/electrical delayed 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
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**Compliance:**

The project has appointed licensed person in the site to supervise/control exploitation of minor minerals including blasting at the project site.

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

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

In a building stone quarry project, the overburden and topsoil need to extract during the time of mining, these natural resources are being stacking in the project site. This will be used for plantation, haulage roads and land filling in the mining area. No overburden will let out from the project site.

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

The quarrying is carrying out as per mining plan. To enhance safety and conserve environment, the project proponent will extract the minerals by creating benches. The benches will not exceed 5 meters of height. The width of the bench will have minimum of 5 meters.

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

The project proponent is using NONEL/ED for blasting. The blasting is being under the supervision of qualified person. The new technology of delayed blasting can reduce the incident of fly rock. The project proponent is using blast mat during blasting.

19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Will be complied
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**Compliance:**

The depth of mining won't exceed beyond 10 meter or not below the level of the nearest stream bed, whichever is less. The exploration will be done as per the plan submitted before State Environment Impact Assessment Authority (SEIAA), Kerala.

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

In the project site, there is no area with a slope greater than 45°. Therefore it is not necessary to explore from the slopes 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.	Will be complied
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**Compliance:**

To reduce the impact of sound to the labours in the unit, the project proponent will provide 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.

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

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

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

The project proponent will ensure that all storm water from the mining area is flowing in to the pond creating at mining area. The project proponent will create good drainages where it is necessary in the lower slopes of the project area for storm water management.

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

The project proponent will assure that the loaded trucks are covered with appropriate sheets to avoid dust emission from the vehicle while transportation of materials.

25	The proponent should plant trees at least 5 times of the loss that has occurred while clearing the land for the project.	Will be complied
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**Compliance:**

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

26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Being complied
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**Compliance:**

The spend oil is too low in the project site. The spend oil will be sold only to the approved recyclers, some time it will be used as lubricant in the project site.

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

As part of safety, Explosives are stored in magazine. The magazine is situated in an isolated place specified and approved by the explosives department. The area surrounded to the magazine was fenced with barbed metal wire.

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
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**Compliance:**

To reduce the adverse impact on community life, the norms of Kerala State Pollution Control Board regarding the distance criteria of residences, roads, rivers and worship places is adhered by the project. The distance of the nearest house was 142 meter form the quarry, the KSPCB condition is 100 meter.

29	100 m buffer distance should be maintained from forest boundaries.	Noted
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**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
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**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.1**.

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
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**Compliance:**

The certificates obtained from concerned statutory authorities are enclosed in **Annexure No.1, 2, 3, 4 & 5**

**TABLE 1 – APPROVALS FROM COMPETENT AUTHORITIES**

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

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

At present there is no change in the scope of the project. The project is running as per plan submitted in Environmental Impact Assessment Authority, Govt. of India. 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
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**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
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**Compliance:**

The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed.

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	Complied
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	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 <a href="http://www.seiaakerala.org">www.seiaakerala.org</a> . 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.	
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**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.

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
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**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	complied
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	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.	
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**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. 6, 7 & 8**

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.	Will be Complied
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**Compliance:**

The details of the Environmental Clearance will be displayed on metallic board in the project site. The metallic board as specified in the conditions of Environmental Clearance order.

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
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**Compliance:**

An assurance in the form of affidavit was already submitted to SEIAA Kerala.

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

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.

<b>41</b>	<b>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.</b>	<b>Will be Complied</b>
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**Compliance:**

The Rain water harvesting pond in the site will work as clarifiers to prevent the quarry waste within the site. The project proponent will install additional clarifiers in the project site to prevent sediments and wastes from quarry site to enter in to the main stream..

<b>42</b>	<b>Monitoring of Ambient air Quality to be carried out based on the notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and un loading points &amp; transfer point to reduce fugitive emissions.</b>	<b>Complied</b>
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**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.	Being complied
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**Compliance:**

To prevent the soil erosion, the top soil and overburden is being stacking in designated place within the project site. 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.	Will be complied
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**Compliance:**

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

water collection pond. All sediments and silts will settle at the bottom of the pond and only cleared water 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 PM <sub>10</sub> and PM <sub>2.5</sub> , such as haul road, loading and unloading 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.	Being complied
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**Compliance:**

The project proponent is initiated steps to fix sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The ambient air quality is monitored with the help of an approved laboratory.

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.	Will be complied
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**Compliance:**

To prevent dust emissions, the project proponent will install sprinklers in critical area to reduce the dust emission such as loading and unloading points, haul roads and transfer points. The water spraying will be carried out regularly to arrest the dust emission.

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

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

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

48	<b>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.</b>	<b>Complied</b>
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**Compliance:**

To monitor all conditions stipulated in the Environment Clearance and environment Management Plan, the project proponent has constituted an Environment Monitoring Cell.

49	<b>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.</b>	<b>Will be complied</b>
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**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 will open an account for keeping the funds earmarked for environmental protection and CSR.

50	<b>The Regional Office of MoEF &amp;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.</b>	<b>Will be complied</b>
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**Compliance:**

The project proponent will extend all possible cooperation to the officers from regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

51	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.	Noted
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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
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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.	Will be complied
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**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 or consent given by any other authority for the same project.	Noted
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**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
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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
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57	The mining operation shall be restricted to above ground water table and is should not intersect ground water table.	Will be complied
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**Compliance:**

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

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

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
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**Compliance:**

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

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

The project proponent will start an occupational health surveillance program for the labours working in mining area in association with Primary Health center.

# ANNEXURE

## Annexure No.1

5.88.85H



**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/m<sup>3</sup>  
3.6 The PM 2.5 in ambient air at the boundary shall not exceed 60 microgram/m<sup>3</sup>  
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](http://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.2



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 69<sup>th</sup> meeting of SEAC held on 9<sup>th</sup> & 10<sup>th</sup> March 2017
3. Minutes of the 73<sup>rd</sup> meeting of SEAC held on 30<sup>th</sup> & 31<sup>st</sup> May 2017
4. Minutes of the 71<sup>st</sup> meeting of SEIAA held on 20.07.2017
5. Minutes of the 74<sup>th</sup> meeting of SEIAA held on 09<sup>th</sup> October 2017
6. Minutes of 76<sup>th</sup> meeting of SEIAA held on 16<sup>th</sup> 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 18<sup>th</sup> 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 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	<b>Mr. SAJI VADAKKEKARA (Applicant &amp; Proprietor),</b> <b>M/s PLANTERS AGGREGATES,</b> Palissery, Ezhattumugham P.O., Angamaly, Ernakulam, Kerala-683577				
<b>Land Details</b>						
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	<table><tr><td>Latitude (N)</td><td>10°16'27.60" to 10°16'35.21"</td></tr><tr><td>Longitude (E)</td><td>76°24'59.17" to 76°25'08.73"</td></tr></table>	Latitude (N)	10°16'27.60" to 10°16'35.21"	Longitude (E)	76°24'59.17" to 76°25'08.73"
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
<b>I. Details of Project cost</b>		
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><b>Air Pollution</b></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"> <li>• Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust.</li> <li>• To avoid the dust generation from the drilling operations, wet drilling method will be adopted.</li> <li>• Drill machines will be equipped with dust collectors.</li> <li>• Use of appropriate explosives for blasting and avoiding overcharging of blast holes.</li> <li>• Controlled blasting techniques will be adopted.</li> <li>• Watering of haul road and other road at regular intervals.</li> <li>• Provision of dust filters/ mask to workers working at highly dust prone and affected areas.</li> <li>• Provision of green belt all along the periphery of the lease area.</li> <li>• Periodical monitoring of ambient air quality in and around the lease area.</li> </ul>

		<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"> <li>• In case of long transportation the trucks after loading will be covered with tarpaulin sheets.</li> <li>• Speed of the vehicles will be maintained within the prescribed limits.</li> <li>• Trucks will not be over loaded and will be maintained to the body level</li> </ul>
	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"> <li>• Proper maintenance of machinery, equipments and improvement on design of machines.</li> <li>• Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas.</li> <li>• Creation of wide green belt of dense foliage between mine areas and residential colonies.</li> <li>• Proper training to personnel to create awareness about adverse noise level effects.</li> <li>• Planned noise monitoring at suitable locations in the plant and outside location for proper effective remedial actions.</li> </ul>
	Solid Waste Management	<p><b>Topsoil Management</b></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.
		<b>Overburden Management</b> 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
<b>PART B</b>		
<b>Environment Impact Assessment and Mitigation Measures</b>		
<b>Impact on water</b>		
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"> <li>➤ 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.</li> <li>➤ All measures will be taken not to disturb the existing drainage pattern adjacent to the other property.</li> <li>➤ De-siltation traps and storm water collection pond proposed for silt removal.</li> <li>➤ The storm water collected from the lease area will be utilized for dust suppression on haul roads, plantation within the premises etc.</li> </ul>
<b>Impact on Biodiversity and Eco restoration Programmes</b>		
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
<b>Impact on Air Environment</b>		
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.
<b>Energy Conservation</b>		
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.
<b>Risk Management</b>		
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.
<b>Socio Economic Impacts</b>		
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.
<b>PART C</b>		
72	Details of NABET approved EIA Consultant engaged-Their name, address and accreditation details	<b>M/s Environmental Engineers &amp; Consultants Pvt. Ltd.</b> <b>(NABET Accredited Consultant Organization)</b> <i>Head Office :- A1-198, Janak Puri, New Delhi.</i> <i>Branch Office:-</i> C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.
<b>Summary and Conclusion</b>		
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. <b>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.</b> 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 69<sup>th</sup> meeting of SEAC held on 9<sup>th</sup> & 10<sup>th</sup> 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 MTA 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 73<sup>rd</sup> meeting of SEAC held on 30<sup>th</sup> and 31<sup>st</sup> 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 71<sup>st</sup> 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 66<sup>th</sup> 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 74<sup>th</sup> meeting of SEIAA held on 09<sup>th</sup> 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 74<sup>th</sup> 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 76<sup>th</sup> meeting of SEIAA held on 16<sup>th</sup> 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 7<sup>th</sup> 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)**

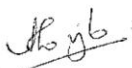
To,

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, 4<sup>th</sup> 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

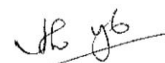
GENERAL CONDITIONS (for mining projects)

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](http://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 PM<sub>10</sub> and PM<sub>2.5</sub> 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. 3

**अनुज्ञप्ति प्ररूप एल. ई.-3 | LICENCE FORM LE-3**  
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)  
(See article 3(a) to (d) of Part 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 रा

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 रुपए (Annual Fee Rs): 2400/-

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

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रारिस्थिति | Status of licensee : Individual

3. अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य 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 विधिमान्य है।  
Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	उप-प्रभाग	Quantity at any one time
Sr. No.	Name and Description	Class & Division	Sub-division	Sub-division	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 अनुज्ञप्ति 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. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। 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. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट 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 उपावधों 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 प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख 31 मार्च 2007 तक विधिमान्य 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 उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्ति 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/-

तारीख : | The Date - 27/12/2005 संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives  
South Circle, Chennai

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 पृष्ठांकन 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

Dy. Chief Controller of Explosives, Ernakulam  
कृपे रूप मुख्य विस्फोटक नियंत्रक  
for Deputy Chief Controller of Explosives  
Ernakulam

Copy of Explosive license



## Annexure No. 4

													
നമ്പർ: 3/2019-2020/B3/B3-696/19	തീയതി: 01-04-19												
<b>കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത്</b> കറുകുറ്റി പി.ഒ., എറണാകുളം (ജില്ല) പിൻ: 683576, ഫോൺ: 0484-2612231, ഇ-മെയിൽ: karukuttygp@gmail.com													
വ്യവസായം, വാണിജ്യം, സംരഭകത്വം, മറ്റ് സേവനങ്ങൾക്കുള്ള ലൈസൻസ് (കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FACTEOS ലൈസൻസ് ചട്ടങ്ങൾ 1996)													
ലൈസൻസിയുടെപേര്	സജി വടക്കേക്കര												
ലൈസൻസിയുടെ മേൽവിലാസം	വടക്കേക്കര വീട്, മങ്ങാട്ടൂർ-കോലഞ്ചാരി പി ഒ, പാലിശ്ശേരി.												
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	പ്ലാന്റേഴ്സ് അഗ്രിഗേറ്റ്സ് ക്വാറി												
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	ഗ്രാനൈറ്റ്, 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>2500</td> <td>104696</td> <td>07-02-19</td> </tr> </table>	തുക	രസീത് നമ്പർ	തീയതി	4000*5= 20,000/-	104694	07-02-19		104694	07-02-19	2500	104696	07-02-19
തുക	രസീത് നമ്പർ	തീയതി											
4000*5= 20,000/-	104694	07-02-19											
	104694	07-02-19											
2500	104696	07-02-19											
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം)	1. പാരിസ്ഥിതി സാക്ഷ്യപത്രം, ക്വാറിയിങ്ങ് 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 തയ്യിൽ റിദ്യായമായി അവസാനിക്കുന്നതാണ്.												
	കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത് SECRETARY KARUKUTTY GRAMA PANCHAYAT PH: 0484-2612231(0)												

License from Gram Panchayat



## Annexure No. 5

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](mailto:director_dir_dmg@kerala.gov.in)  
[www.dmg.kerala.gov.in](http://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 1<sup>st</sup> 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]*  
19/06/2019

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.6



**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**



NABL(TC-5402)

ULR No:TC540220000003485F	Date: 28.11.2020	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt 23.11.2020

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN20110222
Sample Name	Ambient Noise	Monitoring Commenced on	02.12.2020 / 06:00
Monitoring Location	South side boundary	Monitoring Completed on	03.12.2020 / 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	37.9	14:00	50.8	22:00	36.8
07:00	40.7	15:00	51.2	23:00	34.8
08:00	45.0	16:00	52.4	24:00	37.3
09:00	48.5	17:00	52.8	01:00	38.1
10:00	50.8	18:00	47.3	02:00	37.7
11:00	54.0	19:00	43.8	03:00	38.4
12:00	51.2	20:00	39.9	04:00	37.3
13:00	50.4	21:00	39.4	05:00	39.1

Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time (06:00 to 22:00)	dB(A)	49.3
2	Ambient Sound Level (Leq) Night Time (23:00 to 05:00)	dB(A)	37.6

Remarks:

\*\*\*End of Report\*\*\*

*Shency Joy*

**Shency Joy**  
Dy. TM Chemical  
Checked by:

*Lalju P. N.*

**Lalju P. N.**  
Laboratory Head  
Authorized Signatory

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Web: www.sealabs.in, E-mail: seaalab@gmail.com

## Result of ambient sound level




## ANNEXURE No.7



**Standard<sup>S</sup>**  
Environmental Monitoring

**TEST REPORT**



NABL(TC-5402)

ULR No:TC540220000003484F	Date: 28.11.2020	Page 1 of 1
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CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt 23.11.2020


SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	EN20110221
Sample Name	Ambient Air	Sample Received on	24.11.2020
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	24.12.2020
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	28.11.2020


DETAILS OF SAMPLING			
Sampling Location	East Side Boundary	Date of Sampling	23.11.2020
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 <sub>10</sub> )	IS 5182 Part 23: 2006 RA 2017	µg/m <sup>3</sup>	69.7	100 (Max)
2	Particulate matter (PM <sub>2.5</sub> )	EPA 40 CFR Part 50 Appendix - L	µg/m <sup>3</sup>	32.4	60.0 (Max)
3	Sulphur dioxide (SO <sub>2</sub> )	IS 5182 Part 2: 2001 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)
4	Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 Part 6: 2006 RA 2017	µg/m <sup>3</sup>	< 2.00	80.0 (Max)

Remarks: \*\*\*End of Report\*\*\*

  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:

  
**Laiju P. N.**  
 Laboratory Head  
 Authorized Signatory

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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.13



**Standard<sup>S</sup>**  
Environmental Monitoring



NABL(TC-5402)

**TEST REPORT**

ULR No: TC540220000003487F	Date: 28.11.2020	Page 1 of 2
----------------------------	------------------	-------------

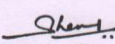
CUSTOMER DETAILS			
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District		
Customer Reference	Test Request dt 23.11.2020		


SAMPLE DETAILS			
Product Category	Water	Sample Code	WT20110070
Sample Name	Quarry Water	Sample Received on	24.11.2020
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	24.11.2020
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	28.11.2020
Information Provided by Customer	---		

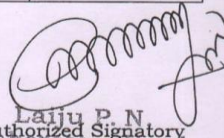
DETAILS OF SAMPLING			
Sample Source/Location	Inside the quarry	Date of Sampling	23.11.2020
Sampling Procedure	SEAAL/ENL/GEN/SOP/01& SEAAL/MBL/SOP/06	Sample Temperature	32 °C
Latitude	---	Longitude	---

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	---	Unobjectionable	Unobjectionable
3	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.40	1.00 (Max)

  
**Shency Joy**  
Dy. TM Chemical  
Checked by:

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

  
**Laju P. N.**  
Authorized Signatory

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Web: www.sealabs.in, E-mail: sealab@gmail.com



# Standard<sup>S</sup>

Environmental Monitoring

## TEST REPORT



ULR No: TC540220000003487F

Date: 28.11.2020

Page 2 of 2

## 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	---	6.88	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	172	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	111	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2019	mg/L	58.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	14.4	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	5.36	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	13.7	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2019	mg/L	38.8	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.21	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	5.82	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 <sup>rd</sup> 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 <sup>rd</sup> 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 <sup>rd</sup> Edition 3111D:2017	mg/L	BDL (LOD-0.03)	Max 0.03

## 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\*\*\*

Shency Joy  
Dy. TM Chemical

Checked by:

Salini T. S.

Authorized Signatory

Lalju P. N.

Authorized Signatory

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Result of Quarry water



**TEST REPORT**

ULR No: TC540220000003486F	Date: 28.11.2020	Page 1 of 2
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CUSTOMER DETAILS	
Customer Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
Customer Reference	Test Request dt 23.11.2020

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT20110069
Sample Name	Bore Well	Sample Received on	24.11.2020
Sample Conditions at Receipt	Fit for Analysis	Temperature @ Receipt	30 °C
Sample Quantity & Packing	2 litre & Plastic Bottle	Test Commenced on	24.11.2020
Sampled by	Mr. Rahul E J Lab Authorized Sampler	Test Completed on	28.11.2020
Information Provided by Customer	---		

DETAILS OF SAMPLING			
Sample Source/Location	Bore Well	Date of Sampling	23.11.2020
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	---	Unobjectionable	Unobjectionable.
3	Turbidity	IS 3025 Part 10:1984 RA 2017	NTU	0.80	1.00 (Max)

*Shency Joy*  
Shency Joy  
Dy. TM Chemical  
Checked by:

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

*Laju P. N.*  
Laju P. N.  
Laboratory Head  
Authorized Signatory

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# Standard<sup>S</sup>

Environmental Monitoring

## TEST REPORT



ULR No: TC540220000003486F

Date: 28.11.2020

Page 2 of 2

## 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	---	6.75	6.50 - 8.50
05	Conductivity	IS 3025 Part 14:1984 RA 2019	μS/cm	235	---
06	Total Dissolved Solids	IS 3025 Part 16:1984 RA 2017	mg/L	152	500 (Max)
07	Total Hardness (as CaCO <sub>3</sub> )	IS 3025 Part 21:2009 RA 2019	mg/L	64.0	200 (Max)
08	Calcium (as Ca)	IS 3025 Part 40:1991 RA 2019	mg/L	16.0	75.0 (Max)
09	Magnesium (as Mg)	IS 3025 Part 46:1994 RA 2019	mg/L	5.84	30.0 (Max)
10	Chloride (as Cl)	IS 3025 Part 32:1988 RA 2019	mg/L	41.1	250 (Max)
11	Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 Part 23:1986 RA 2019	mg/L	38.8	200 (Max)
12	Iron (as Fe)	IS 3025 Part 53:2003 RA 2019	mg/L	0.38	1.00 (Max)
13	Sulphate (SO <sub>4</sub> )	IS 3025 Part 24:1986 RA 2019	mg/L	10.2	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 <sup>rd</sup> 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 <sup>rd</sup> 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 <sup>rd</sup> Edition 3111D:2017	mg/L	BDL (LOD-0.03)	Max 0.03

## 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\*\*\*

*Shency Joy*  
**Shency Joy**  
 Dy. TM Chemical  
 Checked by:

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

*Laiju P. N.*  
**Laiju P. N.**  
 Authorized Signatory

The results are related to the sample submitted for analysis and this test report shall not be reproduced except in full without the written approval of the laboratory.

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<sup>S</sup> Environmental & Analytical Laboratories

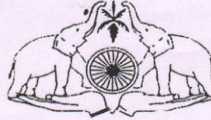
Accreditation and Approval: NABL as per ISO 17025: 2017 & "A" Grade Laboratory of KSPCB  
 K.J. Tower, Pathalam, Udyogamandal P.O., Ernakulam-683 501, Tel. 0484-2546660, 93 87 27 24 02, 90 74 34 14 43  
 Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Bore well



## ANNEXURE No.9

ഷാജു വി. തെക്കേക്കര  
പ്രസിഡന്റ്  
കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത്  
കറുകുറ്റി - 683 576  
എറണാകുളം ജില്ല, കേരള



തെക്കേക്കര വീട്  
കറുകുറ്റി പി.ഒ.,  
മലയാംകുന്ന്  
Ph : 0484- 2613390  
Mob : 9895087041,  
9496045726

Ref:-

Date..29.06.18...

To,

M.D. ചാലൂദ്യം & അഗ്രിബിസിനസ്സ്  
ചാലിഅരി.

ചാലിഅരി നമ്പ: മെമ്മോറിയലിൽ

മെമ്മോറിയലിൽ ചാലിഅരി നമ്പ: മെമ്മോറിയലിൽ  
അതിൽ നിന്നും ചാലിഅരി നമ്പ: മെമ്മോറിയലിൽ  
ലഭിക്കുന്ന അടയുടെ പട്ടികയെക്കുറിച്ച് നിന്നും  
C&R മന്ദിരം അനുബന്ധിച്ചുള്ളതാണ് എ  
നയമുപയോഗം അനുബന്ധിച്ചുള്ളതാണ്.

ചിന്താമൂലകമായി



ഷാജു വി. തെക്കേക്കര  
പ്രസിഡന്റ്  
കറുകുറ്റി ഗ്രാമപഞ്ചായത്ത്



**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery (P.O.) Ernakulam - 682 311  
RTGS / NEFT / IFSC Code : ICIC0002579

VALID FOR THREE MONTHS ONLY  
15 07 2019  
D D M M Y Y Y Y

AC PAYEE  
KALATHALAM SANSHADAKA SAMITHI GHS PAUSSETT OR ORDER

₹ 300,000

FOR PLANTERS AGGREGATES

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

PROPRIETOR

"001695" 682229201: 500006 29

**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery (P.O.) Ernakulam - 682 311  
RTGS / NEFT / IFSC Code : ICIC0002579

VALID FOR THREE MONTHS ONLY  
17 07 2019  
D D M M Y Y Y Y

AC PAYEE  
KALATHALAM SANSHADAKA SAMITHI GHS PAUSSETT OR ORDER

₹ 300,000

FOR PLANTERS AGGREGATES

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

PROPRIETOR

"001697" 682229201: 500006 29

**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery (P.O.) Ernakulam - 682 311  
RTGS / NEFT / IFSC Code : ICIC0002579

VALID FOR THREE MONTHS ONLY  
19 07 2019  
D D M M Y Y Y Y

AC PAYEE  
KALATHALAM SANSHADAKA SAMITHI GHS PAUSSETT OR ORDER

₹ 300,000

FOR PLANTERS AGGREGATES

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

PROPRIETOR

"001696" 682229201: 500006 29



**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery, P.O. Ernakulam - 682 311  
RTGS / NEFT / FS Code: ICIC0002579

VALID FOR THREE MONTHS ONLY  
04/11/2019  
D D M M Y Y Y Y

Pay to the order of **KALSHAN SANKHARAK SAMITHI, MHS. PALISSERY** OR ORDER

**THREE LAKH ONLY**

₹ **3,00,000/-**

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

FOR PLANTERS AGGREGATES

PROPRIETOR  
Please sign above

⑈001787⑈ 682229201⑈ 500006⑈ 29

**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery, P.O. Ernakulam - 682 311  
RTGS / NEFT / FS Code: ICIC0002579

VALID FOR THREE MONTHS ONLY  
04/11/2019  
D D M M Y Y Y Y

Pay to the order of **KALSHAN SANKHARAK SAMITHI, MHS. PALISSERY** OR ORDER

**THREE LAKH ONLY**

₹ **3,00,000/-**

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

FOR PLANTERS AGGREGATES

PROPRIETOR  
Please sign above

⑈001805⑈ 682229201⑈ 500006⑈ 29

**ICICI Bank**  
Kolenchery Branch  
Pallimukale Building, College Junction, Kolenchery, P.O. Ernakulam - 682 311  
RTGS / NEFT / FS Code: ICIC0002579

VALID FOR THREE MONTHS ONLY  
04/11/2019  
D D M M Y Y Y Y

Pay to the order of **KALSHAN SANKHARAK SAMITHI, MHS. PALISSERY** OR ORDER

**THREE LAKH ONLY**

₹ **3,00,000/-**

257905500006

CARBL CBS  
BUSINESS BANKING - CURRENT ACCOUNT  
Payable at par at all branches of ICICI Bank Limited in India

FOR PLANTERS AGGREGATES

PROPRIETOR  
Please sign above

⑈001781⑈ 682229201⑈ 500006⑈ 29





## Annexure No. 10



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 रसायन 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%2fqG57XRuyw%3d%3d 1/2



28/2/2020

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) (lease 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=haFFORIScs7T%2fqG57XRuyw%3d%3d

2/2

### Permission from DGMS