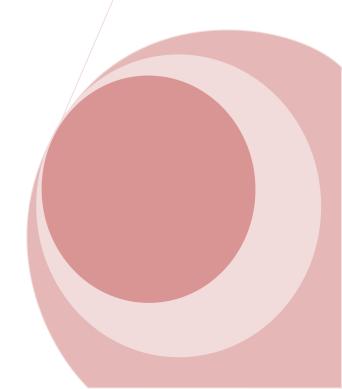
# **COMPLIANCE REPORT**

APRIL 2018 - SEPTEMBER 2018

# M/S PLANTERS AGGREGATES ERNAKULAM DISTRICT KERALA





Dt. 19-02-2019

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

Ref :- File No. 58/SEIAA/KL/7586/2012

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 4.8033 Ha. by order No. 58/SEIAA/KL/7586/2012 dated 15-03-2013 by State Environmental Impact Assessment Authority, Kerala. The compliance report of First half (April 2018 - September 2018) to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you,

Yours respectfully,

For M/s Planters Aggregates

Mr. Saji Vadakkekara

(Proprietor)

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

Encl: - As Above

Planters Aggregates

Palissery, Angamaly, Ezhattumugham P.O., Ernakulam, Kerala - 683 577, Phone: 0484 2439166, 2439167, Mob; 9562141400, E-mail; plantersgroup@yahoo.com

#### **COMPLIANCE REPORT**

TO

THE CONDITIONS

**OF** 

#### **ENVIRONMENTAL CLEARANCE ORDER**

NO: 58/SEIAA/KL/7586/2012

**DATED ON: 15.03.2013** 

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

# M/S PLANTERS AGGREGATES

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# M/S PLANTERS AGGREGATES

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# M/S PLANTERS AGGREGATES

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#### M/S PLANTERS AGGREGATES

#### **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 15.03.2013. As part of general condition No.25 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 2018- September 2018 is being submitted

# M/S PLANTERS AGGREGATES

## **Brief of the project**

Type of Project	Quarry project (Building stone)		
Name of the project	M/s Planters Aggregates		
Category of the project	B2		
GPS Locations	<b>Latitude (N)</b> 10 <sup>0</sup> 16' 31.28" N		
	<b>Longitude (E)</b> 76 <sup>0</sup> 25' 07.37" E		
Address for	Palissery, Ezhattumugham P.O.,		
correspondence	Ernakulam District,		
	·		
	Kerala – 683 577 Tel. No. 0484-2439166, 2439167		
	1 el. 110. 0404-2439100, 2439101		
Website and E mail ID of	www.plantersgroup.com.		
company	plantersgroup@yahoo.com		
Name, Phone Number &	1. Saji Vadakkekara		
e - mail id of responsible	Managing Director 0484-2439166		
persons	plantersgroup@yahoo.com		
	plantologicap c yantociscin		
	2. Davis George		
	General Manager		
	9605040050		
	davisgeorgekinattingal@gmail.com  Vain Features		
Total area under Environment Clearance	4.8033 hectare		
Minable reserves	45,90,000		
Production	2,88,000 TPA		
Life of Mine	16 Years		
Highest and lowest elevation	145 m MSL and lowest elevation is 95 m MSL.		
Crusher unit	Yes within the project site		
Enviro	onmental Settings		
Nearest house	nearest habitation is at 50 m towards N.		
Nearest Water Body	Chalakudi River, 1.5km, N		
Nearest town	Palissery, 0.74km, SW		
Nearest hospital	Palissery Govt. Dispensary ( 1.5 km ) SW		
Nearest School	Palissery Govt. LP School (1.5 km) SW		
Seismic zone	Zone-III, Moderate damage risk zone as		
	par BMTPC, Vulnerability atlas Seismic		
	, , , , , , , , , , , , , , , , , , , ,		

	zone of India IS: 1893-2002.		
Air quality	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> are under NAAQ standard		
Water quality	Under acceptable limit (Bore well)		
Ambient noise	Day time :- 48.8 dB(A)  Night time :- 35.0 dB(A)		

#### M/S PLANTERS AGGREGATES

#### SALIENT FEATURES OF THE PROJECT

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 the O.M No. J-13012/12/2013-IA-II (I) dt.24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Geographical location of the project site is in 9<sup>0</sup>59'21.50 to 9<sup>0</sup>59' 12.22" Latitude (N) and  $76^{\circ}37'20.43"$  to  $76^{\circ}37'06.07"$ (E). The quarry is interlinked with a Crusher / M sand unit located within the complex. The Capacity is 2, 70,000 MTA. There are no litigations against the lease area or applicant in any court of law. Topography is hilly. Highest elevation is 88m MSL and lowest 38m MSL. The approximate daily water demand is 5 KLD and total power requirement is 75 kw. The nearest house is located at 50m North of the proposed quarry.

# COMPLIANCE REPORT (SPECIFIC CONDITIONS)

**PART A** 

#### M/S PLANTERS AGGREGATES

#### PART - A - SPECIFIC CONDITIONS

01	The storm water drainage channels and drainage line to the	Complied
	existing pond in the site and its exit from the site should be	
	made fully functional.	

#### Compliance:

To manage storm water at project site, the project has constructed storm water drainage channels and drainage lines to the existing pond in the site. One of the expected adverse impacts to the community from the quarrying area is contamination of streams through storm water runoff. The project has constructed various pits as de - siltation trap at the last point of drainage to settle down sediments at the bottom of the pits. The storm water drainage and its exit from the site are fully functional at all the time. The photograph showing the exit of drainage form the site is provided at Plate No.1.

0	2	The depth of the mining should be restricted to the 30m level	•
		as agreed in the proposal.	Complied

#### Compliance:

As per the direction, Mining depth will not exceed beyond 30 meter or not below the level of the nearest stream bed, whichever is less. The mining activity is progressing in tune with the approved mining plan. The project proponent has been scrupulously following the condition regarding the depth of mine stipulated in the Environmental clearance Order. As plan submitted before EAC (Expert Appraisal Committee), in the conceptual phase of quarry project the exploration of mineral is from 145 to 30m MSL.

# COMPLIANCE REPORT

(GENERAL CONDITIONS)

**PART B** 

#### PART - B - GENERAL CONDITIONS

01	Rain water harvesting to collect and utilize the entire water	Complied
	falling in land area should be provided.	

#### Compliance:

As part of conservation of water, the project proponent has developed rain water harvesting pond in the project site to collect rain water falling in the entire mining area. The pond is situated in the lowest level of project site. The surface runoff is canalized to the pond through garland drains. Two concrete tanks are also used for collecting rain water. The water from pond is mainly used for crusher work, watering of plants, wetting of roads and sprinkler system for contain dust emission. The photograph showing the rain water collection pond and tank in the project area is attached at **Plate No. 2**.

02	Environment monitoring cell as agreed under the affidavit   complied
	filed by the proponent should be formed and made
	functional.

#### Compliance:

The project proponent has constituted an Environment Monitoring Cell (EMC) with Mr. Saji Vadakkekara (proprietor of Planters Aggregates) as head of the cell. The meetings of the cell convened periodically and evaluate the activities towards the stipulations of Environmental Clearance order. The details of the Environment Monitoring Cell are given below. As part of monitoring, sound levels, ambient air and water were monitored through a NABL accredited laboratory. The monitored results are well within the permissible limits. The details of monitoring cell are given below.

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

SI. No.	Post	Name
1.		
	Head of monitoring cell (proprietor)	Saji Vadakkekara
2.		
	Head in charge (Environmental)	Davis George

#### M/S PLANTERS AGGREGATES

3.	Senior Environmental Officer	Reji K. Paul
4.	Asst. officer of Environment, Health and safety at site	Vishavash sivaji
5.	Environmental consultant	M/s Environmental Engineers & Consultants Pvt. Ltd. A1-198, Janak Puri, New Delhi
6.	Address of Environmental Laboratory	Standards Environmental & Analytical Laboratories, KJ Tower, Udyogamandal, EKM

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

#### Compliance:

The project proponent has planted many saplings along the road side to prevent dust emission during transportation of materials. There are natural vegetation including trees, shrubs, herbs and climbers present either side of tarred road and in the parking areas. This will help to reduce air and sound pollution.. The name and family of flora is given below in **Table Number 2**. The photograph of avenue trees is attached as **Plate No. 3**.

TABLE 2 Details of the natural vegetation existing along the road side is as follows

SI. No.	Scientific Name	Common Name	Family	Habit
1.	Tectona grandis	Thekku	Verbenaceae	Tree
2.	Tabernaemontana alternifolia	Kunnanpala	Apocynaceae	Tree
3.	Chromolaena odorata	Communist-pacha	Compositae	Shrub
4.	Mangifera indica	Mavu	Anacardiaceae	Tree
5.	Ziziphus oenopolia	Thodalli	Rhamnaceae	Climber

#### M/S PLANTERS AGGREGATES

04	The project shall incorporate devices for solar energy	Complied
	generation and utilization wherever possible.	

#### Compliance:

To reduce the consumption of electricity from the conventional sources, the project has installed solar street lights in the project site near to the office and magazine area to use maximum renewable energy to reduce electrical consumption from KSEB. The photograph of the solar street lights is attached at **Plate No. 4.** 

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

#### Compliance:

To prevent dust emission, sprinklers are installed in the project site. The sprinklers installed in and around the crusher unit. To arrest the dust emission form the approach road and the haulage road, the project proponent has deployed a tanker vehicle to splashes water. The photograph of effective utilization of sprinklers is provided at **Plate No. 5.** The project is intending to invent wet drilling in the project site to arrest the dust emission.

06	The eco-restoration plan submitted with the proposal should	Noted
	be fully implemented.	

#### Compliance:

The eco restoration plan prepared by the project will be executed in a good manner. The project started to plant various saplings in and around the project site. The project converted a sloppy land in to benches by systematically dumping the overburden and top soil. To prevent soil erosion, the benches has covered with a *geotex* coir mat and planted grass. The photograph of benches covered by coir mat is attached as **Plate No. 6**.

07	Corporate	social	responsibility	agreed	upon	by	the	Complied
	proponent	should b	e implemented					

#### M/S PLANTERS AGGREGATES

#### Compliance:

The project has carried out many activities under Corporate Social Responsibility (CSR); the main activities were in the sectors like education, health care, Environment sustainability, infrastructure Development etc. The detail of CSR provided in the period of Second half is mentioned in the **Table No.3**. The receipts and bills area attached as **Annexure No. 1**.

Table 3 - Details of performed activities under CSR

Sectors	Activities	Partners	Beneficiaries	Amount
				spent in Rs.
Arts, Sports	Donation For	Camorra Arts &	Public	8,000
& Festival	Festival	Sports Club		
	Donation For	St Alphonsa Kappela	Public	5000
	Sports	Pallissery		
	Donation For	Sree narayana	Public	5000
	Festival	Gurudeva		
		Moonurpalli Siva		
		kshethram		
Social	Donation for	Janakeeya Prakrithi	Public	500
	Funeral	Samrakshana		
		Samithi		
	Donation for		Emmanuel	34900
	Charitity		Orphanage	
		Total		53,400

08	Barbed metal wire fencing around the mining area shall be	Complied
	provided with a height of not less than 5 ft so that the falling	
	of animals/human/belongings/dumping of garbage's etc.	
	does not happen.	

#### M/S PLANTERS AGGREGATES

#### Compliance

To demarcate the boundary and to ensure safety, the project has erected barbed metal wire fencing around the mining area with height of 5 ft. This will help to prevent falling of animals/human being/dumping of garbage etc. The photograph of the fencing is provided at **Plate No. 7**.

09	Warning alarms indicating the time of blasting (to be done at	Complied
	specific timings) has to be arranged as per stipulations of	
	explosive department.	

#### Compliance:

To give warning to the labours and community people prior to the blasting in quarry, the project installed warning alarms as per the stipulation of Explosive department in the quarry site. The blasting time is fixed between 11.00am to 11.30am and 3.30pm to 4:00 pm. A danger board is also installed which gives information about the blasting time to the general public. The photograph showing the danger area, sign board etc, is provided at **Plate No. 8.** 

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

#### Compliance:

To contain dust emissions and for the trouble free transportation of materials, the project has tarred and maintaining access road of 2.5 kilometer to the quarry site (crusher Unit). The project splashes water on the road to arrest the dust production during summer season. The access road to the quarry is maintained under sprinkler system to control the dust emission during transportation. This access road is maintaining with granite metals for traveling Hitachi like excavation machines. The photograph is showing the tarred access road, provided at **Plate No. 9**.

11	Overburden material should be managed within the site and	complied
	the old quarries, if any, should be reclaimed and restored	

#### Compliance:

The overburden and topsoil need to extract during the time of mining, these natural resources being staked in the project site. At present the overburden excavated from the quarry is dumping in to three abandoned quarries near to the project site. The project converted a slope area in to benches by systematically dumping the overburden. To prevent soil erosion this has covered with a *geotex* coir mat and planted grass. As part of eco - restoration, the project is intending to plant various saplings and medicinal plant on the prepared benches. The photograph of the overburden is attached as Plate **No. 10.** 

1	2	Height of benches should not exceed 5m and width should	Complied
		not be less than 5m.	

#### Compliance:

The quarrying is carrying out as per mining plan. To enhance safety and conserve environment, the project extracts the minerals by creating benches. The benches are 5 meters of height and the width of the bench have minimum of 5 meters.

Plate No. 11 showing the same. The minor minerals are exploring under the supervision of qualified persons so that the project can form the benches systematically. The copy of certificates of second class manager and mines mate are attached at Annexure No 7 & 8.

13	Mats to reduce fly rock blast to a maximum of 15 PPV should	Noted
	be provided.	

#### Compliance:

The project is using ordinary/electric delayed detonator for blasting therefore there is no issue with fly rock in the community. The project is also assuring that the maximum PPV is under 10 during the time of blasting. The project proponent is yet to incorporate mats while blasting is happening.

Ī	14	Mining depth should not exceed beyond 40m, unless	
		otherwise specifies or not below the level of nearest stream	complied
		bed whichever is less.	oompiioa

#### M/S PLANTERS AGGREGATES

#### Compliance:

The project proponent has given instruction to the mining mate to explore the minerals as per the submitted eco friendly plan. The depth of mining won't exceed beyond 40 meter or not below the level of the nearest stream bed, whichever is less. The exploration of building stone will be maintained as 30 m MSL in the mining area as agreed in the proposal.

15	Acoustic enclosures should have been provided to reduce	Complied
	sound amplifications in addition to the provisions of	
	greenbelt and hollow brick envelope for crushers so that the	
	noise level is kept within prescribed standards given by	
	CPCB/KSPCB	

#### Compliance:

To reduce the impact of sound to the labours in the unit, the project has provided ear plugs. And there is a crusher unit functioning in the project site; the machines of crusher unit are housed with hollow bricks. Vegetation around the mining area will help to reduce noise and air pollution. This helps the noise level kept within prescribed standards as per CPCB/KSPCB standards. The project is trying to enhance the vegetative cover by planting more tree saplings. The project is regularly monitors the ambient noise level at the project site. The result of NABEL accredited laboratory of ambient sound level is attached at **Annexure No. 11**. The photograph showing the crusher unit is attached at **Plate No. 12**.

16	Assurance in the form of affidavit should be given to SEIAA	Complied
	that eco-restoration including the mine closure plan shall be	
	done at the own cost of the project proponent.	

#### Compliance:

Assurance in the form of affidavit was already submitted to SEIAA Kerala after getting the Environmental Clearance. The copy of the affidavit is attached at **Annexure No. 10.** Eco restoration in the mining plan and mine closure plan will be done the own cost of the project proponent.

#### M/S PLANTERS AGGREGATES

17	Garland drains to be provided in the lower slopes around the	Complied
	core area to channelize storm water.	

#### Compliance:

The project proponent will ensure that all storm water from the mining area will flow in to the pond. To catch the storm water, the project has constructed storm water drains in the lower slopes of the project area for effective management of storm water. This helps to channelize the storm water to the rain water collection pond and the most of the debris will be settled down in the bottom of the pond. The project proponent is intending to create garland drains where it is necessary in the project area for storm water management.

18	Debris/ silt traps to be provided to prevent entry of dust and	Complied
	quarry wastes entering the main streams.	

#### Compliance:

De- siltation of surface runoff is an important mitigates measure to prevent contamination of public stream. Storm water from entire project area is collected through channels and directed to the existing pond in the site. The deposited silt at the bottom of pond can collect in summer season by using excavator. The over flow water from the pond is released only through the top area and the outlet of the outward channel is protecting with steel mesh to trap the floating debris. This arrangement prevents the quarry waste from the site to the mainstreams. The photograph showing the silt trap arrangement is attached at **Plate No. 13.** 

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

#### Compliance:

All statutory clearances, approvals, licenses are obtained from concerned authorities. All conditions stipulated in such approvals are strictly followed. The

#### M/S PLANTERS AGGREGATES

obtained approvals are mentioned in Table No.4. The certificates obtained from concerned statutory authorities are enclosed in Annexure No. 2, 3, 4, 5 & 6

Table 4 - The details of statutory approvals

Name of the Statutory	Name of the Statutory	Approval Number & Date
approval	authority	
"Consent to Operate"	Kerala State Pollution Control	File No. PCB/EKM/DO-
	Board	1/OA-404/15
		Dated : 08/03/2016
Environmental Clearance	State Environmental Impact	58/SEIAA/KL/7586/2012
order	Assessment Authority, Kerala	Dated: 15/03/2013
Explosive License	Ministry of Commerce &	E/SC/KL/22/751(E33224)
	Industry – Petroleum &	Dated : 14/3/2016
	Explosives Safety	
	Organization (PESO)	
License for quarry	Karukutty Gram Panchayat	B3-02/2018-19
operations		Dated:1/04/2018
Lease order	Directorate of Mining and	660/2010-
	Geology	11/9439/M3/2010
		Dated : 3/1/2011

Ī	20	In case of any change(s) in the scope of the project, the	Will be
		project would require a fresh appraisal by this authority.	complied

#### Compliance:

The project proponent is not intending to expand the area of mine, technology and scope of working. The project will appear in front of SEIAA for Environment Clearance if the project wants to expand its scope.

Ī	21	The authority reserved the right to add additional safeguard	Will be
		measures subsequently, if found necessary, and to take	complied
		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.

#### Compliance:

If the authority instructs to add additional safeguard measures subsequently, the project will be complied with. The project is scrupulously following the suggested safeguard measures in the Environmental clearance order and EIA report for an environment friendly mining.

22	The stipulations by Statutory Authorities under different Acts	complied
	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.	

#### Compliance:

The stipulated orders and directions under different act and notification including EIA notification will be scrupulously followed. A brief list of various Acts and notifications which are followed by the proponent is given below

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

23	The project proponent should advertise in at least two local	Complied
	newspapers widely circulated in the region. One of which	
	shall be in the vernacular language informing that the project	
	has been accorded environmental clearance and copies of	
	clearance letters area available with the Department of	
	Environment and climate change, Govt. of Kerala and may	
	also be seen on the website of the authority at	
	www.seiaaKerala.org. The advertisement should be made	
	within 10 days from the date of receipt of the clearance letter	
	and a copy of the same should be forwarded to the office of	
	this authority as confirmation.	
		İ

#### Compliance:

An advertisement in two news paper regarding the accordance of environmental clearance to the quarrying activity was given within stipulated period and the copy of the same was submitted to SEIAA. The copy of newspaper advertisement is provided at **Annexure No. 9.** 

24	A copy of the clearance letter shall be sent by the proponent	Complied
	to concerned Gram 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	
	clearance letter shall also be put on the website of the	
	company by the proponent.	

#### Compliance:

A copy of the environmental clearance letter was submitted to Karukutty Grama Panchayat office on 26/11/2013. Its inward no. is 7405/13. There were no suggestions/representations received while processing the proposal. The environmental clearance order is uploaded in the website of the company and it can be seen in the website <a href="https://www.plantersgroup.com">www.plantersgroup.com</a>.

#### M/S PLANTERS AGGREGATES

25	The proponent shall submit six monthly reports on the	complied
	status of compliance of the stipulated EC conditions	
	including results of monitored data (both in hand 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 the Directorate of	
	Environment and Climate Change, Govt. of Kerala.	

#### Compliance:

The compliance report is being regularly submitted to the Regional Office of MoEF&CC, Govt. of India and State environment Impact Assessment Authority, (SEIAA) Kerala, both in hard copy as well as mail. The result of monitored data is provided in compliance report. The monitored results are attached as **Annexure No. 11, 12 &13.** 

The conditions of the environmental clearance should be	Complied
prominently displayed in a metallic board of 3 ft x 3 ft with	
green background and yellow letters of Times New Roman fond size of not less than 40.	

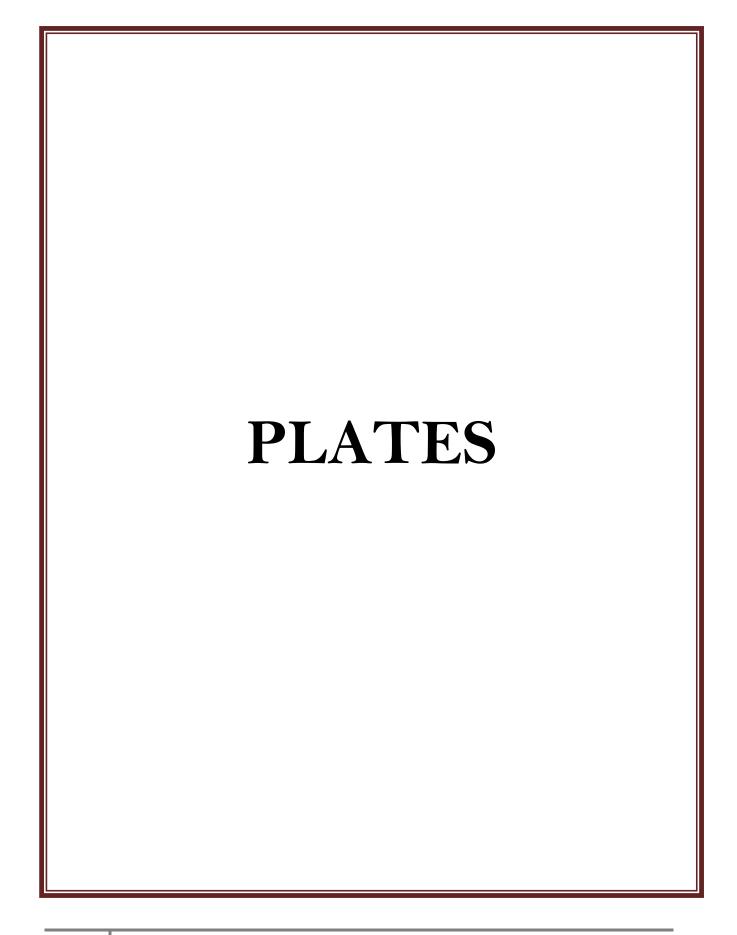
#### Compliance:

The specific conditions of the environmental clearance prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman fond was installed. The photograph showing the sign board containing specific conditions is provided at **Plate No. 14.** 

27	The proponent shall provide affidavit that all the conditions	Complied
	stipulated in the EC shall be scrupulously followed.	

#### Compliance:

An affidavit stating that all the conditions stipulated in the Environmental clearance will be scrupulously followed was submitted to State Environmental Impact Assessment Authority. The copy of affidavit submitted at SEIAA is attached at Annexure No. 10.



#### **PLATE No. 1**



Drainage in the project site Plate No.2



Rain water collection pond exist in the project site



Rain water collection tank **PLATE No. 3** 



The natural vegetation maintained along the roadside

#### PLATE No. 4



Solar street lights installed near to the magazine PLATE No. 5



Sprinklers Installed in the project area

#### **PLATE No. 6**



Benches made by over burden and covered by coir mat PLATE No. 7



Barbed metal wire fencing with a height of 5 meter

**PLATE No. 8** 



Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting

**PLATE No. 9** 



Tarred road to the crusher unit

PLATE No. 10



Over burden managed within the site

PLATE No. 11



Minerals explored with bench system of 5 m width and height

**PLATE No.12** 



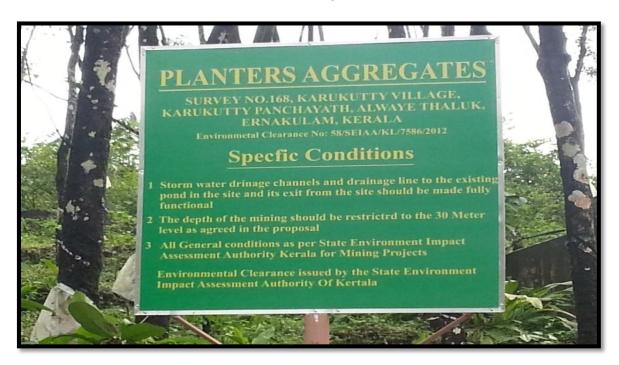
Crusher unit existing in the project site

PLATE No. 13

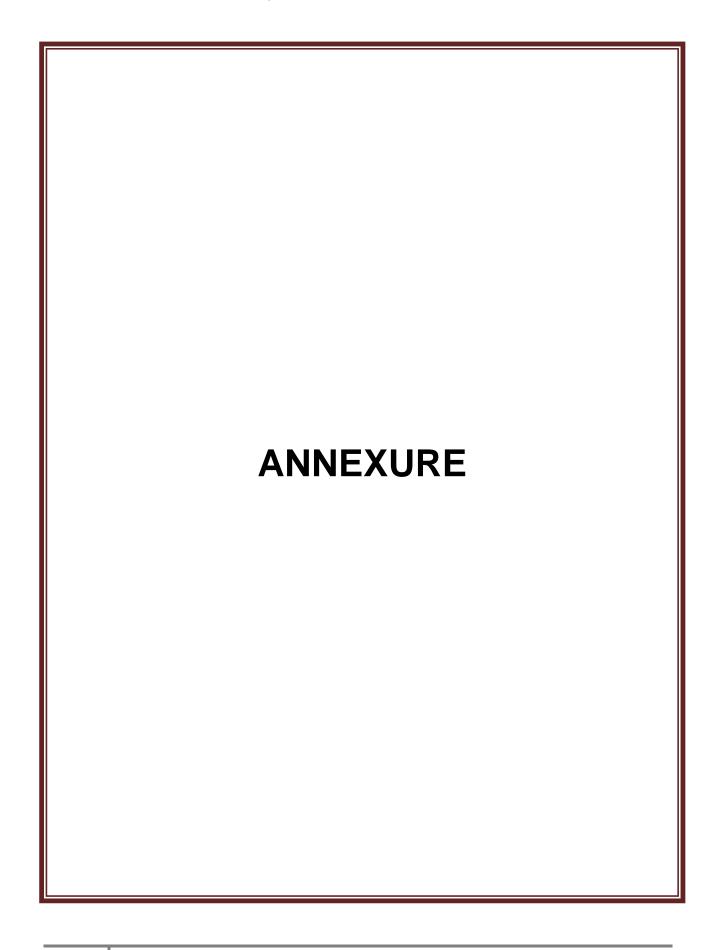


Slit trap to prevent quarry wastes entering in to the main stream

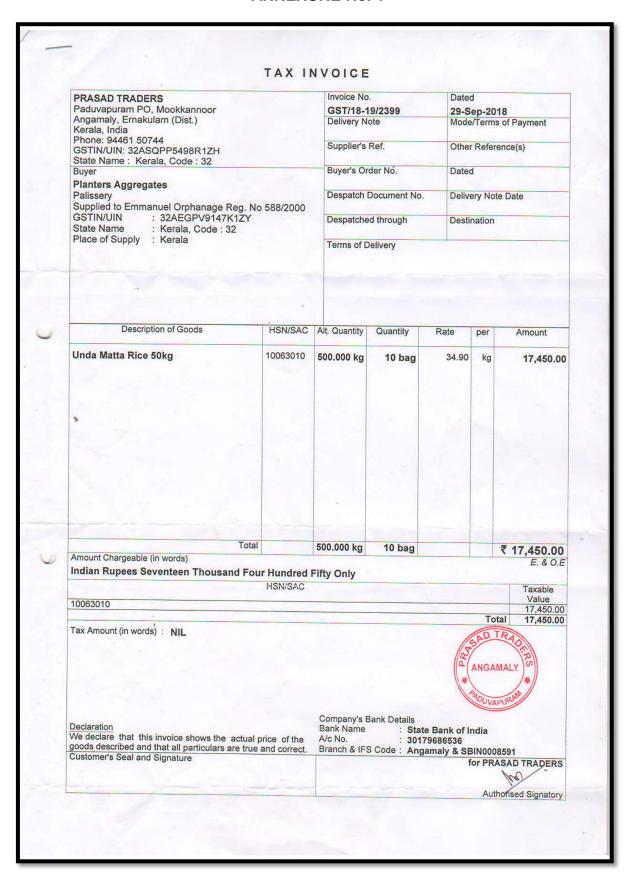
PLATE No. 14



Metallic board described the details of EC



#### **ANNEXURE No. 1**



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Receipts of activates under CSR

### **ANNEXURE No. 2**



## Proceedings of the State Environment Impact Assessment Authority Kerala Present: Dr. A.E. Muthunayagam, Chairman; Prof. (Dr.) K.P. Joy, Member; Sri. James Varghese IAS, Member Secretary

Sub: SEIAA Kerala - Proposed quarry project in Survey No. 168 at Karukutty Village, Karukutty Panchayath, Alwaye Taluk, Ernakulam District, Kerala by M/s Planters Aggregates Environmental Clearance under EIA Notification 2006 accorded - Orders issued

#### Environmental Clearance

No. 58/SEIAA/KL/7586/2012

dated, Thiruvananthapuram 15-03-2013

#### **ORDER**

The Proprietor of M/s Planters Aggregates, vide their application received on 14-11-2012, has sought environmental clearance under the EIA Notification, 2006 for the quarry project at Karukutty Village, Karukutty Panchayath, Alwaye Taluk, Ernakulam District, Kerala. The proposal has been appraised by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amendments, in its 10th meeting held on 26th and 27th November 2012 and also in the 12th meeting held on 2<sup>nd</sup> February, 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form - 1, questionnaire for mining projects, pre-feasibility report, Environment Management Plan and the additional clarifications furnished in response to the observations, the SEAC Kerala recommended environmental clearance to the project.

It is interalia, noted that the project comes under the Category B, Activity 1(a) of Schedule of EIA Notification 2006. The proposed project site falls within 10°16'N and 76°25' E. The proposed project is for quarrying of 2,88,000 TPA of building granite stone from an area of 4.8033 hectare of land. The expected life of mine will be 16 years. The proposed activity involves about 75 % of the pit area for exploring granite building stone. At the end of life of mine, the reclaimed area will be suitably planted and the remaining void at lower levels of excavated pit will be utilized as water storage/ground water recharge and will be utilized for domestic/agricultural purposes. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanised method of mining. The bench height and width proposed is 5 m. The exploitation of mineral is being done from 145-30 m RL in conceptual phase. A total quantity of 24,000 m<sup>3</sup> of top soil from two pits will be removed during the mining operations. The top soil excavated from the quarry shall be dumped separately at predetermined place and subsequently will be utilized in spreading over reclaimed areas for plantation. The top soil will be utilized for green belt development/plantation and will also be utilized for filling the low lying areas or adjacent quarry site. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The daily water requirement of 5 KLD will be met from storm water / bore well. There will be fugitive emissions generated during material handling, transportation, loading, unloading, etc. that are proposed to be managed by regular water sprinkling on haul road, green belt development, avoiding overloading of vehicles and limiting the speed of the vehicles. Excavated material is transported to the crusher located at a distance of 0.15 km from the quarry site for further processing.

The SEIAA considered the proposal in its 13th meeting held on 13th December 2012 and 15th meeting held on 22<sup>nd</sup> February 2013. The SEIAA, after due consideration of the relevant documents and additional clarifications submitted by the project proponent, and in view of the recommendations of SEAC, approved for issuance of Environmental Clearance for the project mentioned above at its 15th meeting held on 22<sup>nd</sup> February 2013. Accordingly, the State Level Environment Impact Assessment Authority (SEIAA) Kerala constituted by Govt. of India vide Notification No. S.O. 2484(E) dt.3-11-

Page 1 of 4

2011 of Ministry of Environment and Forests, Govt. of India, published as Gazette extraordinary No. 2074 on 3-11-2011, hereby accord necessary Environmental Clearance for the above project as per powers vested with it under the provisions of Environment Impact Assessment Notification - 2006 and subsequent amendments and also under the provisions made in the O.M. No. L-11011/47/2011-IA.II(M) dated 18th May 2012 of the Ministry of Environment and Forests, Government of India, and further subject to strict compliance of the following specific conditions, and the general conditions contained in the Annexure, which shall also form a part of this document.

- 1. Storm water drainage channels and drainage line to the existing pond in the site and its exit from the site should be made fully functional.
- 2. The depth of mining should be restricted to the 30 m level as agreed in the proposal.

Compliance of the above conditions will be monitored by the Directorate of the Department of Environment and Climate Change, Government of Kerala or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Government of India located at Bangalore. Necessary support for entry and inspection should be provided by the project proponent to the staff of the Directorate and Ministry for monitoring purposes.

The given address of correspondence of the Authorized Signatory of the project is:- Mr. Saji Vadakkekara, Proprietor, M/s Planters Aggregates, Palissery, Ezhattumugham P.O., Ernakulam, Kerala - 683577; Telephone No: 0484-2439166, 2439167; E-mail: plantersgroup@yahoo.com

Agency with NABET accreditation for EIA is:- M/s Enkay Enviro Services, 24-B, Basement, Dadu Marg, Gopal Bari, Jaipur-302001; Tel. No. 0141-2363996/4023996; Fax No: 0141-5118996; E-mail: info@enkayenviro.com

> James Varghese IAS Member Secretary, SEIAA and Principal Secretary to Government **Environment Department**

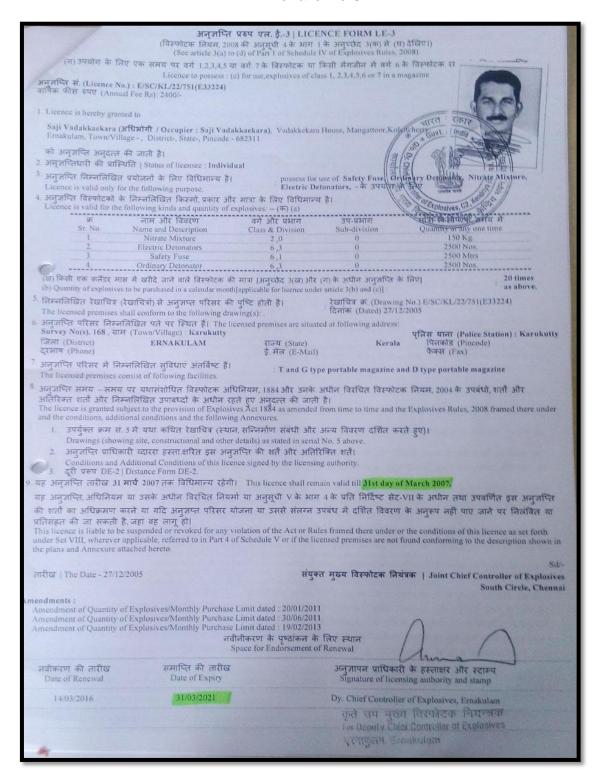
Mr. Saji Vadakkekara Proprietor M/s Planters Aggregates Palissery, Ezhattumugham P.O. Ernakulam, Kerala – 683577.

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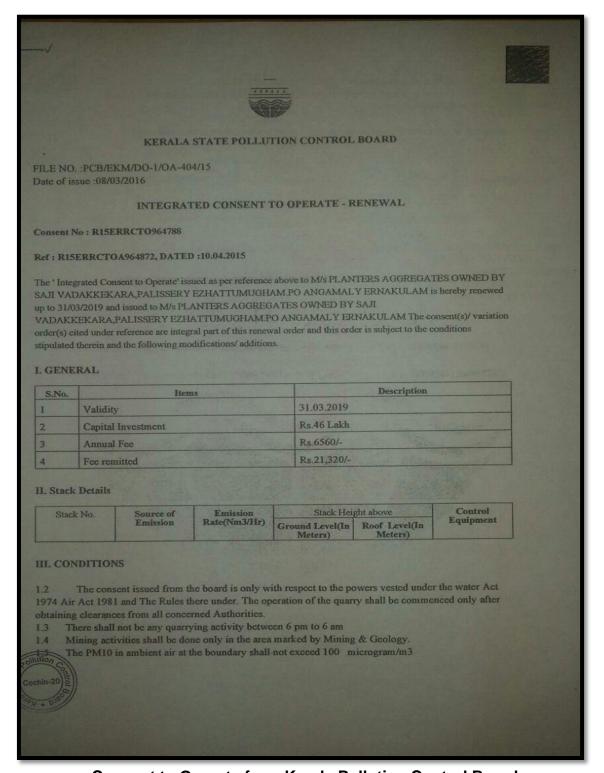
- The Principal Secretary, Environment Dept., Government of Kerala, Secretariat
- The Director, Dept. of Environment and Climate Change, Govt. o.f Kerala, Tvm 24. 2.
- IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
- MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034
- Chairman and Members of SEIAA Kerala
- Chairman, SEAC Kerala
- Website uploading
  - Stock file

Page 2 of 4

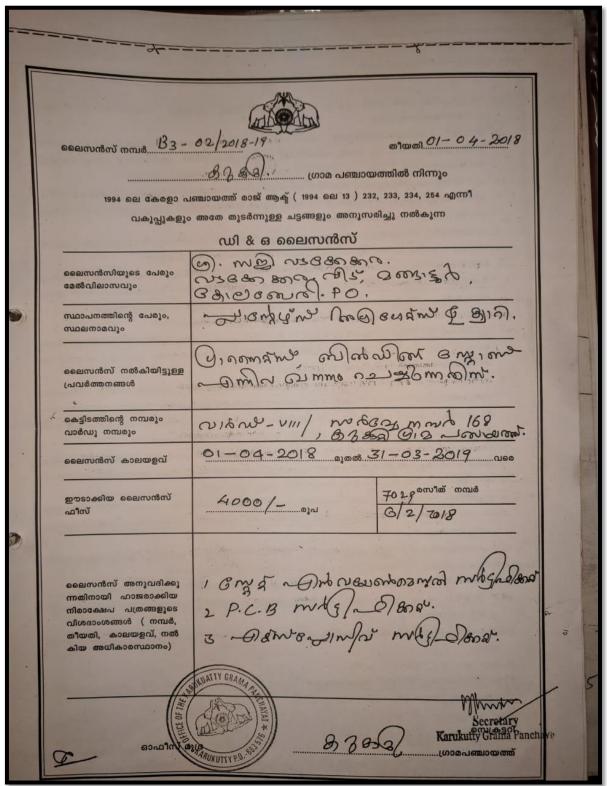
### Annexure No.3



License to possess and use of Explosives



**Concent to Operate from Kerala Pollution Control Board** 



**License from Gram Panchayat** 

### **ANNEXURE No. 6**

PROCEEDINGS OF THE DIRECTOR OF MINING AND GEOLOGY

Mines and Minerals - Minor Wirerals - Granite Building Stone-Quarrying lease to Shri, Saji Vadakkekara, Vadarkekara House, Mangattoor, Kolenchery P.G., Ernakulam- 682 311 - sanction - orders issued

- Ref : 1. Application dated 27/9/2010 from Shri, Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., Ernakulam-682 311
  - Letter No. DOE/4555/E2/2010 dated 29/11/2010 from the Geologist, District Office, Ernakulam
- Kerala Minor Mineral Concession Rules, 1967

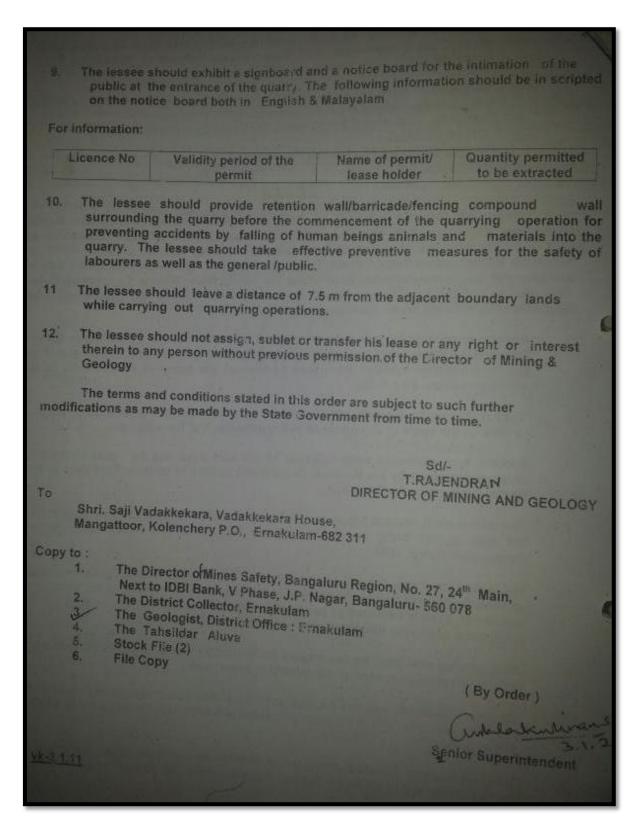
No. 660/2010-11/9439/M3/2010

Dated, Thiruvananthapuram, 3/1/2011

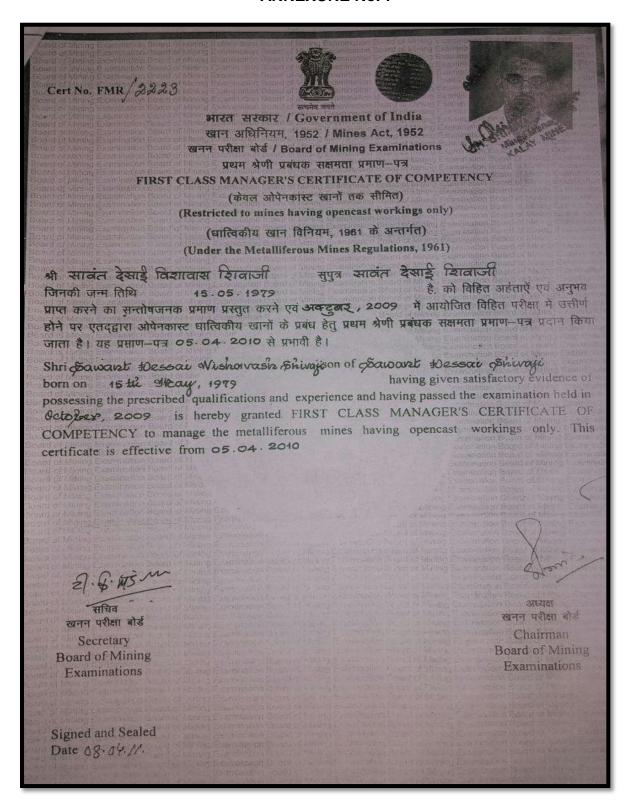
#### ORDER

A quarrying lease is Granted to Shri. Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., Ernakulam-682 311 to quarry Granite Building Stone over an area of 5.8736 hectares of patta land comprised in Survey No. 168 of Block No. 1 of Karukutty Village, Aluva Taluk, Ernakulam District for 10 (Ten.) years from the date of execution of the quarrying lease deed under the Kerala Minor Mineral Concession Rules, 1967 and as per the Survey map issued by the Tahsildar Aluva and submitted by the applicant subject to the under mentioned conditions.

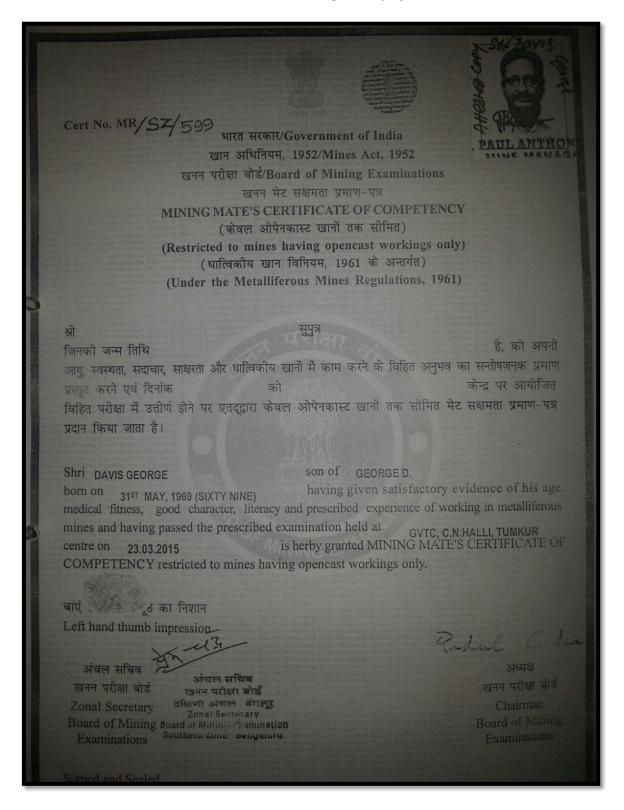
- Royalty is payable to Government as per Rule 29(1)(c) of the Kerala Minor Mineral Concession Rules, 1967 in respect of minor mineral quarried and moved out of the quarry subject to revision from time to time on the basis of amendments to the schedule I of the said Rules.
- Dead rent is realisable under 29(1)(d) of the said rules subject to revision from time to time on the basis of amendments to the schedule II of the said rules.
- Surface rent realisable under 29(1)(e) of the said rules will be equal to the land revenue assessed by the Revenue Department subject to revision from time to time
- The lessee shall execute a quarrying lease deed within a period of three months from the date of this order in form 'H' as per Rule 32 of the Kerala Minor Mineral Concession Rules, 1967.
- 5. The lessee shall also deposit an amount of Rs. 1000/- (Rupees One Thousand only) as security deposit for the observance of the terms and conditions of the lease commence quarrying operation only after the deed is executed.
- The quarrying area shall be demarcated and boundary stones fixed at the leases's
  expenses before execution of the quarrying lease deed.
- The leasee shall not win and dispose any type of dimension and decorative stones
  from the area over which the quarrying lease has been sanctioned on the strength
- The production of Granite Building Stone from the area covered under this grant shall be restricted to 50, 000 M.T( Fifty thousand only) per year during the tenure



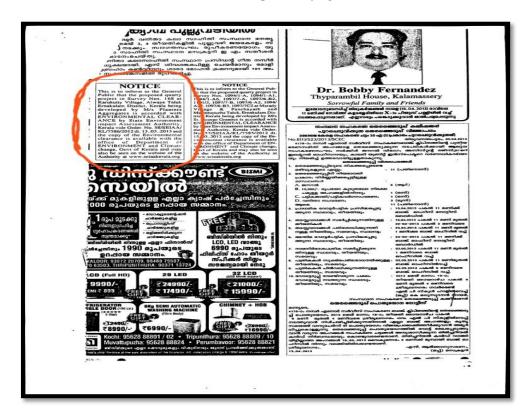
Lease order from Directrotre of Mining and Geology

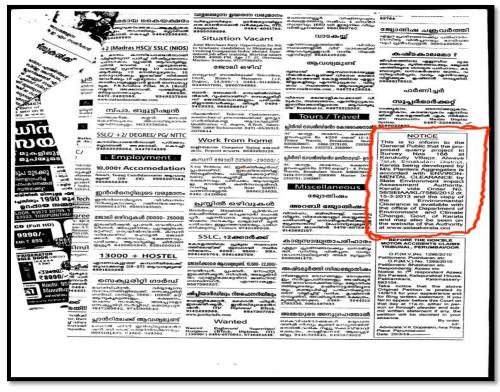


Certificate of First class manager

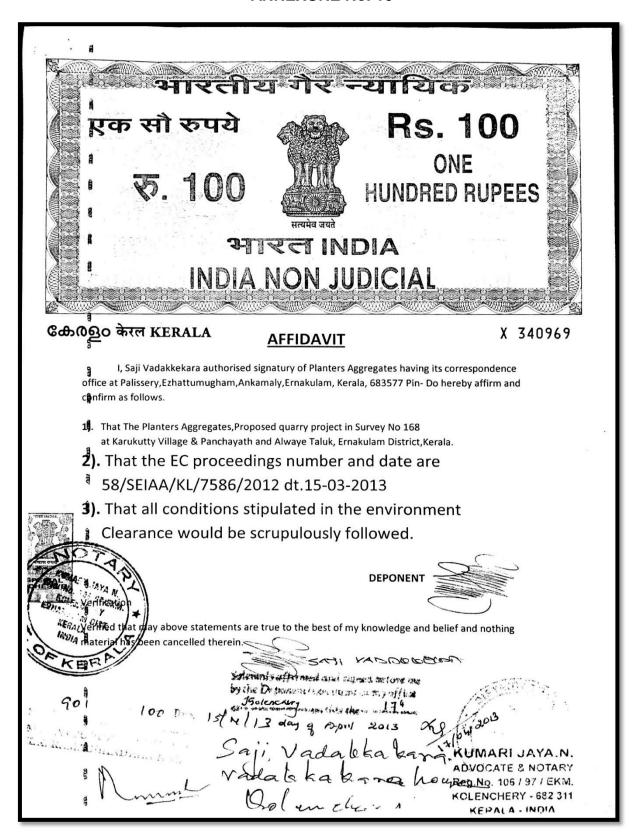


**Certificate of Mining mate** 



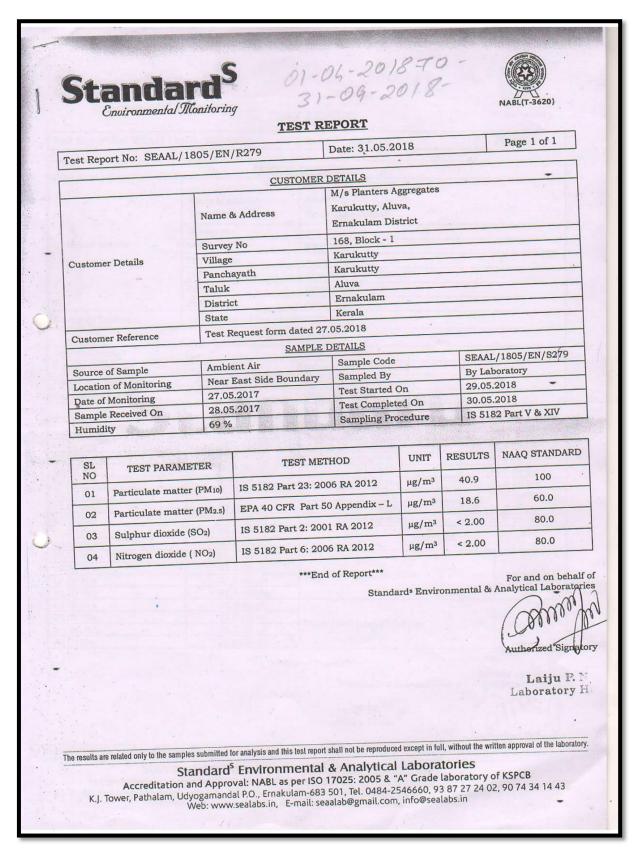


Advertisement in two news paper



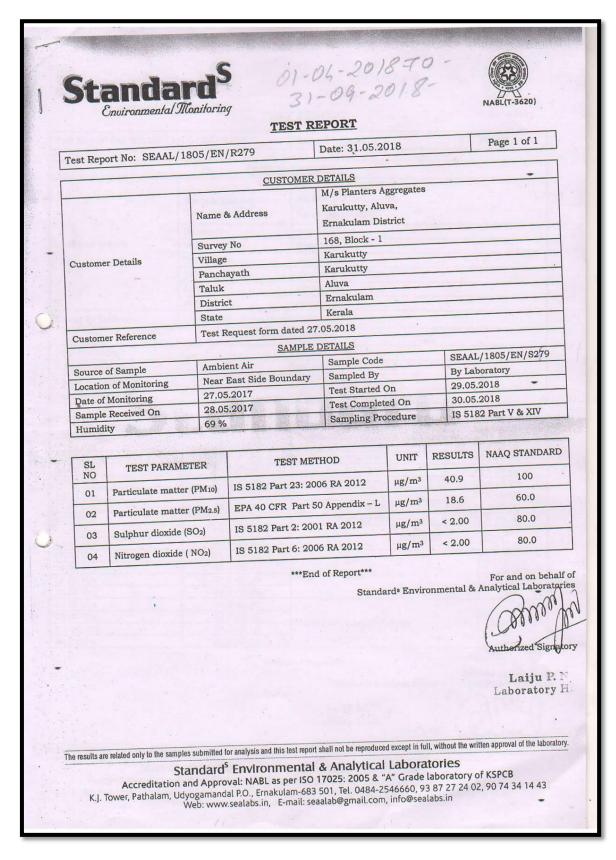
**Affidavit** 

### **ANNEXURE No.11**



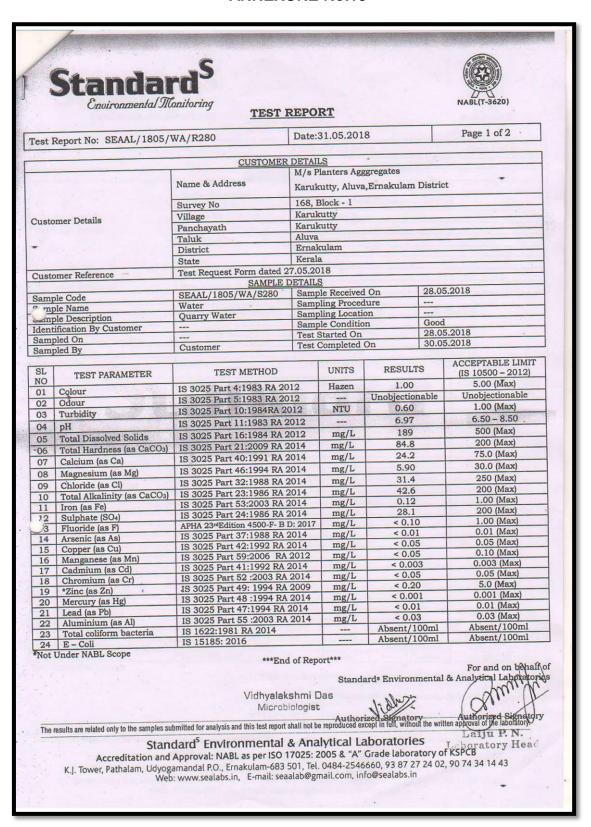
# Result of ambient sound level

### **ANNEXURE No.12**



### Result of ambient air

### **ANNEXURE No.13**



# **Result of Quarry water**