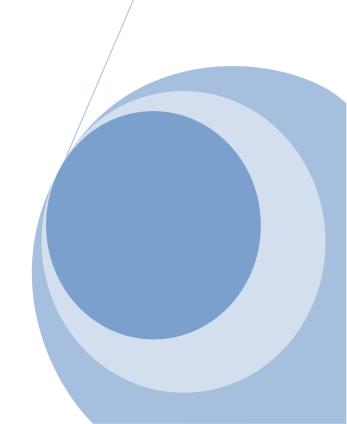


October 2017 - March 2018

M/S PLANTERS AGGREGATES

Ernakulam District

Kerala





Dt. 10-07-2018

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 of M/s Planters aggregates Quarry project is situated at Karukutty Village & Panchayath, Alwaye, Ernakulam District, Kerala. - Compliance Report - Second 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. As per the condition stipulated in EC order, the compliance report of Second half (October 2017 – March 2018) to the specific and general conditions of the Environment Clearance order and monitoring reports are enclosed.

Thanking you,

Yours respectful

For M/s Planters aggregates

THE STATE OF THE S

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: 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**

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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 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 second half to the specific conditions and general conditions of the Environmental Clearance order for the period of October 2017- March 2018 is being submitted

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	Latitude (N) 10 ⁰ 16' 31.28" N		
	Langitude (E) 700 25' 07 27" E		
Address for	Longitude (E) 76 ⁰ 25' 07.37" E Palissery, Ezhattumugham P.O.,		
correspondence			
	Ernakulam District,		
	Kerala – 683 577 Tel. No. 0484-2439166, 2439167		
	1ei. No. 0404-2439100, 2439107		
Website and E mail ID of	www.plantersgroup.com.		
company	plantersgroup@yahoo.com		
Name, Phone Number &	1. Saji Vadakkekara		
e - mail id of responsible persons	Managing Director 0484-2439166		
persons	plantersgroup@yahoo.com		
	2. Davis George		
	General Manager 9605040050		
	davisgeorgekinattingal@gmail.com		
ı	Main Features		
Total area under	4.8033 hectare		
Environment Clearance			
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 ₁₀ , PM _{2.5} , SO ₂ , NO ₂ 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)		

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 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) 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 9⁰59'21.50 to 9⁰59' 12.22" Latitude (N) and 76⁰37'20.43" to 76⁰37'06.07"(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

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.**

02	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:

Water is valuable natural resources, to conserve the rain water the proponent has developed rain water harvesting pond in the project site. Rain water from entire mining area has been collecting in the existing pond which is situated at the lowest level of project area through natural channels and drainages. Two concrete tanks are also used for collecting rain water. Rain water is mainly used for gardening, wetting of roads, Washing of sand and splashing 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 filed	complied
	by the proponent should be formed and made functional.	

Compliance:

The Environmental Monitoring Cell (EMC) has formed with Mr. Saji Vadakkekara (proprietor of Planters Aggregates) as head of the monitoring cell and made functional. The EMC meeting convenes once in two months to evaluate and monitor the specific and general conditions stipulated in the Environmental Clearance (EC) order. 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
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 the	Being
	tarred road and open parking areas, if any, inclusive of	complied
	approach road and internal roads.	

Green belt is an important component in the mining sector. To reduce air and noise pollution, the project proponent has planted avenue trees along either side of the road and open parking areas. There are natural vegetation including trees, shrubs and climbers are presents in the project area. The project proponent is intending to plant more saplings along the road side and parking area, where the vegetation is less. The name and family of flora is given below in **Table Number 2.** The photographs showing the natural vegetation is attached at **Plate No. 3.** The project is intending to plant native species in the project site.

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

04	The	project	shall	incorporate	devices	for	solar	energy	Complied
	gene	ration an	d utiliz	ation whereve	r possible).			

As part of energy conservation, the project proponent has installed solar street lights in the project site near to the office and magazine area. 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:

The project splashes the haulage road and critical areas with the help of vehicles in regular intervals to arrest dust emissions from the road while transportation of materials. The sprinklers are also installed in and around the crusher unit. The photographs showing the effective utilization of sprinklers in the project area is provided in **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 be	Noted
		fully implemented.	

Compliance:

Eco restoration is in 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 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 proponent	Complied
	should be implemented	

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 project proponent has spent more than Rs. Three lakh for the community development in the last six months. The details are given below in the table. The receipts and bills area attached as **Annexure No. 1**. The project is providing food provisions to Emmanuel orphanage in every month.

Table 3 - Details of performed activities under CSR

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Education	Donation		Praveen Ezattumugam	3,000
	Donation for Library	SNDP Palissery	Public	3,000
	Donation	OLPHSchool, Edakunnu	Students	2,000
	Donation	Pallisery School	Students	25,032
Arts, Sports & Festival	Donation For Festival	Desavilakku Maholsavam	Public	440
	Donation For Sports	Camora Arts & Sports Club, Palissery	Public	5,500
	Donation For Festival	Desavilakku Maholsavam, Palissery	Public	15,000
	Donation For Festival	Desavilakku Maholsavam	Public	1,000
	Donation For Festival	Karamattam St. George Kappela	Public	3,000
	Donation For Festival	St. George Church	Public	2,000

	Donation For Festival	Moonurpilly Bagavati Sastha Shetram	Public	3,000
	Donation For Arts	Angamaly Edu.Sub- District	Public	10,000
	Donation	S.N. Arts&Sports Club, Paduvapuram	Public	2,500
	Donation For Festival	St. Alphonsa Kappela	Public	10,000
	Donation	Baladina goshayathra, Thuravoor	Public	5,000
	Donation	Santa Night 2018	Public	500
	Donation For Festival	Sreesubramaniya Badrakalishetram, Palissery	Public	20,300
Health	Donation for Treatment		Mani Kumbalatham	1,000
	Donation for Treatment		Thressia Antony	2,500
	Donation for Treatment		Thomas Njaliath	500
	Donation for Treatment		MO George Menacheri	500
	Donation for Treatment		Ammini Angamaly	2,000
	Donation for Treatment		Eluvathingal Varghese	1,000
	Donation for Treatment		Dhanjayan CM	500
Infrastructure Development	Donation For House Construction		Sadeeshan MK, Karamattam	9,170
	Donation For House Construction		Chandran CK, Krammatam	2,000
	Donation For Road Construction		Balaji Road	14,000
	Donation For House Construction		Radheessh ED	1,600
	Donation For House Construction		Maliyinmel kunj	2,000

	Donation For House Construction		Ayyapankutti Karamattam	8,000
	Donation For House Construction		Kunjappan, Enasseryil	4,800
	Donation For House Construction		Usha Ramakrishnan	4,200
	Donation For Temple Construction		Prasanth Pinambaran, Malayatoor	4,700
	Donation For House Construction		Kuttapan Kurumban	4,500
	Donation For building Construction		Velayudhan Mangatti	6,600
	Donation For House Construction		Jinto Antony,Palissery	7,800
	Donation For House Construction		Madhavan Perattu	4,800
	Donation For House Construction		KM Asokan, Pallisery	4,800
	Donation For House Construction		Gopi Ambattuparambil	4,800
	Donation For House Construction		Sahadevan Ennaserryil	4,800
	Donation For House Construction		Aji PS, Padinjatti	2,000
	Donation For Temple Construction		Sree Ayyappa shetram,Ezattumugam	1,650
Social	Donation for Funeral		Uma Karugappalil	5,000
	Donation	Kerala Today	Public	1,000

Donation	Janasree susthira vikasna mission, Karukutty	Public	10,000
Donation for Charitable Society	St. Vincent De Paul society	Public	12,500
Donation for Charitity		Emmanuel Orphanage	1,11,000
Donation	Journalists Media Workers Association	Public	500
Donation	Newspaper Welfare Association, Angamaly	Public	500
Donation for Charitity	Navajyoti Charitable Society	Public	500
Donation	Educational Service Society Of India	Public	750
	Total		3,53,242

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.	

To demarcate the lease area, the project proponent has installed barbed metal wire fencing with a height of 5 ft. around the project site where Environmental Clearance and lease obtained. This fencing can also prevent the falling of animals/ human/dumping of garbage's etc, in to the mining area. 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.	

As per the stipulation of Explosive department, the project has installed warning alarm in the quarry site. This alarm can intimate the general public that the blasting is going to happen. 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 the	complied
	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.**

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

To ensure safety of labours and living creatures, the project is maintaining the height of the bench not exceed 5 meters and width not less than 5 meter. 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.** The photograph showing the height and width of benches is attached at **Plate No. 11.**

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

Compliance:

The project proponent is using ordinary/electric delayed detonator. The blasting is under the supervision of qualified person. The new technology of delayed blasting can reduce the incident of fly rock. Blasting during unfavorable weather conditions will be avoided. During blasting it will maintain optimum delay sequence and stem to column ratio to minimize the fly rock distance. There is no accident due to fly rock reported in this mine, therefore mats are yet to use.

14	Mining depth should not exceed beyond 40m, unless otherwise Will						Will	be				
	specifies	or	not	below	the	level	of	nearest	stream	bed	complied	k
	whicheve	r is I	less.									

Compliance:

Mining depth will not 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				

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 SEIA	Complied
	that eco-restoration including the mine closure plan shall b	е
	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.

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

To catch the storm water, the proponent has constructed garland drain around the project site. This drain leads to the rain water collection pond, which is situated at the lowest portion of the project site.

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 approvals required for the quarrying activity is obtained. The copy of the approvals obtained is provided at **Annexure No. 2, 3, 4, 5 & 6**

Table 4 - The details of statutory approvals

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
"Consent to Operate"	Kerala State Pollution Control Board	File No. PCB/EKM/DO- 1/OA-404/15 Dated : 08/03/2016

Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	58/SEIAA/KL/7586/2012 Dated: 15/03/2013
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/751(E33224) Dated : 14/3/2016
License for quarry operations	Karukutty Gram Panchayat	B3-02/2018-19 Dated:1/04/2018
Lease order	Directorate of Mining and Geology	660/2010- 11/9439/M3/2010 Dated : 3/1/2011

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

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.

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

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.	
	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

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. 09.**

A copy of the clearance letter shall be sent by the proponent 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 www.plantersgroup.com.

The proponent shall submit six monthly reports on the 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.

complied

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.**

26	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.**





Drainage in the project site Plate No.2



Rain water collection pond exist in the project site



Rain water collection tank





The natural vegetation maintained along the roadside



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



Sprinklers Installed in the project area



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



Barbed metal wire fencing with a height of 5 meter



Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting



Tarred road to the crusher unit PLATE No. 10



Over burden managed within the site



Minerals explored with bench system of 5 m width and height **PLATE No.12**



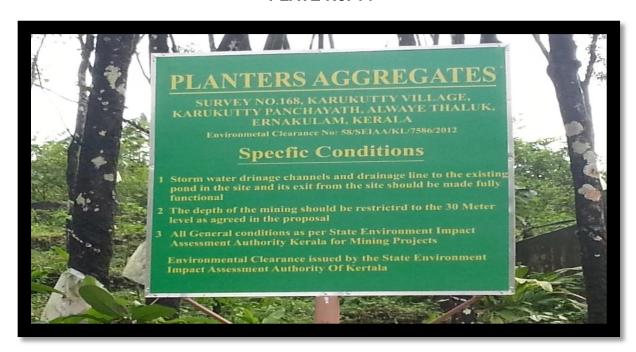
Crusher unit existing in the project site

PLATE No. 13

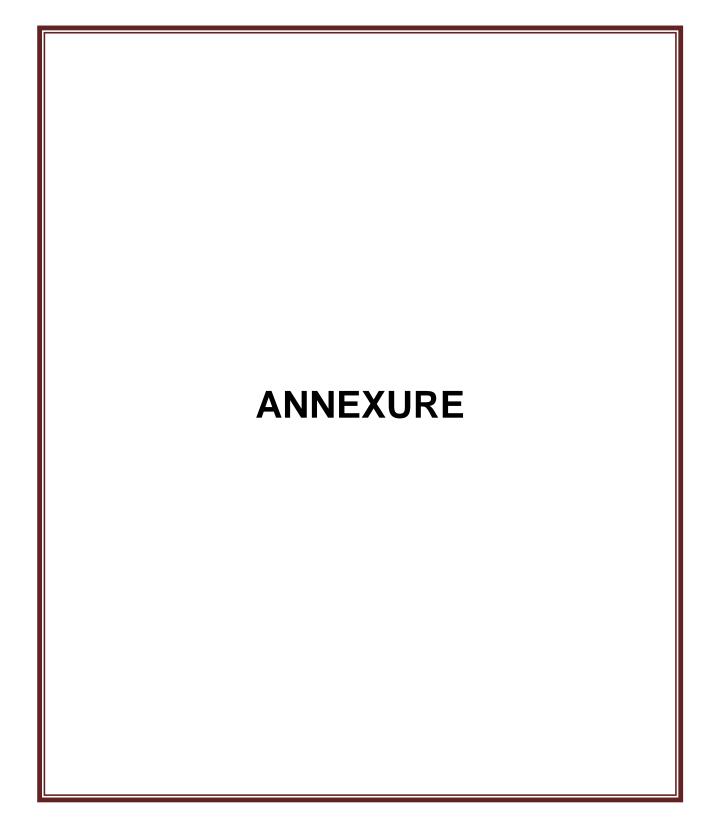


Slit trap to prevent quarry wastes entering in to the main stream

PLATE No. 14



Metallic board described the details of EC





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Receipts of activates under CSR



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 2nd 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 m3 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 22nd 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 22nd 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**

To

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

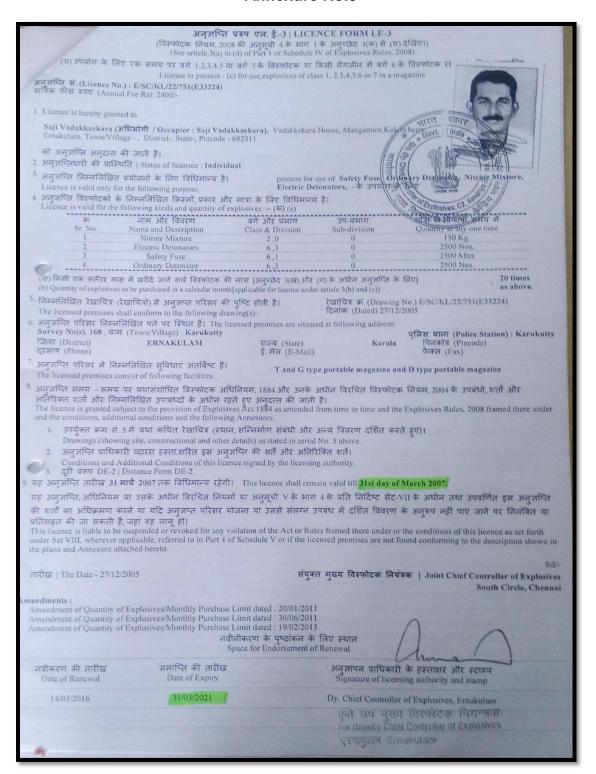
Copy to:

- 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

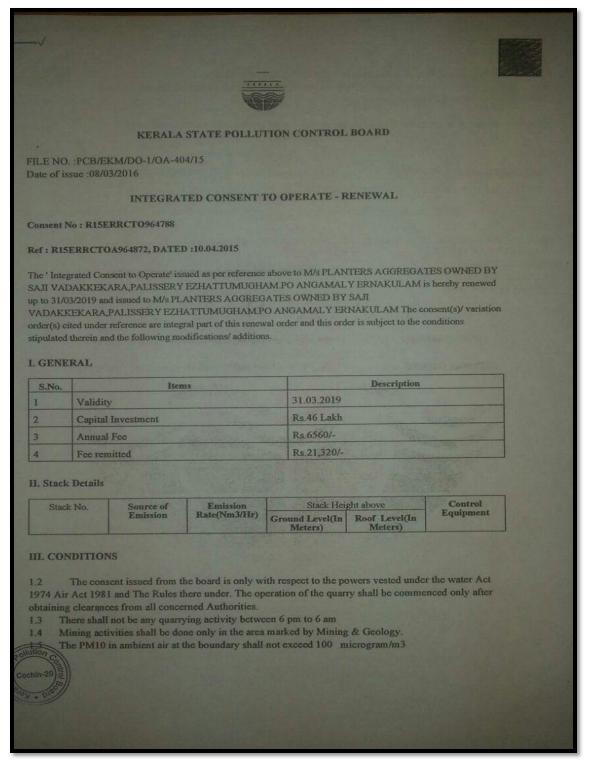
Page 2 of 4

EC order

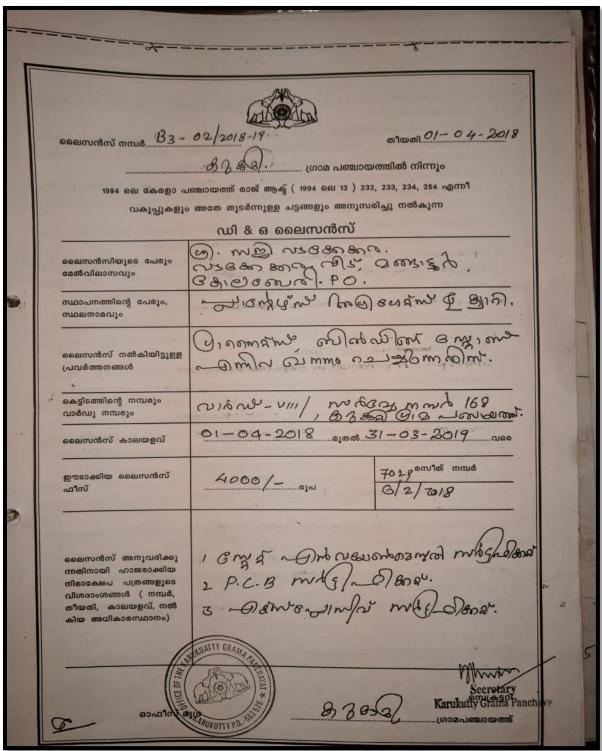
Annexure No.3



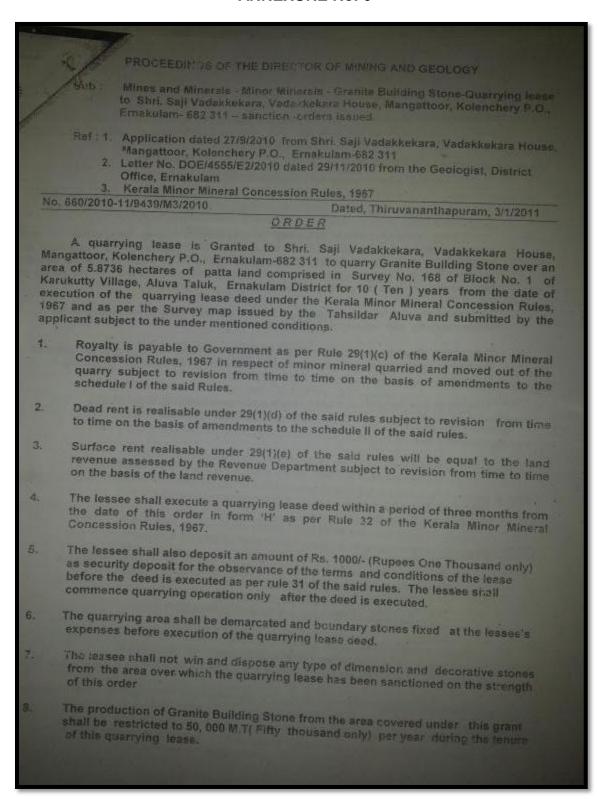
License to possess and use of Explosives

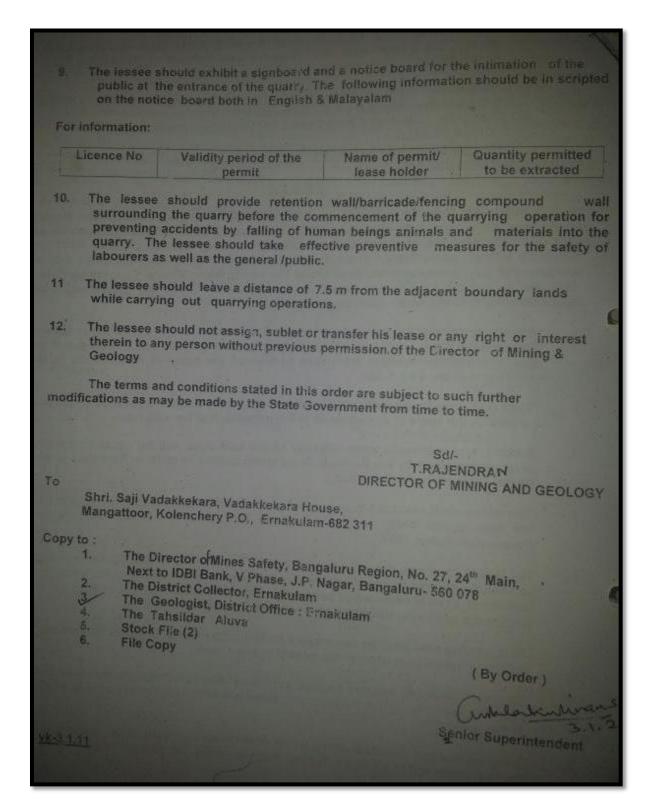


Concent to Operate from Kerala Pollution Control Board

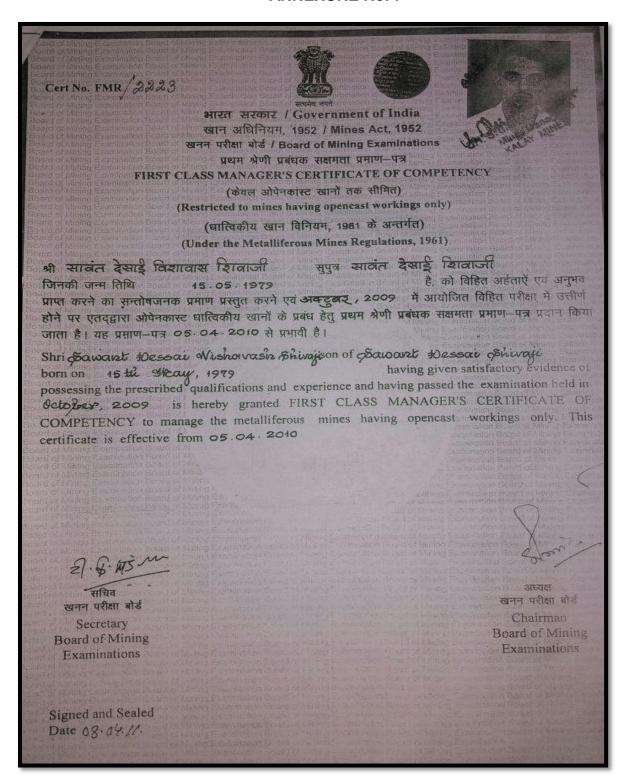


License from Gram Panchayat

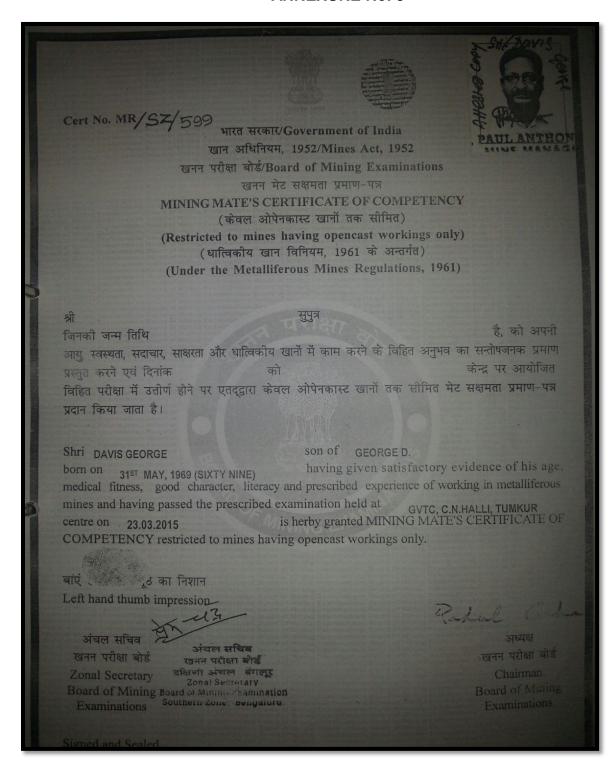




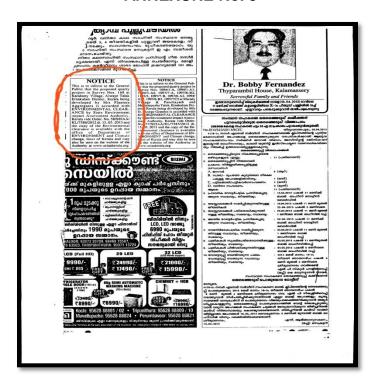
Lease order from Directrotre of Mining and Geology

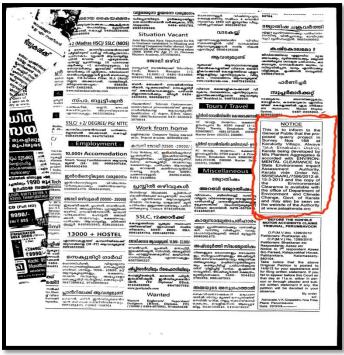


Certificate of First class manager

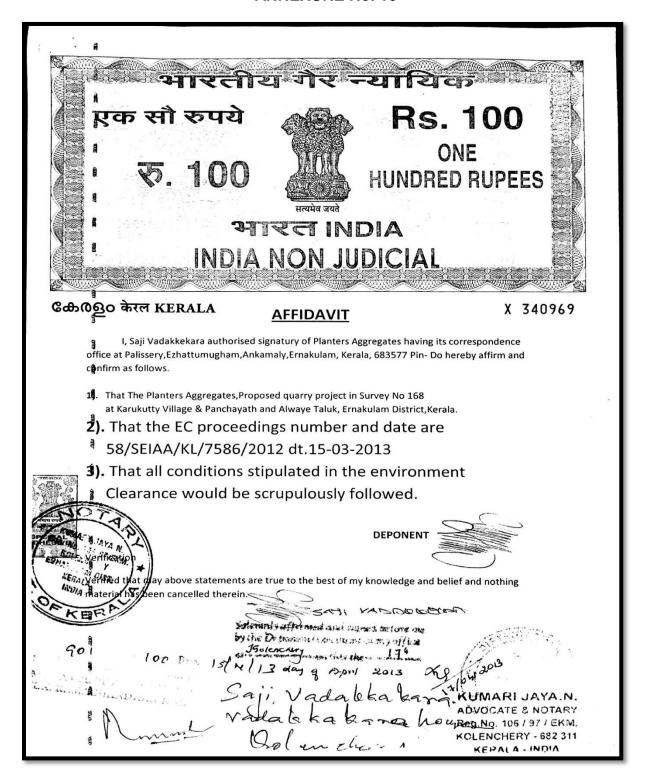


Certificate of Mining mate

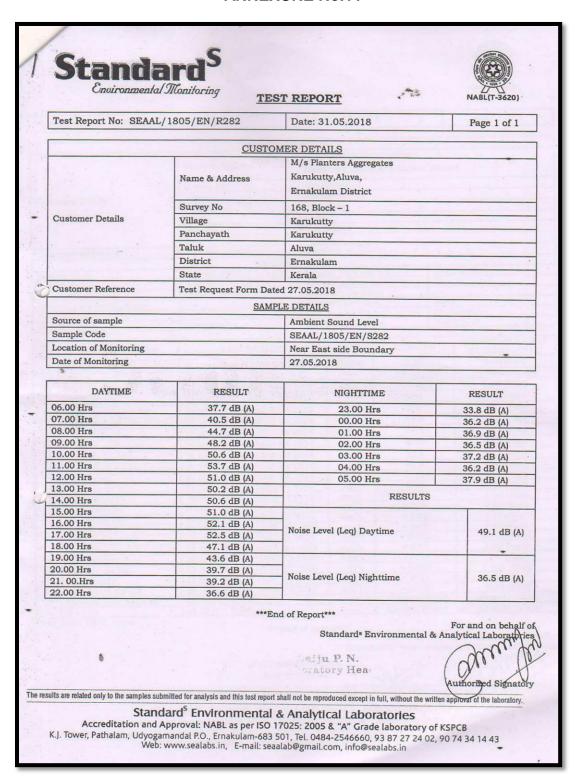




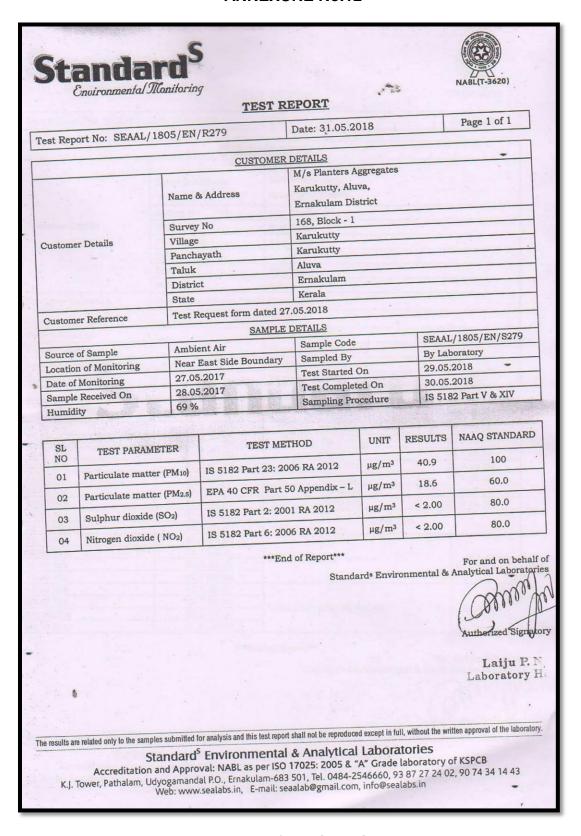
Advertisement in two news paper



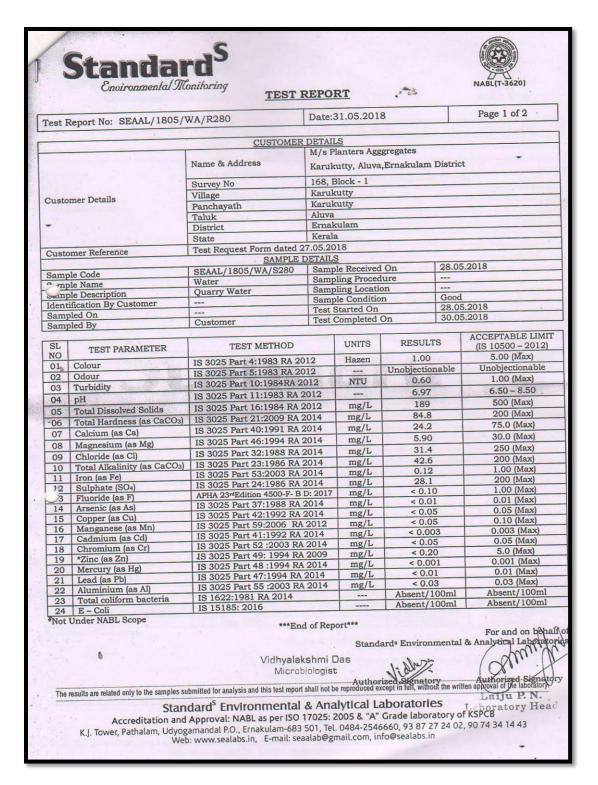
Affidavit



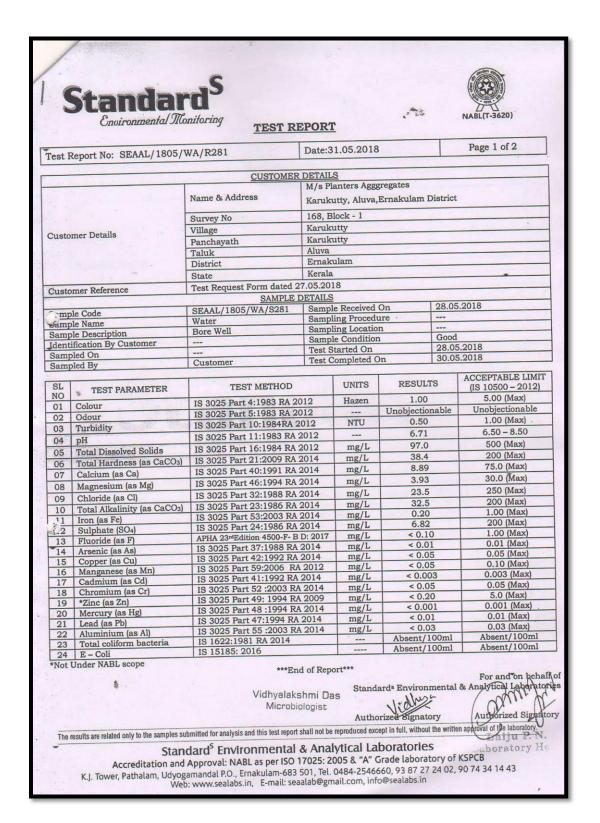
Result of ambient sound level



Result of ambient air



Result of Quarry water



Result of Drinking water