

**COMPLIANCE REPORT
TO
THE CONDITIONS
OF**

**ENVIRONMENTAL CLEARANCE ORDER
NO: 58/SEIAA/KL/7586/2012**

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.**

(July - December, 2015)

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INTRODUCTION

M/s Planters aggregates Quarry project 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 15.13.2013. Six monthly compliance reports to the conditions of the environmental clearance are to be submitted as part of compliance. The compliance report to the specific conditions and general conditions of the Environmental Clearance for the period of July 2015 – December 2015 is being submitted.

COMPLIANCE REPORT

(SPECIFIC CONDITIONS)

PART A

PART - A – SPECIFIC CONDITIONS**Condition I**

The 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.

Compliance:

The storm water from entire project area is channeled to the existing pond in the site through well maintained channels and drainage lines. The project made it sure that the storm water exit from the site is without quarry wastes. The storm water drainage and its exit from the site are fully functional at all the time. The photographs showing the rain water collection pond in the project area is attached at Plate No. 1.

Condition II

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

Compliance:

In the conceptual phase of quarry project, the exploration of mineral is from 145 – 30m RL. Therefore the mining depth will maintain as 30 m as agreed in the proposal.

COMPLIANCE REPORT

(GENERAL CONDITIONS)

PART B

PART – B – GENERAL CONDITIONS**Condition I**

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

Compliance:

The Rain Water Harvesting (RWH) system is implemented and properly maintained in the project area. Rain water from entire land area is collected in the existing pond which is situated in the lowest level of project area through channels and drainages. Rain water is mainly used for irrigation purpose, watering of plants, wetting of roads and sprinkler system for contain dust emission. Two concrete tanks are also used for collecting rain water and its efficient utilization. The photograph showing the rain water collection pond and tank in the project area is attached at Plate No. 1.

Condition II

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

Compliance:

An Environmental Monitoring Cell (EMC) was formed with Mr. Saji Vadakkekara (proprietor of Planters Aggregates) as head and made functional. Meeting of monitoring cell is arranged every month and discussed the status of the compliance of the specific and general conditions contained in the Environmental Clearance (EC) order. As part of monitoring, the sound levels, ambient air and water are monitored through a NABL accredited laboratory and the monitored results are well within the permissible limits. The results are given at annexure No. 11, 12, & 13. The details of monitoring cell are given below.

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

Sl. 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	Kamalkanth
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

Condition III

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.

Compliance:

There is natural vegetation including trees, shrubs and climbers in the sides of the tarred road and open parking areas. The name and family of flora is given below in table number 2. The project is intending to plant suitable avenue trees along either side of the tarred road and open parking areas, where there is less vegetation. The photographs showing the natural vegetation is attached at Plate No. 2.

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

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

□ Condition IV

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

Compliance:

As part of energy conservation, solar energy generation and utilization the project installed solar street lights near to the office and magazine area. The photograph of the solar street lights is attached at Plate No. 3

Condition V

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

Compliance:

To contain dust emissions, the project installed sprinklers in the sides of service road, on the top and nearby areas of crusher building and the same is using effectively. The photograph of the sprinklers is attached at Plate No. 4

Condition VI

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

Compliance:

The eco- restoration plan will be carried out as per the proposal submitted. The project converted a sloppy land 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 benches covered by coir mat is attached at Plate No. 5

Condition VII

Corporate social responsibility agreed upon by the proponent should be implemented

Compliance:

The project carried out many activities under corporate social responsibility, such as distribution of uniform, treatment support, promotion of sports and culture, aid for constructing houses and toilets, promotion of environment, etc. The project is providing food provisions to Emmanuel orphanage in every month. The details of activities under CSR are given below. The bills and receipts of the same are attached at Annexure No. 2. The photograph of uniform distribution attached at plate No. 6

Table 3 The details of performed activities under CSR

Sectors	Activities	Partners	Beneficiaries	Amount spent in Rs.
Promotion of education	Uniform distribution	Govt. L P School, Palissery	L P Children of Palissery Govt. School	25,172
	Donation	Educational service society of India	Children from economically backward	1,000
Health care	Provide provisions for nutritious food	Nil	Destitute children of Emmanuel home	78,600

	Treatment support	Community based committees	Rajasekaran	250
Promotion of Arts and culture	<i>Vadam vali</i> (Donation)	<i>Nattoruma</i> Club	Community people	3,000
	<i>Desavilakku</i> (Community fest-Donation)	Community leaders	public	10,000
	Cultural programme (Donation)	Cultural center	children	1,000
	<i>Mandalavilakku</i> fest (Donation)	Temple	Public	2,500
	Kerala School Fest (Donation)	Angamali Educational Sub District	School children	2,000
	Christmas programme (Donation)	SNDP Library	Public	3,000
	Fest (Donation)	Temple	Public	3,300
Infrastructure Development	Crusher products for construction of houses/toilets	Nil	Ratheesh Dasan	4,000
	Crusher products for construction of houses/toilets	Nil	Jhonson T P	4,000
Total amount in Rs.				1,37,822

Condition VIII

Barbed metal wire fencing around the mining area shall be 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.

Compliance

To prevent the falling of animals/ human/dumping of garbage's etc, barbed metal wire fencing was installed around the mining area at 5ft height. The photograph of the barbed metal wire fencing is attached at Plate No. 7.

Condition IX

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

Compliance:

Warning alarms installed in the project area. It is working properly prior to the blasting. The blasting time is fixed between 6.00 AM to 6:00 PM. A danger board is also installed which gives information about the blasting time. The photograph showing the danger area, sign board etc are provided at Plate No. 8.

Condition X

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

Compliance:

The project proponent has a crusher unit near to the quarry site in the project land. A well tarred road is maintaining up to crusher unit (2.5 Km) for contain dust emission that may arise during transportation of materials. The access road to the quarry is maintained under sprinkler system to control the dust emission during transportation. This access road did not tar for traveling Hitachi like machines. The photograph is showing the tarred access road, provided at Plate No. 9.

Condition XI

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

Compliance:

The overburden and top soil excavated from the quarry is dumping in to two old quarries as part of reclamation. This portion will be utilized for planting various saplings. The photographs showing overburden materials are managing within the site is attached at Plate No. 5 & 10.

Condition XII

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

Compliance:

The project is maintaining the height and width of benches of the quarry with 5m. The 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.

Condition XIII

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

Compliance:

Mats to prevent fly rock during blasting will be arranged shortly.

☐ Condition XIV

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

Compliance:

The exploration of mineral will be maintained as 30 m as agreed in the proposal. To ensure this, the project appointed second class manager and mining mate. The all activities of these qualified persons will be under the supervision and monitoring of Environment Monitoring Cell.

□ Condition XV

Acoustic enclosures should have been provided to reduce 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:

Acoustic enclosure is provided to reduce sound amplification. The crusher unit is encircled by green belt. The ear plugs are provided to the labours to reduce the health problems. The solid brick covering maintain the noise level as per CPCB standards. 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.

□ Condition XVI

Assurance in the form of affidavit should be given to SEIAA 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 along with the application for Environmental Clearance. The copy of the affidavit is attached at Annexure No. 10.

□ Condition XVII

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

Compliance:

Storm water drains are provided within the lower slopes of project site to channelize the storm water to the storm water collection pond

□ Condition XVIII

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

Compliance:

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 flooded 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 will prevent the passage of waste from the site to the mainstreams. The photograph showing the rain water collection pond in the project area and silt trap arrangement is attached at Plate No. 14

□ Condition XIX

All other statutory clearances should have been obtained as 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 for the project. The copy of the approvals obtained is provided at Annexure No. 1, 3, 4, 5 & 6

Table 4 The details of statutory approvals

Name of the Statutory approval	Name of the Statutory authority	Approval Number & Date
Environmental Clearance order	State Environmental Impact Assessment Authority, Kerala	58/SEIAA/KL/7586/2012 Dated: 15/03/2013
"Consent to Operate"	Kerala State Pollution Control Board	File No. 964872 Dated : 10/04.2015
Explosive License	Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	E/SC/KL/22/751(E33224) Dated : 29/05/2014
License for quarry operations	Karukutty Gram Panchayat	B3.20/14-15 Dated:1/04/2014
Lease order	Directorate of Mining and Geology	660/2010- 11/9439/M3/2010 Dated : 3/1/2011

□ Condition XX

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

Compliance:

Shall be complied.

□ Condition XXI

The authority reserved 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.

Compliance:

Shall be complied.

□ Condition XXII

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.

Compliance:

Shall be complied.

□ Condition XXIII

The project proponent should advertise in at least two local 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.

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. 09.

□ Condition XXIV

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 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.plantergroup.com.

□ Condition XXV

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.

Compliance:

Shall be complied.

☐

Condition XXVII

The conditions of the 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 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 font was installed. The photograph showing the sign board containing specific conditions is provided at Plate No. 15.

☐ **Condition XXVII**

The proponent shall provide affidavit that all the conditions 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 1



Rain water collection pond exist in the project site



Rain water collection tank

PLATE 2



The natural vegetation maintained along the roadside

PLATE 3



Solar street lights installed near to the magazine

PLATE 4



Sprinklers Installed in the project area

PLATE 5



Benches made by over burden and covered by coir mat

PLATE 6



Uniform distribution to school children

PLATE 7



Barbed metal wire fencing with a height of 5 meter

PLATE 8



Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting

PLATE 9



Tarred road to the crusher unit

PLATE 10



Over burden managed within the site

PLATE 11



Minerals explored with bench system of 5 m width and height

PLATE 12



Crusher unit existing in the project site

PLATE 13



The drain line maintained in the project site

PLATE 14



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

PLATE 15



Metallic board described the details of EC

ANNEXURE 1



Proceedings of the State Environment Impact Assessment Authority Kerala

President: Dr. A.E. Mathanapillai, Chairman, Jaj (Dr. K.P. Jey, Member, Sri Arava Varghese IAS, Member Secretary

Subj: 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. 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 approved by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the light 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 - I, 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 intimated, 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° 6'N and 76° 23' E. The proposed project is for quarrying of 2,88,000 TP4 of building granite stone from an area of 4.8032 hectare of land. The expected life of mine will be 6 years. The proposed activity involves about 75 % of the pit area for exploiting 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 mechanized method of mining. The bench height and width proposed is 5 m. The exploitation of minerals 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. 248(E) dt.3-11-

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- (xix) 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.
- (xx) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxi) 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.
- (xxii) 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.
- (xxiii) The project proponent should advertise in at least two local 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 are available with the Department of Environment and Climate Change Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the office of this Authority as confirmation.
- (xxiv) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayats/District Panchayats/Municipality/Corporation/Union 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.
- (xxv) The proponent shall submit site 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 thereat 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 Directorate of Environment and Climate Change, Govt. of Kerala.
- (xxvi) The conditions 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.
- (xxvii) The proponent should provide affidavit that all the conditions stipulated in the EC shall be scrupulously followed.

Sd/-
Member Secretary, SEIAA Kerala

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201) 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-11011/07/2011-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 Vadakkickara, Proprietor, M/s Planters Aggregates, Palissery, Ezhattumangham P.O., Ernakulam, Kerala - 683577. Telephone No: 0484-2439166, 2435167. 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. 0141-2363996/4023396; Fax No: 0141-5111596, E-mail: info@enkanviro.com

(Sd/-) Jeyaraj Varughese IAS
Member Secretary, SEIAA
and Principal Secretary to Government
Environment Department

To
Mr. Saji Vadakkickara
Proprietor
M/s Planters Aggregates
Palissery, Ezhattumangham P.O.,
Ernakulam, Kerala - 683577.

Copy to :

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

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Annexure

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA GENERAL CONDITIONS (for mining projects)

- (i) Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) 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.
- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) The eco-restoration plan submitted with the proposal should be fully implemented.
- (vii) Corporate Social Responsibility agreed upon by the proponent should be implemented.
- (viii) Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that falling of animals/human belongings/dumping of garbage etc. does not happen.
- (ix) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (x) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xiii) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.
- (xiv) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (xv) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provision of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB.
- (xvi) Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (xvii) Gulland drains to be provided in the lower slopes around the core area to channelize storm water.
- (xviii) Debris/silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.


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ANNEXURE 2

Receipts of activates under CSR

Sl. No.		Description of goods	Mts. / Nos.	Rate per Mtr. / No.		Amount	
				Rs.	Ps.	Rs.	Ps.
		Shirting golden-orange colour	100	180	-	18000	-
		Shirting Coffee Brown colour	50	180	-	9000	-
		Suiting Coffee Brown colour	32	280	-	8960	-
						35960	-
		30%				10788	-
TOTAL :						25748	-
Rupees Twenty Five Thousand One Hundred Seventy two only							
Prepared by :				For KERALA STATE HANDLOOM DEVELOPMENT CORPORATION LIMITED			
Checked by :				Authorised Signatory			
ND: Payment should be made in the form of crossed DD, payable to the order of KERALA STATE HANDLOOM DEVELOPMENT CORPORATION LTD. and payable at 'Kannur/Thiruvananthapuram'.							

K.S.R.MILLS
MOOKKANNOOR - 683 577
 Angamaly, Ernakulam Dist., Kerala
 THE KERALA VALUE ADDED TAX RULES 2005 FORM NO. 8
 (For Vat dealers - Manufacturers) [See Rule 58 (10)]



 Telephone : 0484-2615449
 2615781

Tin No : 32150835494
 CST No : 1508C003549
 Consignee

TAX INVOICE CASH/CREDIT

To <u>Planters Aggregates</u> <u>supplied to Immanuel</u> TIN <u>angamaly Reg. No. 583/2000</u> GST Ph. No. Cell No.				Invoice No. : <u>876</u> Date : <u>28/Jul/15</u> Purchase Order No. : Terms of Payment : (If any)			
--	--	--	--	---	--	--	--

Sl. No.	Commodity Code	Commodity/Item	Rate/Kg	No. of bags	Weight of bags	Weight Qtls. Kg	Amount Rs. Ps.
1	2	3	4	5	6	7	8
		<u>Rice</u>	<u>28</u>	<u>8</u>	<u>25</u>	<u>600</u>	<u>15600</u>



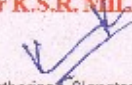
Rupees (in words)	9	Total	15600
Truck No. Name of Driver	10	Grand Total (9+10)	15600

DECLARATION (TO BE FURNISHED BY THE SELLER)

Certified that all the particulars shown in the above Tax Invoice are true and correct in all respects and the goods on which the tax charged and collected are in accordance with the provisions of the KVAT Act 2003 and the rules made there under. It is also certified that my/our registration under KVAT Act 2003 is not subject to any suspension/cancellation and it is valid as on the date of this bill.

Original (For the buyer) Duplicate (For the transport copy)

For K.S.R. MILLS



Authorised Signatory
(With status and seal)

ANNEXURE 3

Page 1 of 1

LICENCE FORM LE-3
(See article 3(a) to (d) of Part I of Schedule IV of Explosives Rules, 2008)

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

Licence No. : E/SC/KL/22/751(E33224)
Annual Fee Rs:2000/-

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

2. Status of licensee : **Individual**

3. Licence is valid only for the following purpose : possess for use of **Safety Fuse, Ordinary Detonator, Nitrate Mixture, Electric Detonators,**

4. (a) Licence is valid for the following kinds and quantity of explosives:

Sr. No.	Name and Description	Class & Division	Sub-division (If any)	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.

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : **20 times as above.**

5. The licensed premises shall conform to the following drawing(s):
Drawing No : E/SC/KL/22/751(E33224) dated : 27/12/2005

6. The licensed premises are situated at following address:
Survey No(s). 168 , Town/Village : **Karukutty**
Police Station : **Karukutty** District : **ERNAKULAM** State : **Kerala**
PinCode : Phone : E-Mail : Fax :

7. The licensed premises consist of following facilities : **T and G type portable magazine and D type portable magazine**

8. 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) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.
(2) Conditions and Additional Conditions of this licence signed by the licensing authority.
(3) Distance Form DE-2

9. This licence shall remain valid till **31st day of March 2007**

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.

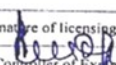
The Date: 27/12/2005

Sd/-
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

Endorsement for renewal of licence:

Date of Renewal	Date of Expiry	Signature of licensing authority
29/05/2014	31/03/2016	 Dy. Chief Controller of Explosives, Ernakulam ഇ. ഉ. പ. മുഖ്യ വിസ്ഫോटक നിയന്ത്രിക For Deputy Chief Controller of Explosives എറണാകുളം / Ernakulam


Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

29-05-2014

License to possess and use of Explosives

ANNEXURE 4

FILE NO : 964872 Date of issue : 10/04/2015



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

Water (Prevention & Control of Pollution) Act, 1974
Air (Prevention & Control of Pollution) Act, 1981

&

Environment (Protection) Act, 1986

TO

M/s M/S.PLANTERS AGGREGATES OWNED BY SAJI VADAKKEKARA
PALISSERY
EZHATTUMUGHAM.PO
ANGAMALY
ERNAKULAM
ALUVA
683577
Taluk: ALUVA
District: ERNAKULAM I

Consent No. : R15ERRCTOA964872 Valid Upto : 31/03/2016

I. GENERAL

1	VALIDITY	31/03/2016
2	Name and Address of the establishment	M/S. PLANTERS AGGREGATES OWNED BY SAJI VADAKKEKARA PALISSERY EZHATTUMUGHAM PO ANGAMALY ERNAKULAM ALUVA 683577 ALUVA ERNAKULAM I
3	Communication	Telephone :0484-2439166 Fax :- E-mail: plantersgroup@yahoo.com
4	Occupier Details	SAJI VADAKKEKARA VADAKKEKARA MANGATTOOR KOLENCHERY PO ERNAKULAM, DIST KERALA 682311 PIN
5	Survey Number	168
6	Village	KARUKUTTY
7	Taluk	ALUVA
8	District	ERNAKULAM I
9	Panchayat /Municipality/ Corporation & Ward	KARUKUTTY PANCHAYATH
10	Category	RED
11	Scale	Small
12	Annual fee	RS.6560/-
	Fee remitted	RS.22960/-
13	Capital Investment (Rs in Lakhs)	46.0
14	Water Consumption	200 l/day
15	Effluent Generation	NA
16	Mode of Disposal of Treated Effluent	NA
17	Effluent Treatment Details	NA
18	RAW MATERIAL	PRODUCTS
	RUBBLES @500 Metric Tonnes	BUILDING STONE @500 Metric Tonnes

2. GENERAL CONDITIONS

- 2.1 This integrated Consent/Authorization is granted subject to the power of the Board to review and make variation in or revoke all or any of the conditions as the Board deems fit.

2.2 This consent, unless withdrawn earlier and subject to condition no.2.1, shall be valid upto : 31/03/2016. For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted to the through the web portal of the Board for Online Consent Management & Monitoring System on or before . Late application will be accepted only with a fine / late fee as applicable.

2.3 The applicant shall comply with the instructions that the Board may issue from time to time regarding the prevention and control of air, water, land and sound pollution.

2.4 No change or alteration of the industrial plant is to be made without the prior written permission of the Board. Any change in the particulars furnished and/or in the identity of the occupier/authorized agent is to be intimated to the Board forthwith.

2.5 If operations are done with backup power, the generator shall have adequate capacity to run all associated pollution control devices.

2.6 In case of process disturbance / failure of pollution control equipments, the respective units shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

2.7 In case of discharge / apprehended discharge of any water / air pollutant or hazardous waste due to any accident or other unforeseen act or event, it shall be immediately intimated to the Board and the consentee / authorisee shall make all possible efforts to mitigate / prevent / remediate the discharge.

2.8 Arrangements for collection, segregation, storage, handling and disposal of solid waste including garbage shall be provided and maintained properly.

2.9 E-waste shall be disposed in an environmentally sound manner. The following details shall be submitted to the Board on or before 31/12 December every year.

Sl.NO.	Particulars of e-waste	Quantity of e-waste disposed in the previous year	Quantity of e-waste proposed to be disposed in the current year	Mode of disposal
1	NA	NA	NA	NA

2.10 . Periodical reports as detailed below shall be submitted to the respective District Office of the Board.

Statutes	Details	Mode of collection and analysis	Periodicity		Form No.
			Analysis	Submission	
NA	NA	NA	NA	NA	NA

2.11 Energy and water conservation measures shall be adopted as far as possible.

2.12 Renewable sources of energy such as solar energy shall be utilized for lighting and heating wherever possible.

3. CONDITIONS AS PER

The Water(Prevention and Control of Pollution)Act, 1974

3.1 In case of generation of trade effluent from the industry, Effluent Treatment Plant (ETP) consisting of treatment units having adequate capacity as listed under item 1.17 shall be functional at all times during the operation of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1)(g) of the Water Act shall also be made along with.

3.2 There shall be easy access to each and every effluent treatment unit and the final outlet for inspection and drawing of effluent samples.

3.3 The characteristics of effluent after treatment shall conform to the following tolerance limits:

Sl.NO.	Characteristics	Unit	Tolerance Limit
1	NA	NA	NA

- 3.4 Water meter shall be fixed to record consumption of water. Separate meters should be fixed if cases of differential rates is claimed for use of water such as cooling/boiler feed, domestic, process where the effluent is easily biodegradable and/or not toxic and process where the effluent is not easily biodegradable and/or toxic.
- 3.5 Suitable facility shall be provided for safe storage and disposal of the sludge generated from the ETP, if any.
- 3.6 Adequate sanitation facilities shall be provided for the employees.

4. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

- 4.1 Following emission control equipments shall be installed and operated whenever emission is made:

SLNO	Source of Emission	Stack Height		Control Equipment
		Above Ground Level	Above Roof Level	
Capacity	Emission Rate[Nm ³ /hr	Unit		

- 4.2 Emission characteristics shall not exceed the following:

SLNO	Parameter	Limiting Standards mg/Nm ³
1	NA	NA

- 4.3 All stacks shall have adequate height and shall have port hole and platform cum ladder to facilitate monitoring of emissions.
- 4.4 Water sprinklers shall be provided to suppress spreading of dust outside the premises. Particulate matter (PM 10 & PM 2.5) at the boundary of the premises shall not exceed the standards applicable to the adjoining area.
- 4.5 Raw materials shall be transported with proper cover or after wetting to prevent spreading of dust during transportation.
- 4.6 There shall be no fugitive emission from the premises.
- 4.7 The sound level measured 1 m outside the boundary of the premises shall not exceed the standards applicable to the adjoining area.
- 4.8 All operations likely to produce dust or noise shall be carried out within appropriate enclosure.
- 4.9 Record of type, quantity and purpose of consumption of fuel, if any, shall be maintained and abstract shall be submitted to the Board along with emission monitoring reports.

5. CONDITIONS AS PER

Hazardous Waste (Management, Handling and Transboundary Movement) Rules 2008.

- 5.1 Hazardous wastes generated, if any, shall be handled as per the Hazardous Waste Management, Handling and Transboundary Movement Rules, 2008.
- 5.2 (i) Activities for which Authorization is granted:

Collection	Transportation
Reception	Storage
Treatment	Reprocessing/Disposal

(ii) Type, quantity and mode of storage/collection/treatment/disposal of hazardous wastes shall be as follows:

SLNo.	Hazardous Waste	Schedule Category	Quantity Tonne/year
Mode of			
Storage		Disposal	

5.3 Records of Hazardous Wastes generated, if any, shall be maintained in FORM-3.

5.4 The occupier shall ensure that the hazardous wastes are transported to authorized recycler/facility in accordance with the provisions of the Rules.

6. ADDITIONAL CONDITIONS

1.No quarrying activities shall be done within 100 m from residences/public building/rivers/Road having regular vehicular traffic.

2.This consent to operate is issued in compliance with judgement dated 18/12/2014 in WP(c)no-25367/2014 and judgement dated 23/03/2015 in WP(c)31148/2014 and 32 other WP(c)s.

3.No Quarrying activities shall be carried out between 6 pm to 6 am.

DATE: 10/04/2015

OFFICE SEAL

Copy To: The Chief Environmental Engineer, Regional Office, Ernakulam

ENVIRONMENTAL ENGINEER
SIGNATURE & SEAL OF ISSUING AUTHORITY
Sebastine Willington
Assistant Environmental Engineer

Consent to Operate from Kerala Pollution Control Board

ANNEXURE 5

<p>നമ്പർ B3-20/14-15</p> <p>1994 ലെ കേരളാ പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതേ ആക്ട്നുതുല്യ ചട്ടങ്ങളും അനുസരിച്ചു കൊടുത്ത</p>	
ലൈസൻസ്	<p>സമുദായ പഞ്ചായത്ത്</p> <p>സമുദായ പഞ്ചായത്ത്</p> <p>Planters Aggregates</p>
ലൈസൻസുള്ളതല്ലെന്ന് ഉറപ്പാക്കിയ പേരും മേൽവിലാസവും	<p>സമുദായ പഞ്ചായത്ത്</p> <p>വടക്കേക്കര (H)</p> <p>Planters Aggregates</p>
എന്താവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	<p>കിരീടം കിരീടം ന്യായനം</p>
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	<p>B1.No.7-168</p>
ലൈസൻസിന്റെ കാലാവധി	<p>2014-15 മാർച്ച് 31</p>
ലൈസൻസ് ഹീസ്	<p>4000 രൂപ - പെസ</p>
റിമാർക്സ്	<p>Rt No: 4000 10454/28/2/14</p>
<p>4/4/14</p> <p>GLM-34 K / 2000</p>	<p>സെക്രട്ടറി</p> <p>Secretary</p> <p>Karukutty Gram Panchayat</p>

License from Gram Panchayat

ANNEXURE 6

PROCEEDINGS OF THE DIRECTOR OF MINING AND GEOLOGY

Sub: Mines and Minerals - Minor Minerals - Granite Building Stone-Quarrying lease to Shri. Saji Vadakkekara, Vadakkekara House, Mangattoor, Kolenchery P.O., 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
 2. Letter No. DOE/4555/E2/2010 dated 29/11/2010 from the Geologist, District Office, Ernakulam
 3. 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 on the basis of the land revenue.
- 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.
- 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 before the deed is executed as per rule 31 of the said rules. The lessee shall commence quarrying operation only after the deed is executed.
- The quarrying area shall be demarcated and boundary stones fixed at the lessee's expenses before execution of the quarrying lease deed.
- The lessee shall not win and dispose any type of dimension and decorative stones from the area over which the quarrying lease has been sanctioned on the strength of this order
- The production of Granite Building Stone from the area covered under this grant shall be restricted to 50, 000 M.T (Fifty thousand only) per year during the tenure of this quarrying lease.

9. The lessee should exhibit a signboard and a notice board for the intimation of the public at the entrance of the quarry. The following information should be inscribed on the notice board both in English & Malayalam

For information:

Licence No	Validity period of the permit	Name of permit/ lease holder	Quantity permitted to be extracted

10. The lessee should provide retention wall/barricade/fencing compound wall surrounding the quarry before the commencement of the quarrying operation for preventing accidents by falling of human beings animals and materials into the quarry. The lessee should take effective preventive measures for the safety of labourers as well as the general public.

11. The lessee should leave a distance of 7.5 m from the adjacent boundary lands while carrying out quarrying operations.

12. The lessee should not assign, sublet or transfer his lease or any right or interest therein to any person without previous permission of the Director of Mining & Geology

The terms and conditions stated in this order are subject to such further modifications as may be made by the State Government from time to time.

Sd/-
T. RAJENDRAN
DIRECTOR OF MINING AND GEOLOGY

To
Shri. Saji Vadakkekara, Vadakkekara House,
Mangattoor, Kolenchery P.O., Ernakulam-682 311

Copy to :




1. The Director of Mines Safety, Bangaluru Region, No. 27, 24th Main, Next to IDBI Bank, V Phase, J.P. Nagar, Bangaluru- 560 078
2. The District Collector, Ernakulam
3. The Geologist, District Office : Ernakulam
4. The Tahsildar Aluva
5. Stock File (2)
6. File Copy

(By Order)
Amalakaran
3.1.2
Senior Superintendent

yk-2 1.11

Lease order from Directorate of Mining and Geology

ANNEXURE 7

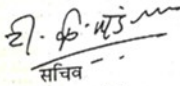





Cert No. SMR/4819/

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

श्री कंकोणकर कमलाकान्त मंगेश सुपुत्र मंगेश बी. कंकोणकर
 जिनकी जन्म तिथि 21.01.1971 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने
 का सन्तोषजनक प्रमाण प्रस्तुत करने एवं अक्टूबर, 2010 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर
 एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान
 किया जाता है। यह प्रमाण-पत्र दिनांक 05.04.2011 से प्रभावी है।

Shri Kankonkar Kamalakant Mangesh son of Mangesh B. Kankonkar
 born on 21st January, 1971 having given satisfactory evidence of possessing
 the prescribed qualifications and experience and having passed the prescribed examination held in
 October, 2010 is hereby granted SECOND CLASS MANAGER'S CERTIFICATE OF
 COMPETENCY to manage the metalliferous mines having opencast workings only. This
 certificate is effective from 05.04.2011

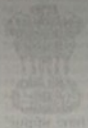


 सचिव
 खनन परीक्षा बोर्ड
 Secretary
 Board of Mining
 Examinations


 अध्यक्ष
 खनन परीक्षा बोर्ड
 Chairman
 Board of Mining
 Examinations

Signed and Sealed
 Date 12.08.11.


Certificate of second class manager

ANNEXURE 8

Cert No. MR/SZ/599

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

Affixed Copy

PAUL ANTHON
 MINE MANAGER

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

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

बाएं हाथ का निशान
 Left hand thumb impression

अंचल सचिव
 खनन परीक्षा बोर्ड
 Zonal Secretary
 Board of Mining
 Examinations

अंचल सचिव
 खनन परीक्षा बोर्ड
 दक्षिणी अंचल बंगलूर
 Zonal Secretary
 Board of Mining Examination
 Southern Zone, Bangalore

अध्यक्ष
 खनन परीक्षा बोर्ड
 Chairman
 Board of Mining
 Examinations

Signed and Sealed

Certificate of Mining mate

[illegible][illegible]

ANNEXURE 10



കേരളം KERALA

AFFIDAVIT

X 340969

I, Saji Vadakkekara authorised signatory of Planters Aggregates having its correspondence office at Palissery, Ezhattumugham, Ankamaly, Ernakulam, Kerala, 683577 Pin- Do hereby affirm and confirm as follows.

1). That The Planters Aggregates, Proposed quarry project in Survey No 168 at Karukutty Village & Panchayath and Alwaye Taluk, Ernakulam District, Kerala.

2). That the EC proceedings number and date are 58/SEIAA/KL/7586/2012 dt.15-03-2013

3). That all conditions stipulated in the environment Clearance would be scrupulously followed.



DEPONENT

I hereby affirm that the above statements are true to the best of my knowledge and belief and nothing material has been cancelled therein.

901

100

1st N/13 day 9 April 2013

Saji Vadakkekara
Vadakkakara house
Kolenchery

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

Affidavit

ANNEXURE 11

Standard^S
Environmental Monitoring

TEST REPORT

Test Report No: SEANN/1512/R371	Date: 28.12.2015	Page 1 of 1
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CUSTOMER DETAILS		
Customer Details	Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District
	Survey No	168, Block - 1
	Village	Karukutty
	Panchayath	Karukutty
	Taluk	Aluva
	District	Ernakulam
	State	Kerala
Customer Reference	Test Request Form Dated 23.12.2015	

SAMPLE DETAILS	
Source of sample	Ambient Sound Level
Location of Monitoring	Near East side Boundary
Date of Monitoring	23.12.2015

DAYTIME	RESULT	NIGHTTIME	RESULT
06.00 Hrs	39.2 dB (A)	23.00 Hrs	35.8 dB (A)
07.00 Hrs	42.6 dB (A)	00.00 Hrs	36.1 dB (A)
08.00 Hrs	45.9 dB (A)	01.00 Hrs	34.7 dB (A)
09.00 Hrs	47.3 dB (A)	02.00 Hrs	35.7 dB (A)
10.00 Hrs	50.4 dB (A)	03.00 Hrs	35.3 dB (A)
11.00 Hrs	54.5 dB (A)	04.00 Hrs	36.5 dB (A)
12.00 Hrs	56.2 dB (A)	05.00 Hrs	37.1 dB (A)
13.00 Hrs	53.1 dB (A)	RESULTS	
14.00 Hrs	54.0 dB (A)		
15.00 Hrs	53.1 dB (A)	Ambient Sound Level (Leq) Daytime	51.0 dB (A)
16.00 Hrs	52.5 dB (A)		
17.00 Hrs	52.9 dB (A)	Ambient Sound Level (Leq) Nighttime	35.9 dB (A)
18.00 Hrs	49.7 dB (A)		
19.00 Hrs	45.1 dB (A)		
20.00 Hrs	42.3 dB (A)		
21.00 Hrs	39.5 dB (A)		
22.00 Hrs	39.1 dB (A)		

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories


[Signature]
Authorized Signatory

Standard^S Environmental & Analytical Laboratories
Accreditation and Approval: NABL - ISO 17025:2005

Result of ambient sound level

ANNEXURE 12

Standard^S
Environmental Monitoring


NABL(T-3620)

TEST REPORT

Test Report No: SEAAL/1512/R071	Date: 28.12.2015	Page 1 of 1
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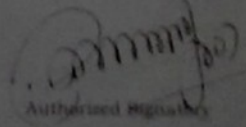
CUSTOMER DETAILS			
Customer Details	Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District	
	Survey No	168, Block - 1	
	Village	Karukutty	
	Panchayath	Karukutty	
	Taluk	Aluva	
	District	Ernakulam	
	State	Kerala	
Customer Reference	Test Request form dated 23.12.2015		

SAMPLE DETAILS			
Source of Sample	Ambient Air	Sample Code	SEAAL/1512/R071
Location of Monitoring	Near East Side Boundary	Sampled By	By Laboratory
Date of Monitoring	23.12.2015	Test Started On	24.12.2015
Sample Received On	24.12.2015	Test Completed On	26.12.2015
Humidity	71 %	Sampling Procedure	IS 5182 Part V & XIV

SL NO	TEST PARAMETER	TEST METHOD	UNIT	RESULTS	NAAQ STANDARD
01	Particulate matter (PM ₁₀)	IS 5182 Part 23: Reaff. 2012 SEAAL/SOP/01 Issue No.01 Dated 05.06.2015	µg/m ³	58.1	100
02	Particulate matter (PM _{2.5})	EPA 40 CFR Part 50 Appendix - L SEAAL/SOP/02 Issue No.01 Dated 05.06.2015	µg/m ³	32.5	60.0
03	Sulphur dioxide (SO ₂)	IS 5182 Part 2: Reaff. 2012 SEAAL/SOP/03 Issue No.01 Dated 05.06.2015	µg/m ³	6.3	80.0
04	Nitrogen dioxide (NO ₂)	IS 5182 Part 6: Reaff. 2012 SEAAL/SOP/04 Issue No.01 Dated 05.06.2015	µg/m ³	3.7	80.0

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories


Authorized Signatory

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

Standard^S Environmental & Analytical Laboratories

Result of ambient air

ANNEXURE

13

Standard^S
Environmental Monitoring

TEST REPORT

NABL(T-3620)

Test Report No: SEAA/1512/R072	Date: 28.12.2015	Page 1 of 2
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CUSTOMER DETAILS

Customer Details	Name & Address	M/s Planters Aggregates Karukutty, Aluva, Ernakulam District	
	Survey No	16B, Block - 1	
	Village	Karukutty	
	Panchayath	Karukutty	
	Taluk	Aluva	
	District	Ernakulam	
	State	Kerala	
Customer Reference	Test Request Form dated 23.12.2015		

SAMPLE DETAILS

Sample Code	SEAA/1512/S072	Sample Received On	24.12.2015
Sample Name	Water	Sampling Procedure	SEAA/MSP/24
Sample Description	Borewell Water	Sampling Location	---
Identification By Customer	---	Sample Condition	Good
Sampled On	23.12.2015	Test Started On	24.12.2015
Sampled By	By Laboratory	Test Completed On	26.12.2015

SL NO	TEST PARAMETER	TEST METHOD	UNITS	RESULTS	ACCEPTABLE LIMIT (IS 10500 - 2012)
01	Colour	IS 3025 Part 4: Reaff. 2012	Hazen Unit	2.0	5.0 (Max)
02	Odour	IS 3025 Part 5: Reaff. 2012	---	Unobjectionable	Unobjectionable
03	Turbidity	IS 3025 Part 5: Reaff. 2012	NTU	< 0.1	1.0 (Max)
04	pH @ 25 °C	IS 3025 Part 11: Reaff. 2012	---	6.51	6.5 - 8.5
05	Total Dissolved Solids	IS 3025 Part 16: Reaff. 2012	mg/L	228	500 (Max)
06	Total Hardness (as CaCO ₃)	IS 3025 Part 21: 2009	mg/L	103	200 (Max)
07	Calcium (as Ca)	IS 3025 Part 4: Reaff. 2009	mg/L	33.0	75.0 (Max)
08	Magnesium (as Mg)	IS 3025 Part 16: Reaff. 2009	mg/L	5.01	30.0 (Max)
09	Chloride (as Cl)	IS 3025 Part 32: Reaff. 2009	mg/L	20.2	250 (Max)
10	Total Alkalinity (as CaCO ₃)	IS 3025 Part 23: Reaff. 2009	mg/L	42.6	200 (Max)
11	Iron (as Fe)	IS 3025 Part 53: Reaff. 2009	mg/L	0.18	0.30 (Max)
12	Sulphate (SO ₄)	IS 3025 Part 24: Reaff. 2009	mg/L	45.1	200 (Max)

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory

Lab No. N

This report is related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standard^S

Environmental Monitoring

Test Report No: SEAAL/1512/R072

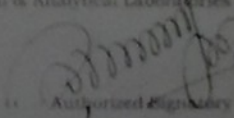
Date: 28.12.2015

Page 2 of 2

SL No	PARAMETERS TESTED	TEST METHOD	UNIT	RESULT	ACCEPTABLE LIMIT (IS 10500 - 2012)
13	Fluoride (as F)	IS 3025 (Part 60)	mg/L	BDL	1.0 (Max)
14	Arsenic (as As)	APHA 3111B	mg/L	BDL	0.01 (Max)
15	Copper (as Cu)	APHA 3111B	mg/L	BDL	0.05 (Max)
16	Manganese (as Mn)	APHA 3111B	mg/L	BDL	0.1 (Max)
17	Cadmium (as Cd)	APHA 3111B	mg/L	BDL	0.003 (Max)
18	Chromium (as Cr)	APHA 3111B	mg/L	BDL	0.05 (Max)
19	Zinc (as Zn)	APHA 3111B	mg/L	BDL	5.0 (Max)
20	Mercury (as Hg)	APHA 3111B	mg/L	BDL	0.001 (Max)
21	Cyanide (as CN)	APHA 3111B	mg/L	BDL	0.05 (Max)
22	Lead (as Pb)	APHA 3111B	mg/L	BDL	0.01 (Max)
23	Aluminium (as Al)	APHA 3111B	mg/L	BDL	0.03 (Max)
24	Total coliform bacteria	IS 1622 - 1981	MPN/100ml	11.0	Absent/100ml
25	E - Coli	IS 1622 - 1981	---	Absent	Absent/100ml

BDL - Below Detection Level

End of Report

For and on behalf of
Standard^S Environmental & Analytical Laboratories

Authorized Signatory
Standard^S Environmental & Analytical Laboratories

Accreditation and Approval: NABL as per ISO 17025: 2005 & 'A' Grade laboratory of KSPCB

Result of drinking water