#### **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

ΑT

**SURVEY NO. 168** 

KARUKUTTY VILLAGE & PANCHAYATH, ALWAYE, ERNAKULAM DISTRICT, KERALA.

BY

M/S PLANTERS AGGREGATES, ERNAKULAM DISTRICT, KERALA.

(July - December, 2014)

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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 2014 – December 2014 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 time. The photographs showing the rain water collection pond and drainage 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. 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 dust suppression. Two concrete tanks are also used for collecting rain water and its efficient utilization. The photograph showing the rain water collection pond 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. 10, 11, & 12. 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.	riead of monitoring cell (proprietor)	Saji vadakkekara
۷.	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

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

#### □ 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 side of service road 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 project converted a slope land in to benches by systematically dumping the overburden. To prevent soil erosion this has covered with a coir mat and planted grass. As part of eco - restoration, the project is intending to plant various trees 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 treatment support, promotion of sports, aid for constructing houses and toilets, promotion of environment etc. The documentary evidence showing the Corporate Social Responsibility (CSR) expenditure incurred from 01/08/2014 to 31/12/2014 is attached at Annexure No. 2.

#### **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. 6.

#### **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 were 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, blasting time sign board etc are provided at Plate No. 7.

#### **Condition X**

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

#### Compliance:

At present access road to the quarry is maintained under sprinkler system to control the dust emission during transportation of the materials. The access road is newly constructed and it yet be tarred. The tarring or lying tails shall be complied. The photograph showing the access road to the quarry is provided at Plate No. 8.

#### **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 material should be managed within the site is attached at Plate No. 5 & 9.

#### **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 benches are made properly. The copy of certificates of second class manager and mines mate are attached at Annexure No 6 & 7. The photograph showing the height of benches is attached at Plate No. 10.

#### **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.

#### □ 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 hollow brick covering maintain the noise level as per CPCB standards. The photograph showing the crusher unit is attached at plate No. 27.

#### □ 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. 9.

#### □ 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/ slit 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 debris/slit in the storm water may sediment at the bottom of pond. The silt 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. 13

#### **□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. 3, 4 & 5

Name of the Statutory approval	Name		he Statutory hority		Approval Number & Date
"Consent to Operate"	Kerala S		Pollution Con	trol	File No. 964872
·	Board				Dated : 10/04.2015
Explosive License	Ministry	of	Commerce	&	E/SC/KL/22/751(E33224)
	Industry	_	Petroleum	&	29/05/2014
	Explosive	es	Saf	ety	
	Organiza	tion	(PESO)		
License for quarry operations	Karukutty	/ Gra	ım Panchayat		B3.20/14-15
					dated:1/04/2014

#### **□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. 08.

#### □ 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.plantersgroup.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 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.

#### Ш

#### **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. 09.



Rain water collection Pond exist in the project site



The natural vegetation maintained along the roadside PLATE 3



Solar street lights installed near to the magazine



Sprinklers Installed in the project area PLATE 5



Benches made by over burden and covered by coir mat



Barbed metal wire fencing with a height of 5 meter PLATE 7



Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting



PLATE 8

Internal access road to the quarry site

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Over burden managed within the site PLATE 10



Minerals explored with bench system of 5 m width and height PLATE 11



Crusher unit existing in the project site



**PLATE 12** 

The drain line maintained in the project site



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

PLATE 14



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#### **ANNEXURE 1**



Proceedings of the State Environment Impact Assessment Authority Kerala

Sub: SEIAJ Kenilo - Proposed quamy project in Survey No. 168 at Karukutty Village, Karukutty Pancheyath. Alwaye Taluk, Enakulam District, Kenalı by M/s Plantars Aggregates – Environmental Clearance under FIA Notification 2006 accorded – Orders issued

No. 58/SEIAAKL/7586/2012

Environmental Clearance
dated Thirmanurthopsean 15-83-2013

#### 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 Karukenty Village, Karukarty Pauchayath, Abwaye Taiak, Emakulam District, Kerala. The proposed has been appraised by the State Level Expert Appairal Committee Kerala constituted by the competentatuhority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amountments, in its 10° meeting held on 18° and 27° November 2012 and also in the 12° meeting held on 2° Pehruar, 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 Plant and the additional clarifications firmished in response to the observations, the SEAC Kerala recommended arvivamentatic learnance as the project.

It is interalia, noted that the project comes under the Category B, Activity 1(a) of Scaedule of EIA Notification 2006. The proposed project site falls within 10° 6°N and 76°25° E. The proposed project is for custrying of 2,88,000 TPA of building granies stoot from an area of 4,8033 bectare of land. The expected life of mins will be 6 pears. The proposed activity involves about 75° 46° the pit area for exploring granite building stone. At the end of life of mine the reclaimed area will be quistedly planted and the remaining void at lower levels of excavated pit will be utilized as water strange/ground water recharge and will be utilized for convestic/lapicultural purposes. The proposed project does not involve any underground mining activities. The mining will be done to popen asses are mechanised method of mining. The bench height and width proposed is 5 m. The exploitation of miners is being done from 145-30 m.R.L in conceptual phase. A total quantity of £4,000 m² of top to life from two pits will be removed during the mining epocations. The mining will be during the from the quarry shal

Annexure

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

- Rain water harvesting to collect and stillize the entire water falling in land area should be provided.
- Environment Monitoring Cell as agreed under the affidavit faled by the proponent should be formed (ii) and made junctional.
- Suitable arenue trees should be planted along either side of the turned road and open parking areas, if (iii) any, inclusive of approach road and internal roads.
- The project shall incorporate devices for solar energy generation and utilization wherever possible
- 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
  - Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5
  - it so that felling of animals/human/belongings/dumping of garbages etc. does not happen.
  - Warning darms indicating the time of blasting (to be done at specific timings) has to be arranged as (ix) per stipulations of Explosive Department
  - Access reads to the quarry shall be tarred to contain dust emissions that may arise during (x) transportation of materials.
  - Overburden materials should be managed within the site and the old quarries, if any, should be (xi) reclaimed and restored.
- Height of senence should not exceed 5 m and width should not be less than 5 m. (xii) (xiii) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.
- Mining doth should not exceed beyond 40 m, unless otherwise specified or not below the level of arest steam bed, whichever is less.
- Acoustic enclosures should have been provided to reduce sound amplifications in addition to the (KV) provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within scribed standards given by CPCB
- 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 prop
- (xvii) Garland drains to be provided in the lower slopes around the one area to channelize storm water
- (xviii) Debris' sit traps to be provided to prevent entry of dust and quarry wastes entering the main streams

2011 of Ministy of Environment and Forests, Govt, of India, published as Gazette extraordinary No. 2074 on 3-11-2011, hereby accord accessary Environmental Clearance for the above projec as per powers vested with it under the provisions of Environment Impact Assessment Notification = 2006 and subsequent aroundments and also under the provisions made in the O.M. No. L-11011497/2011-ALI(M) dated 18th May 2012 of the Ministry of Environment and Forests, Government of India, and further subject to series compliance of the following specific conditions, and the general conditions contained in the Americance, which shall also form a part of this document.

1. Storm, water desirage channels and drainings line to the existing good in the site and its cult from the site should be made fully functional.

2. The depth of mainter should be restricted to the 30 m level as agrand in the proposal.

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 Kerals or its agencies and also by the Regional Office of the Ministry of Environment and Fovests, Government of India located at Bangalene. Necessary support for entry and inspection about 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 icc-Mr. Suji Vadakickara, Poprietoc, Mis Planters Aggregates, Pulissery, Ezhatumugham P.O., Emskulan, Kerala – 683577; Telephoce No: 0484-2439166, 2439167. E-mail: plantersreup@yaheo.com

Agency with NABET accreditation for EIA is:- M/s Enkay Enviro Services, 24-B, Basement, Dadu Marg. Gopal Bari, Jaipur-302001; Tel. No. 0141-2163996/402398; Fax No: 0141-5118996; E-mail:

of to James Varghore IAS Member Secretary, SEIAA and Principal Secretary to Government

Mr. Saji Vadakkekara Propristor M/s Panters Aggregates Palissery, Ezhattumugham P.O. Ernakilam, Kerala – 683577.

#### Copy to :

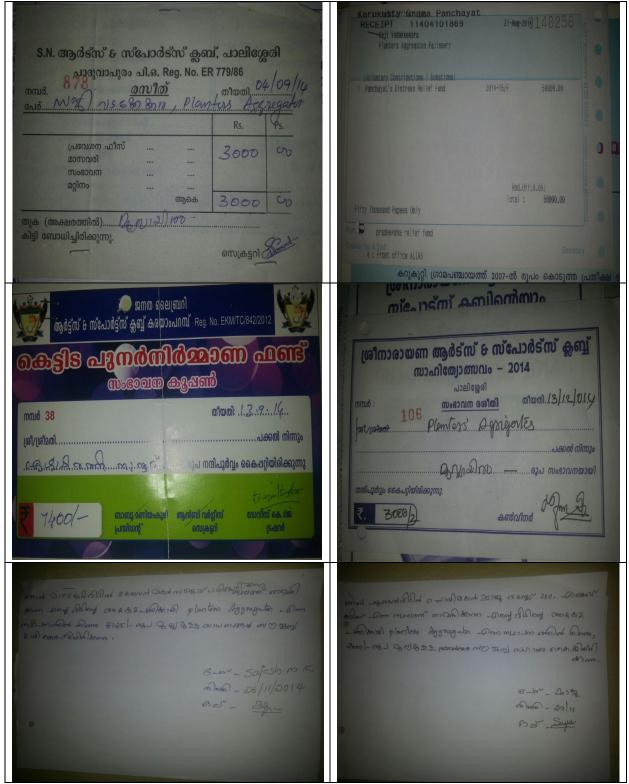
- The Principal Secretary, Environment Dept., Government of Kerala, Secretariat
  The Eirector, Dept. of Environment and Climate Change, Covt. o.f Kerala, Tvm 24.
  IA-Division, Monitoring Cell, IndEf. Paryavaran Bhavan, CGO Complex, Lodhi Roal, New Defini- 110003
  MoEF Regional Office, Southern Zone, Kendriya Sadan, 4ft Floor, E&F Wing, II Black
  Koranongala, Bungalore-560034
  Charman and Members of SELAA Kerala
  Charman, SEAC Kerala
  Likhitin nedensia.

- Website uploading Stock file
- Page 2 of 4
- All other statutory clearances should have been obtained, as applicable, by project propounts from npetent authorities including that for blasting and storage of explo
- In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the conformated obstrance under the provisions of the Envronment (Protection) Act 1986, to ensure effective implementation of the suggested safeguard neasures in a time bound and spitisfactory manner.
- 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.
- The project proponent should advertise in at least two local conspapers widely circulated in the region, one of which shall be in the vermocular language informing that the project are been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change Govt, of Korals and may also be seen on the website of the Authority of www.sciankerala.org. The advertisement should be under 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 or confirmation. Authority & confirmation.
- A copy of fix clearance letter shall be sent by the proponent to concerned Grama Panchayas/ District Panchayas/ Municipality/Cospocations/Urbs Local Body and also to the Local NGO, if any, from whom nugrestions / representations, if any, were received while processing the proposal. The gleanesce letter shall also be put on the website of the company to the proponent.
- The proposent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mailly and, uplead the status of compliance of the stipulated EC conditions including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Clange, Govt. of Kerala.
- The conditions of Environmental Clearance should be prominently displayed in a metallic loard of 3 ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than
- The proponent should provide affidavit that all the conditions stipulated in the EC shall be scrupulously followed.

Sd/ Mamber Secretary, SEIAA Kerala

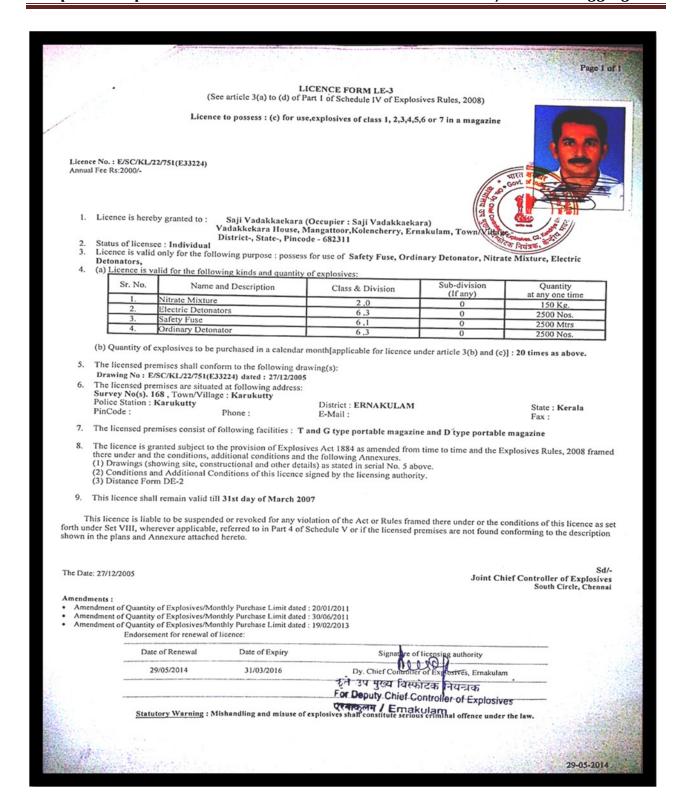
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#### **ANNEXURE 2**



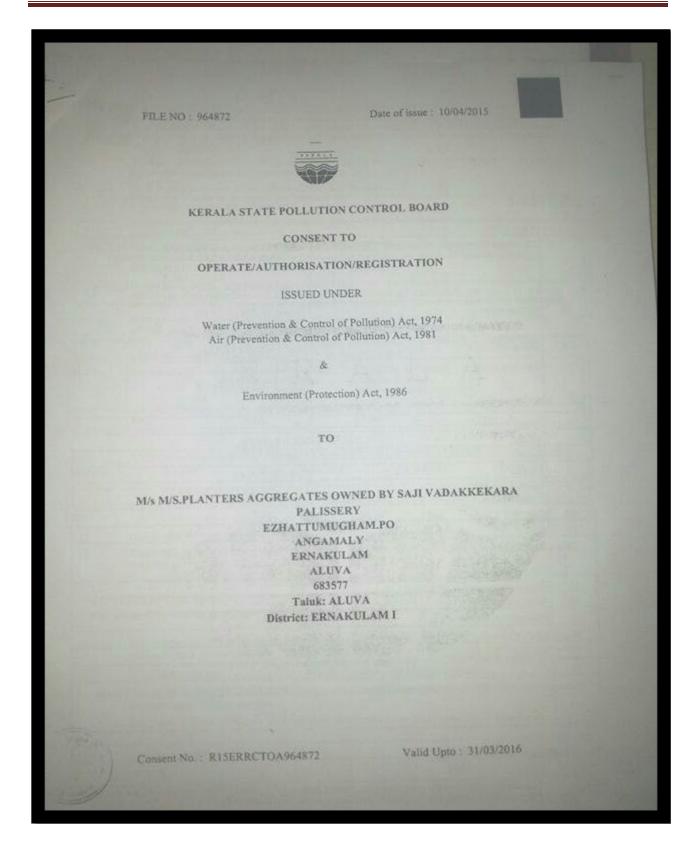
Receipts of activates under CSR

#### **ANNEXURE 3**



# License to possess and use of Explosives ANNEXURE 4

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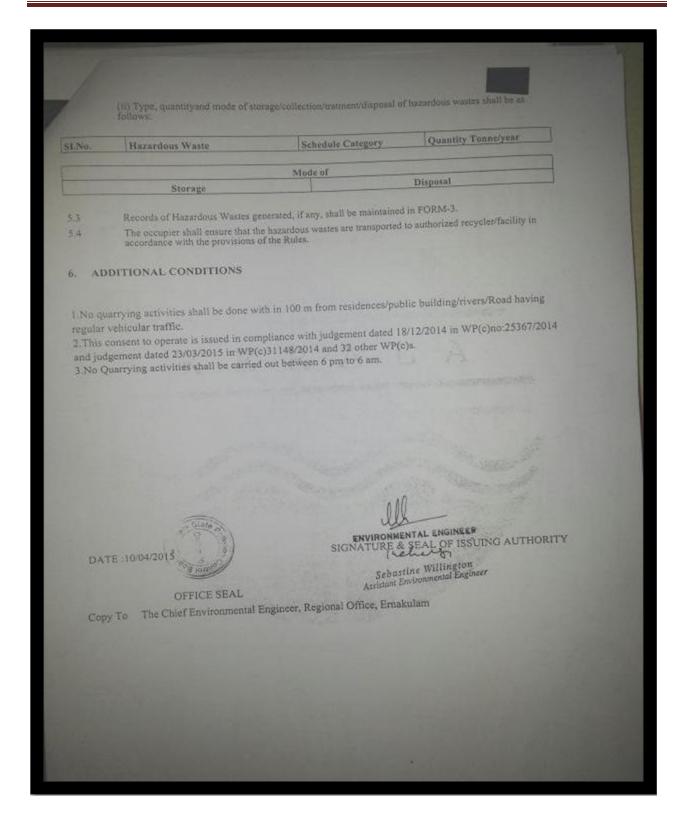


July - December 2014

SERVE	NERAL	31/03/2016	
2	VALIDITY  Name and Address of the establishment	M/S PLANTERS AGGREGATES OWNED BY SAII VADAKKEKARA PALISSERY	
		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	Smell	
12	Annual fee	RS.65607-	
	Fee remitted	Rs.22960/-	
13	Capital Investment(Rs in Lakhs)	46.0	
14	Water Consumption	200 l/day	
15	Effluent Generation	NA 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	

	This consent, unless withdrawn earlier and subject to condition no.2.1, shall be valid upto 31/01/2016. For renewal of the consent in case of continuance of discharge/operation of the industry, application in Management & Monitoring System on or before. Late application will be accepted only with a fine /						
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.						
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.						
5.	If operations are done with backup power, the generator shall have adequate capacity to run all associated pollution control devices.						
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.					nits shall be ne desired	
7	accident	or umer uniorese	rehended discharge of a sen act or event, it shall all make all possible effo	na immazintel	Wintimated to	the Board	and the
.8	Arrange	ments for collecti	on, segregation, storage and maintained properly	handling and			
.9	E-waste	shall be disposed	in an environmentally s or before 3151 Decemb	ound manner	. The following	details sh	all be
SLNO.	Particu	lars of e-waste	Quantity of e-waste disposed in the previous year	proposed	of e-waste to be in the current	Mode of	disposal
1	NA		NA	NA		NA	
				1,5,5,0	1100000000	11101	
2:10	. Period	ical reports as det	ailed below shall be sub	mitted to the r	respective Distr	ict Office	of the Board.
Statutes		Details	Mode of collection and analysis		eriodicity	2000	m No.
				Analysis	Submissio	-530	
NA		NA	NA	NA	NA	NA	
	Renewa possible DITION	sble sources of ende	vation measures shall be ergy such as solar energy ontrol of Pollution)A	shall be utili		and heath	ng wherever
	trestme	nt units having ad ration of the indus	rade effluent from the in equate capacity as listed try. Additional facilities of the Water Act shall a	under item 1. required, if a	17 shall be fun ny, to achieve t	ctional at a	all times during
3.1	the ope	sourd u/s 17(1)(g)		Sale and the sale of the	such and the Sta	nal outlet fo	or inspection
3.2	the ope by the 1 There s and dra	hall be easy acces wing of effluent s					
3.2	the ope by the 1 There s and dra The chi	hall be easy acces wing of effluent si tracteristics of effl	s to each and every efflu ampies. went after treatment shal				
3.2	the ope by the 1 There s and dra The chi	hall be easy acces wing of effluent s	amples.		the following to		nits:

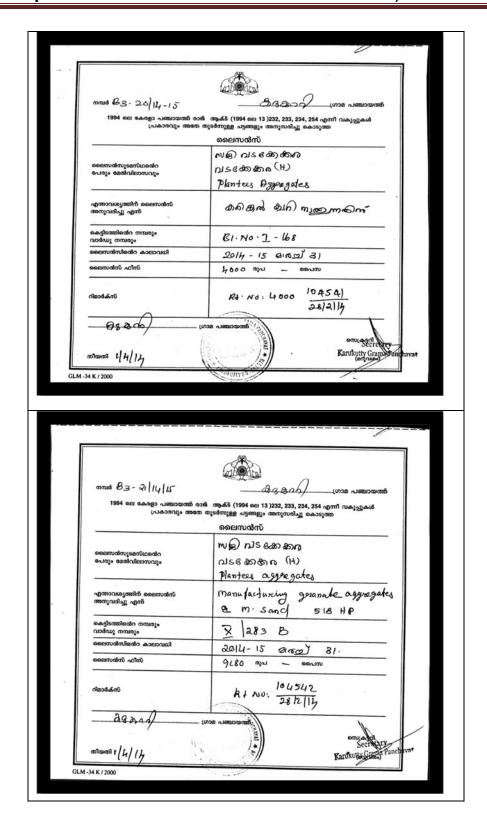
3.4	Water meter shall be fixed to record consumption of water. Separate meters should be fixed if cost a differential rates is claimed for use of water such as cooling/boiler feed, domestic, process where she effluent is easily biodegradable and/or not toxic and process where the effluent is not easily biodegradable and/or toxic.					
3.5.	Suitable facility shall be provid	ded for safe storage and	disposal of the s	ludge generated from the ETP, it		
3.6	Adequate sanitation facilities shall be provided for the employees.					
	NDITIONS AS PER Air(Prevention and Control o . Following emission control e			d whenever emission is made:		
SLNO	Source of Emission	Stack Height		Control Equipment		
	Source of Emission	Above Ground Level	Above Roof Level	Control Equipment		
Capacity	Emission Rate	(Nm3/hr		Unit		
Capacity	Emission Rate	and a second		Cult		
4.2	Emission characteristics shall	not exceed the following				
SLNO	Parameter		Limiting Standards mg/Nm3			
1	NA		NA			
4.4	All stacks shall have adequate monitoring of emissions. Water sprinklers shall be prov (PM 10 & PM 2.5) at the bour adjoining area.	ided to suppress spread	ng of dust outsid	le the premises. Particulate matter		
4.5	Raw materials shall be transpo during transportation.	orted with proper cover	or after wetting t	o prevent spreading of dust		
4.6	There shall be no fugitive emi					
4.7	The sound level measured 1 m outside the boundary of the premises shall not exceed the standards applicable to the adjoining area.					
****		All operations likely to produce dust or noise shall be carried out within appropriate enclosure.				
4.8	All operations likely to produc					
	All operations likely to produc	urnose of consumption	of fuel, if any, s	hall be maintained and abstract		
4.8 4.9	All operations likely to produc	ourpose of consumption d along with emission r	of fuel, if any, s nonitoring repor	hall be maintained and abstract is.		
4.8 4.9	All operations likely to product Record of type, quantity and p shall be submitted to the Boar	purpose of consumption d along with emission r  Handling and Trans	of fuel, if any, s nonitoring repor boundary Mo	hall be maintained and abstract is.  vement) Rules 2008.		
. CON	All operations likely to product Record of type, quantity and p shall be submitted to the Boar NDITIONS AS PER ardous Waste (Management,	d along with emission re Handling and Trans if any, shall be handled Movement Rules, 2008	of fuel, if any, s nonitoring repor boundary Mo	hall be maintained and abstract is.  vement) Rules 2008.		
1.8 1.9 . CON Haza	All operations likely to product Record of type, quantity and p shall be submitted to the Boar NDITIONS AS PER ardous Waste (Management, Hazardous wastes generated, Handling and Transboundary (i) Activities for which Autho	Handling and Trans if any, shall be handled Movement Rules, 2008 rization is granted.	of fuel, if any, s nonitoring repor boundary Mo as per the Hazar	hall be maintained and abstract is.  vement) Rules 2008.		
i.8 i.9 . CON Haza	All operations likely to product Record of type, quantity and p shall be submitted to the Boar NDITIONS AS PER ardous Waste (Management, Hazardous wastes generated, Handling and Transboundary (i) Activities for which Authors	Handling and Trans if any, shall be handled Movement Rules, 2008 rization is granted.	of fuel, if any, s nonitoring repor boundary Mo as per the Hazar portation	hall be maintained and abstract is.  vement) Rules 2008.		



Concent to Operate from Kerala Pollution Control Board

ANNEXURE 5

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License from Gram Panchayat

ANNEXURE 6



Certificate of second class manager

ANNEXURE 7

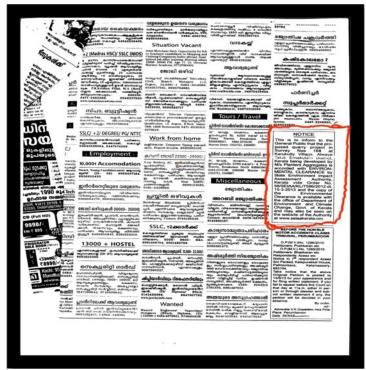


**Certificate of Mining mate** 

### **ANNEXURE 8**

July - December 2014

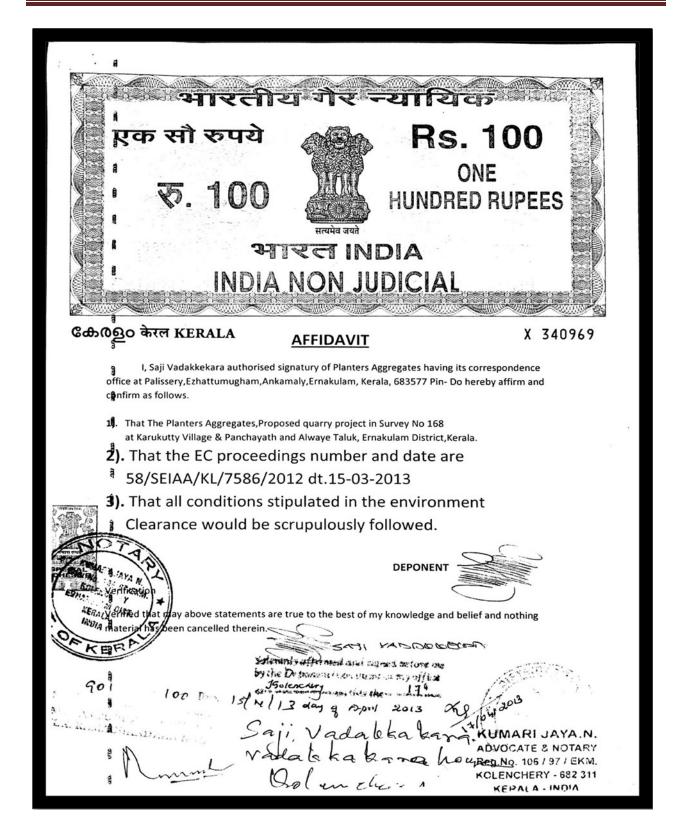




Advertisement in two news paper

ANNEXURE 9

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**Affidavit** 

### **ANNEXURE 10**

Date: 03.01.2015



### TEST REPORT

TEST CERTIFICATE NO: SEANN/1412/R248

: M/s Planters Aggregates

Name and address of the customer Karukutty, Aluva

Ernakulam District

: 168, Block - 1

Village : Karukutty Panchayath: Karukutty

Taluk : Aluva

District : Ernakulam State : Kerala

: Ambient sound level

Source of sample Location of monitoring : Near East side boundary

: 30.12.2014 11.00 Hrs to 31.12.2014 11.00 Hrs Date of monitoring

Daytime	Result	Nighttime	Result		
06.00 Hrs	37.3 dB (A)	23.00 Hrs	38.1 dB (A)		
07.00 Hrs	39.7 dB (A)	00.00 Hrs	36.5 dB (A)		
08.00 Hrs	42.4 dB (A)	01.00 Hrs	37.3 dB (A)		
09.00 Hrs	45.9 dB (A)	02.00 Hrs	36.9 dB (A)		
10.00 Hrs	49.3 dB (A)	03.00 Hrs	38.0 dB (A)		
11.00 Hrs	51.4 dB (A)	04.00 Hrs	38.2 dB (A)		
12.00 Hrs	52.4 dB (A)	05.00 Hrs	37.0 dB (A)		
13.00 Hrs	53.8 dB (A)	RESULT			
14.00 Hrs	51.1 dB (A)	RESULT			
15.00 Hrs	52.7 dB (A)				
16.00 Hrs	50.6 dB (A)	Ambient sound level (Lee) Deutime	49.2 dB (A)		
17.00 Hrs	51.4 dB (A)	Ambient sound level (Leq) Daytime 49.2 d			
18.00 Hrs	48.3 dB (A)				
19.00 Hrs	45.2 dB (A)				
20.00 Hrs	41.9 dB (A)	Ambient cound level (I es) Nighttime	27.4 40.40		
21.00 Hrs	41.0 dB (A)	Ambient sound level (Leq) Nighttime	37.4 dB (A)		
22.00 Hrs	39.6 dB (A)		1		

For and on behalf of Standard<sup>®</sup> Environmental & Analytical Laboratories

LAIJU P. N. Quality Manager

### Standard<sup>s</sup> Environmental & Analytical Laboratories 'B' Grade Laboratory - Approved by Kerala State Pollution Control Board

K.J. Tower (above SBI Eloor Branch), Kuttikattukara P.O., Udyogamandal, Ernakulam - 683 501 Tel: 0484-2546660, 93 87 27 24 02, E-mail: seaalab@gmail.com

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### Result of ambient sound level

# **ANNEXURE 11**



### TEST REPORT

TEST CERTIFICATE NO: SEANN/1412/R246

Date: 03.01.2015

Name and address of the customer

: M/s Planters Aggregates Karukutty, Aluva Ernakulam District

Sy No : 168, Block - 1 Village : Karukutty Panchayath: Karukutty Taluk : Aluva District : Ernakulam State : Kerala : Ambient Air

Source of sample

Location of monitoring

: Near East side Boundary Date of monitoring : 30.12.2014 12.00 hrs to 31.12.2014 12.00 hrs

: SEANN/1412/S186

Sample code Date of analysis started Date of analysis completed

: 31.12.2014 : 02.01.2015

Parameters	Test Method	Result	NAAQ Standard
Particulate matter (PM <sub>10</sub> )	IS 5182 (Part 23)	64.3 μg/m <sup>3</sup>	100 μg/m <sup>3</sup>
Particulate matter (PM <sub>2.5</sub> )	СРСВ	30.8 μg/m <sup>3</sup>	60 μg/m <sup>3</sup>
Sulphur dioxide (SO <sub>2</sub> )	IS 5182 (Part 6)	5.4 μg/m <sup>3</sup>	80 μg/m <sup>3</sup>
Nitrogen dioxide (NO <sub>2</sub> )	IS 5182 (Part 10)	3.1 µg/m <sup>3</sup>	80 µg/m <sup>3</sup>

For and on behalf of Standards Environmental & Analytical Laboratories

Authorized Signate

### End of Report

# Standard<sup>s</sup> Environmental & Analytical Laboratories

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# Result of ambient air

### **ANNEXURE 12**

Date: 03.01.2015



Name and address of the customer

#### TEST REPORT

TEST CERTIFICATE NO: SEANN/1412/R247

: M/s Planters Aggregates

Karukutty, Aluva

Ernakulam District Sy No : 168, Block - 1

Village : Karukuka Panchayath: Karukutty Taluk : Aluva

District : Ernakulam

State : Kerala

: Self

: Water

Description of sample Source of sample Date of sample collected

: Borewell : 31.12.2014 : SEANN/1412/S185

Sample drawn by

Sample code
Date of analysis started
Date of analysis completed

: 31.12.2014 : 02.01.2015

Parameters Tested	Test Method	Result	Requirement (Acceptable Limit) IS 10500 - 2012)
Colour	IS 3025 (Part 4)	3 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (Part 5)	Unobjectionable	Unobjectionable
Taste	IS 3025 (Part 7)	Agreeable	Agreeable
Turbidity	IS 3025 (Part 10)	Below Detection Level	1 NTU
pH Value	IS 3025 (Part 11)	6.61	6.5 – 8.5
Total Dissolved Solids	IS 3025 (Part 15)	167 mg/l	500 mg/l
Total Hardness (as CaCO <sub>3</sub> )	IS 3025 (Part 21)	80.90 mg/l	200 mg/l
Calcium (as Ca)	IS 3025 (Part 40)	41.20 mg/l	75 mg/l
Magnesium (as Mg)	IS 3025 (Part 46)	7.50 mg/l	30 mg/l
Chloride (as Cl)	IS 3025 (Part 32)	27.80 mg/l	250 mg/l

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TEST CERTIFICATE NO: SEANN/1412/R247

Continued.....

Parameters Tested	Test Method	Result	Requirement (Acceptable Limit) IS 10500 - 2012)	
Iron (as Fe)	IS 3025 (Part 53)	0.12 mg/l	0.3 mg/l	
Total Alkalinity (as CaCO <sub>3</sub> )	IS 3025 (Part 23)	43.0 mg/l	200 mg/l	
Fluoride (as F)	IS 3025 (Part 60)	0.08 mg/l	1 mg/l	
Sulphate (as SO <sub>4</sub> )	IS 3025 (Part 24)	31.20 mg/l	200 mg/l	
Arsenic (as As)	APHA 3111B	Below Detection Level	0.01 mg/l	
Copper (as cu)	APHA 3111B	Below Detection Level	0.05 mg/l	
Manganese (as Mn)	APHA 3111B	Below Detection Level	0.01 mg/l	
Cadmium (as Cd)	APHA 3111B	Below Detection Level	0.003 mg/l	
Chromium (as Cr)	APHA 3111B	Below Detection Level	0.05 mg/l	
Zinc (as Zn)	APHA 3111B	Below Detection Level	5 mg/l	
Mercury (as Hg)	APHA 3111B	Below Detection Level	0.001 mg/l	
Cyanide (as CN)	APHA 3111B	Below Detection Level	0.05 mg/l	
Lead (as Pb)	APHA 3111B	Below Detection Level	0.01 mg/l	
Aluminium (as Al)	APHA 3111B	Below Detection Level	0.03 mg/l	
Total coliform bacteria	IS 1622 - 1981	6.2	Shall not be detectable in any 100 ml sample	
E - Coli	IS 1622 - 1981	Absent	Shall not be detectable in any 100 ml sample	



For and on behalf of Standards Environmental & Analytical Laboratories

**Authorized Signatory** 

Page 02 of 02

End of Report

**LAIJU P. N.** Quality Manager

# Standard<sup>S</sup> Environmental & Analytical Laboratories '8' Grade Laboratory - Approved by Kerala State Pollution Control Board

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# Result of water