M/S PLANTERS AGGREGATES



COMPLIANCE REPORT



October 2015-March 2016

October 2015 – March 2016

COMPLIANCE REPORT

ТО

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 58/SEIAA/KL/7586/2012

BΥ

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

BUILDING STONE QUARRY

(MINOR MINERAL MINING) PROJECT

ΑΤ

SURVEY NO. 168

Karukutty VILLAGE & PANCHAYATH, ALWAYE,

ERNAKULAM DISTRICT, KERALA.

BY

M/S PLANTERS AGGREGATES,

ERNAKULAM DISTRICT, KERALA.

(October 2015 - March, 2016)

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INTRODUCTION

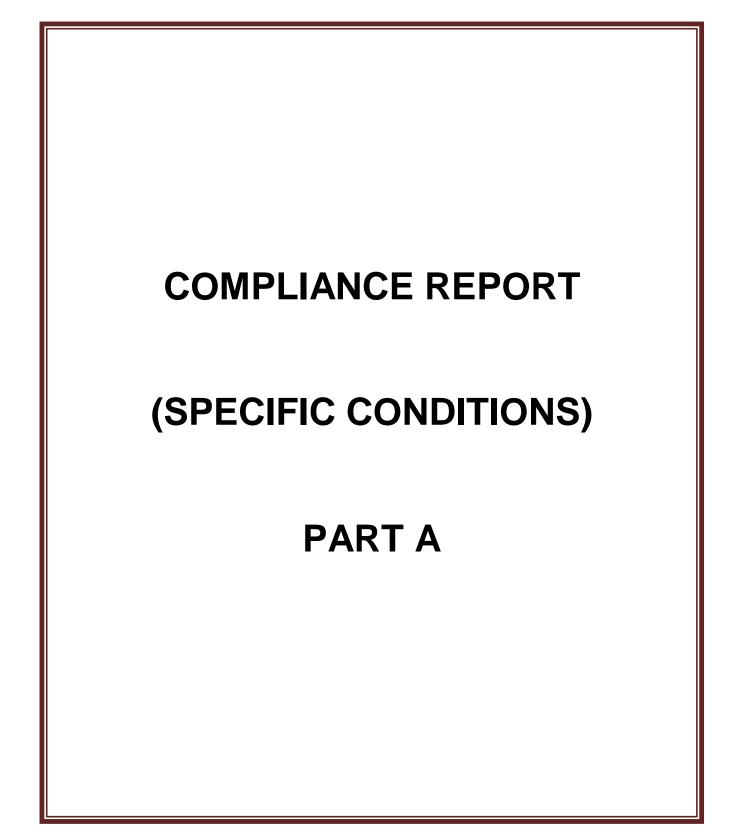
M/s Planters aggregates Quarry project is situated at survey no. 168 at Karukutty Village & Panchayath, Alwaye, Ernakulam District, Kerala. The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority on 15.13.2013.

The half yearly compliance report needs to be submitted as part of general condition No.25 of Environmental Clearance order by the project proponent. The compliance report to the specific conditions and general conditions of the Environmental Clearance for the period of January – June, 2016 is being submitted.

SALIENT FEATURES OF THE PROJECT

The project comes under Category B, Activity 1 (a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M No. J-13012/12/2013-IA-II (I) dt.24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Geographical location of the project site is in 9⁰59'21.50 to 9⁰59' 12.22" Latitude (N) and 76⁰37'20.43" to 76⁰37'06.07"(E). The quarry is interlinked with a Crusher / M sand unit located within the complex. The Capacity is 2, 70,000 MTA. There are no litigations against the lease area or applicant in any court of law. Topography is hilly. Highest elevation is 88m MSL and lowest 38m MSL. The approximate daily water demand is 5 KLD and total power requirement is 75 kw. The nearest house is located at 108m south west of the proposed quarry.



PART - A – SPECIFIC CONDITIONS

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

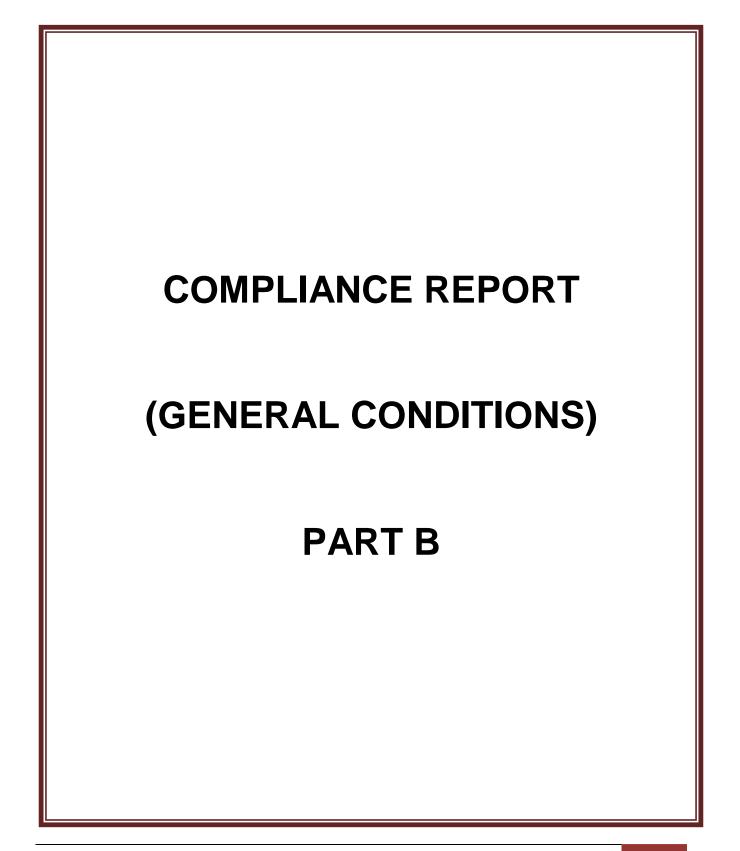
Compliance:

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 photograph showing the exit of drainage form the site is provided at **Plate No.1**.

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

Compliance:

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.



PART – B – GENERAL CONDITIONS

01	Rain water harvesting to collect and utilize the entire water	Complied
	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 gardening, 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. 2.**

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

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. 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.

SI. No.	Post	Name		
1.				
	Head of monitoring cell (proprietor)	Saji Vadakkekara		
2.				
	Head in charge (Environmental)	Davis George		
3.				
	Senior Environmental Officer	Reji K. Paul		
4.				
	Asst. officer of Environment, Health	Kamalkanth		
	and safety at site			
5.		M/s Environmental Engineers &		
	Environmental consultant	Consultants Pvt. Ltd.		
		A1-198, Janak Puri, New Delhi		
6.		Standards Environmental &		
	Address of Environmental Laboratory	Analytical Laboratories, KJ Tower,		
		Udyogamandal, EKM		

TABLE 1 ENVIRONMENTAL MONITORING CELL (EMC)

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

Compliance:

There are natural vegetation including trees, shrubs and climbers growing 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. 3**.

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

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

04	The	project	shall	incorporate	devices	for	solar	energy	Complied
	gene	ration an	d utiliz	ation whereve	er 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. 4.**

05	Sprinklers shall be installed and used in the project site to	Complied
	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. 5**.

06	The eco-restoration plan submitted with the proposal should be	Will b	be
	fully implemented.	complied	

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. 6.**

07	Corporate social responsibility agreed upon by the proponent	Being
	should be implemented	complied

Compliance:

The project carried out many activities under corporate social responsibility, such as treatment support, promotion of sports and culture, aid for constructing houses and toilets, promotion of environment, etc. The project is providing food provisions to Emmanual 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. 1**.

Sectors	Activities	Partners	Beneficiaries	Location	Amount spent in Rs.
Promotion of education	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		92,400

Table 3 The details of performed activities under CSR

	Treatment	Kerala		100
	support	Leprosy patients guild		
	Treatment support		Shaji P A	2,000
Promotion of Arts and culture	Donation for festival	Sasthampara temple	Public	2,000
	Donation for festival	Sreenarayana Kshetram	Public	5,000
	Donation for festival	Kodussery Muthappan	Public	2,000
	Donation for cultural Festival	SNDP Library	Public	3,000
	Donation for Festival	St. George Church	Public	3,000
	Donation for cultural programme	Niracharthu	Public	5,000
	Donation for Cultural programme	Che guvera Cultural Center	Public	500
	Donation	Sree Bhadra trust	Public	500
	Donation	Kaipallikkatil temple	Public	500
	Donation for Kavadi programme	Vigneswara Kavbadi sangam	Public	1000
	Donation	SRVCS	Public	500
	Donation for festival	Mattapilly temple	Public	1,000
	Donation for festival	St. Alphonsa Church	Public	5,000
	Donation for festival	St. George Church, Munoorpilly	Public	2,000
	Donation for festival	Vellapara temple	Public	3,300
Infrastructure Development	Crusher products for construction of house	Nil	Jorly jose, Puthuissery	2,500

	Crusher products for construction of house	Nil	Biju K N, Kollam Mukalil	1,700
	Crusher products for construction of house		Shaju AR, Arakkal	7,500
	Crusher products for construction of house		Aprem, Arakkal	3,200
	Crusher products for construction of house		Shailaja Managatta	3,180
	Crusher products and donation for waiting shed	Nattorumma	Public	4,000
Environment	Donation	Paristhithi bodhavalkara na samithi	Public	1,000
	Doantion	Pollution control Federation	Public	2,000
	Total amo	ount in Rs.		1,37,822

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

To 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**.

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

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, is provided at **Plate No. 8**.

Condition X

1	0	Access roads to the quarry shall be tarred to contain dust	Complied
		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 is maintaining with granite metals for traveling Hitachi like machines. The photograph is showing the tarred access road, provided at **Plate No. 9**.

Condition XI

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

The overburden excavated from the quarry is dumping in to three abandoned quarries within the site. The project converted a slope area of abandoned in to benches by systematically dumping the overburden. To prevent soil erosion this has covered with a *geotex* coir mat and planted grass. As part of eco - restoration, the project is intending to plant various saplings and medicinal plant on the prepared benches. The photograph of the overburden is attached as **Plate No. 10**.

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

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**.

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

Compliance:

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

14Mining depth should not exceed beyond 40m, unless otherwiseWillbespecifies or not below the level of nearest stream bedcompliedwhichever is less.

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.

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

Compliance:

The crusher unit is encircled by green belt. The solid brick housing of crusher and green belt is maintaining 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**.

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

Compliance:

Assurance in the form of affidavit was already submitted to SEIAA Kerala after getting the Environmental Clearance. The copy of the affidavit is attached at **Annexure No. 10.**

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

Compliance:

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

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

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 over flow water from the pond is released only through the top area and the outlet of the outward channel is protecting with steel mesh to trap the floating debris. This arrangement will prevent the quarry waste from the site to the mainstreams. The photograph showing the silt trap arrangement is attached at **Plate No. 13.**

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

Compliance:

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

Name of the Statutory	Name of the Statutory	Approval Number & Date
approval	authority	
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 : 14/3/2016
License for quarry operations	Karukutty Gram Panchayat	38/16-17 Dated:1/04/2016
Lease order	Directorate of Mining and Geology	660/2010- 11/9439/M3/2010 Dated : 3/1/2011

Table 4 The details of statutory approvals

ſ	20	In case of any change(s) in the scope of the project, the project	Will be	1
		would require a fresh appraisal by this authority.	complied	

Compliance:

The project will appear for a fresh appraisal, in case any change in the scope of the project.

21	The authority reserved the right to add additional safeguard	Will	be
	measures subsequently, if found necessary, and to take action	complied	
	including revoking of the environment clearance under the		
	provisions of the Environment (protection) Act, 1986, to ensure		
	effective implementation of the suggested safeguard measures		
	in a time bound and satisfactory manner.		

The project will execute all additional possible environmental protection safeguards if authority found it is necessary.

22	The stipulations by Statutory Authorities under different Acts	Will	be
	and notifications should be complied with, including the	complied	
	provisions of Water (Prevention and control of pollution) Act,		
	1974, the Air (Prevention and control of pollution) Act 1981, The		
	Environment (Protection) Act, 1986, the public liability		
	(Insurance) Act, 1991 and EIA notification, 2006.		

Compliance:

The project will assure to follow all relevant Acts and Notifications for quarrying activity.

23	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	Complied
	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.**

24	A copy of the clearance letter shall be sent by the proponent to	Complied
	concerned Gram Panchayat / District Panchayat / Municipality /	
	Corporation / Urban local Body and also to the local NGO, if	
	any, from whom suggestions / representations, if any, were	
	received while processing the proposal. The clearance letter	
	shall also be put on the website of the company by the	
	proponent.	

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.**

25	The proponent shall submit six monthly reports on the status of	Being
	compliance of the stipulated EC conditions including results of	complied
	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.

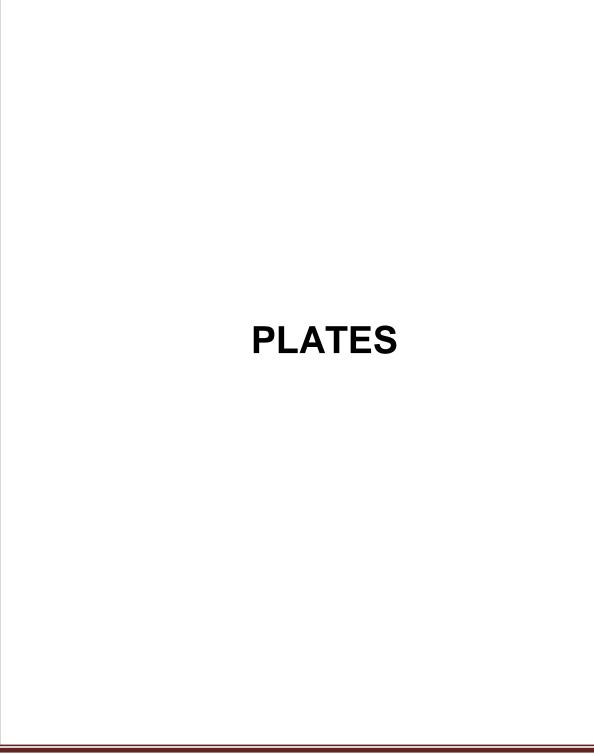
26	The conditions of the environmental clearance should be	Complied
	prominently displayed in a metallic board of 3 ft x 3 ft with	
	green background and yellow letters of Times New Roman fond	
	size of not less than 40.	

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

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

Compliance:

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





Drainage in the project site

Plate No.2



Rain water collection pond exist in the project site



Rain water collection tank

PLATE No. 3



The natural vegetation maintained along the roadside



Solar street lights installed near to the magazine

PLATE No. 5



Sprinklers Installed in the project area



Benches made by over burden and covered by coir mat

PLATE No. 7



Barbed metal wire fencing with a height of 5 meter





Device for alarm prior to the blasting



Sign board mentioned danger and time of blasting



Tarred road to the crusher unit

PLATE No. 10



Over burden managed within the site



Minerals explored with bench system of 5 m width and height

PLATE No.12

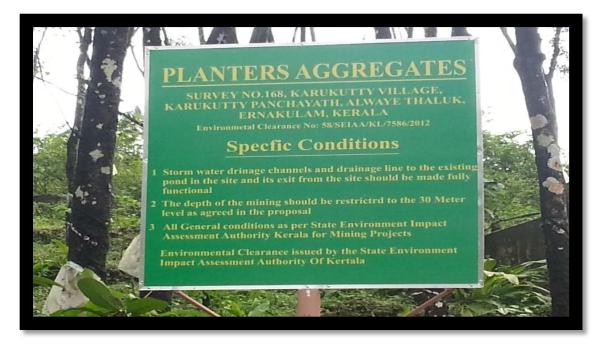


Crusher unit existing in the project site

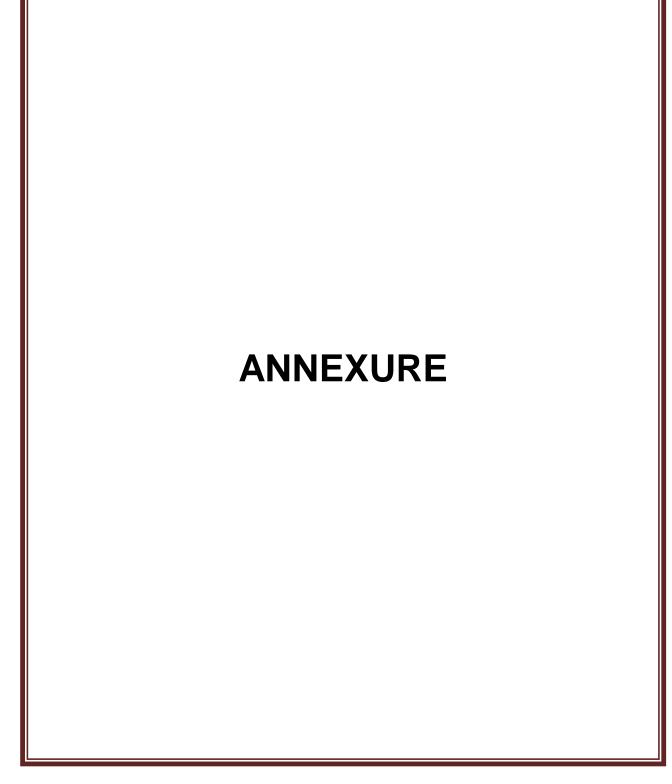


Slit trap to prevent quarry wastes entering in to the main stream

PLATE No. 14



Metallic board described the details of EC

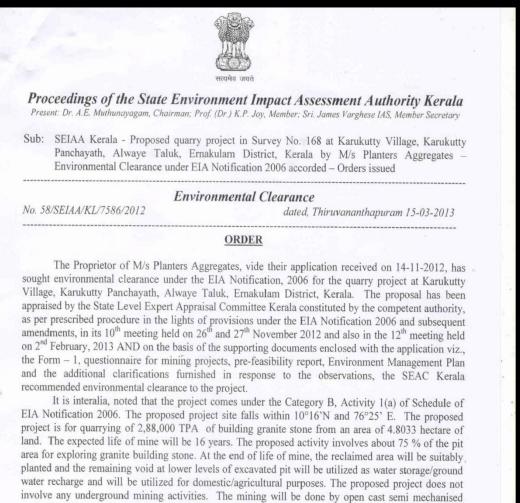


MIDZIABE AMONDEDIS PLANTERS AGGREGATES Eshattunughan P. O., Pin: 683.577 CASH VOUCHER CASH BANK PAYMENT VOUCHER an 10 11/16 as agim meres and flontons Agrisores 15tor/ QUIS PAYTO Shaff P.A. Munnasppilly. VCHR No. Vadaksaliana CHEQUE No paalus seno Medicaid Halp CHEQUE DATE ORAWNI ON nisonel mogram HEAD OF ACCOUNT NUPERS. Rs. 2000 ---or manamotor These thread lupers analy مأجا مستحدام PAGEDO ID anord ann of the ROAM DOM Shaju AR Brang man month & some - Ant als land wind the അങ്കമാലി എഡ്യൂക്കേഷണൽ സബ്ഡിസ്ട്രിക്ട് ക്രേരള സ്കൂൾ കലോത്സവം 2015 - 201 To and it (to gran in a mon Morum man in mo RECEIPT Ro-7500/ (m2-1 - Oxy 10/10 mon (hommy 1) of el alaz ouselo Date 1-12 No. 051 Received with thanks from planters Age gaters M Sand 20. WS 20my (1) a) 598 3 2) a) & Besmi. the sum of Rupees Two thousand and nost autolo Coon &m 2022. 2000 22-02-2016 ഹെഡ്മാസ്റ്റർ HFHS moaning Phone - 9846 194314 215154000 . വി.അൽഫോൻസാമ്മ കപ്പേള വെള്ളപ്പാറ ശ്രീ അയ്യപ്പ്പട്ടക്രാളി ക്ഷേത്രം പാലിശ്ശേരി ഏഴാറ്റുമുഖം തിരുനാൾ സംഭാവന കൂപ്പൺ ດໜາຫ້ londer Again migmi 14-01-2016 landen Jaji ശ്രീ./ശ്രീമതി.. പക്കൽ നിന്നും . 62-1 നന്ദിപൂർവ്വം കൈഷറ്റിയിരിക്കുന്നു.. 5000 300 കൺവീനർ 00014501

ANNEXURE No. 1

M Ai The kerala	IOOKKANNO ngamaly, Ernakul VALUE ADDED TA dealers - Manufact	OR - (am Dis	583 577 t., Kerala ES 2005 F	FORM NO. 8		
n No : 32150835494 ST No : 1508C003549				Tel	ephone : 0484-26 261	15449 5781
10 Dbootesaggiate	23 Supplie	1 invo	ice No.	: 1196	;	
to Immenul and		1		: 191:	3116	
TIN Arkhaltum		Purc	hase Ord	ler No. :		
CSTCell No		Terms of Payment : (If any)				
SI. Commodity No. 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	_
KS	26					
Rupees (in words)	i ena	•	9	Total	15600	
Truck NoName of	f Driver		10	Grand Total (9+10)	15600	
DECLARATION (TO BE FU Certified that all the particulars shown in the above the goods on which the tax charged and collected Act 2003 and the rules made there under. It is al 2003 is not subject to any suspension/cancellation	a Tax Invoice are true are in accordance w so certified that my/o n and it is valid as on	and cor with the p ur regist	ration under e of this bil	of the KVAT er KVAT Act I.	The K.S.R. MIL	

Receipts of activates under CSR



Involve any underground mining activities. The mining will be done by open cast semi mechanised method of mining. The bench height and width proposed is 5 m. The exploitation of mineral is being done from 145-30 m RL in conceptual phase. A total quantity of 24,000 m³ of top soil from two pits will be removed during the mining operations. The top soil excavated from the quarry shall be dumped separately at predetermined place and subsequently will be utilized in spreading over reclaimed areas for plantation. The top soil will be utilized for green belt development/plantation and will also be utilized for filling the low lying areas or adjacent quarry site. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The daily water requirement of 5 KLD will be met from storm water / bore well. There will be fugitive emissions generated during water sprinkling on haul road, green belt development, avoiding overloading of vehicles and limiting the speed of the vehicles. Excavated material is transported to the crusher located at a distance of 0.15 km from the quarry site for further processing.

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

Page 1 of 4

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

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

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

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

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

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

and Principal Secretary to Government Environment Department

To

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

Copy to :

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

Page 2 of 4

14	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 garbages 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 provisions 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)	Garland 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.
	Page 3 of 4

- (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 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. <u>The</u> <u>clearance letter shall also be put on the website of the company by the proponent</u>.
- (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 hard copies as well as by e-mail) and, upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xxvi) <u>The conditions of Environmental Clearance should be prominently displayed in a metallic board of 3</u> <u>ft x 3 ft with green background and yellow letters of Times New Roman font of size of not less than</u> 40.
- (xxvii) The proponent should provide affidavit that all the conditions stipulated in the EC shall be scrupulously followed.

Sd/-Member Secretary, SEIAA Kerala

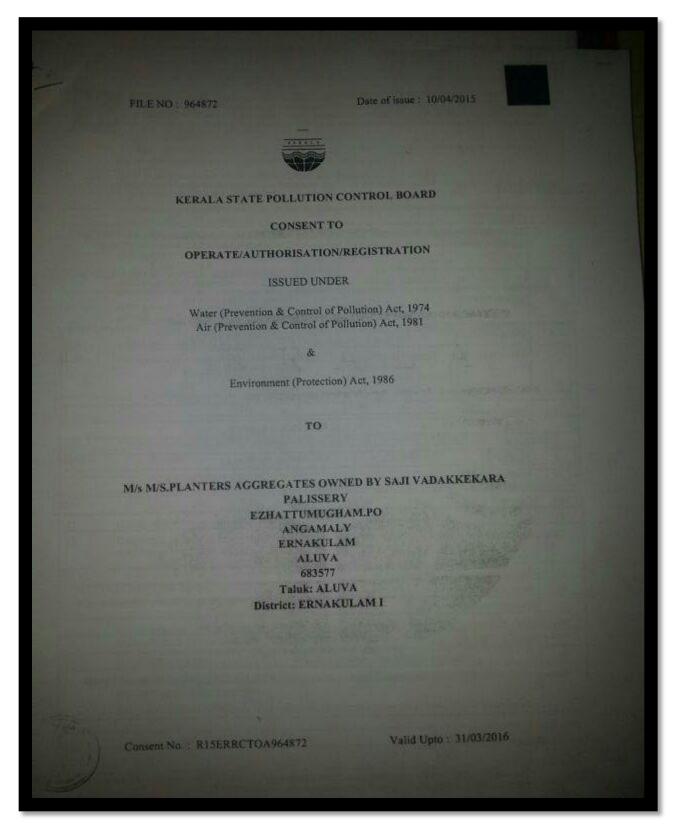
Page 4 of 4

EC order

Annexure No.3

and the second of the	भनजप्ति	प्ररुप एल. ई3 LICE	NCE FORM LE-3		
	(विस्फोटक नियम, 2008	8 की अनुसूची 4 के भाग ।	के अनुच्छेद 3(क) से (ध		
(ग) उपयोग के लिए	एक समय पर वर्ग 1.2.3.4.5 या	(d) of Part 1 of Schedule 1 वर्ग 7 के विस्फोटक या 1			
भनजप्ति में ताक क	Licence to possess : (c) for use, explosives of cla			
वार्षिक फीस रुपए (Annual)	: E/SC/KL/22/751(E33224) Fee Rs): 2400/-				20
1. Licence is hereby granted				भारत रकाम	-
Saji Vadakkaekara (3ff Ernakulam, Town/Villag	धभोगी / Occupier : Saji Vadal e - , District-, State-, Pincode -)	skaekara), Vadakkekara 682311	House, Mangattoor, Kol	* Govi India	
को अनुजम्ति अनुदत्त की 2. अनुजम्तिधारी की पास्थित	ो जाती है। ति Status of licensee : Individu	ral	1		
	ग्योजनों के लिए विधिमान्य है।	possess for u	use of Safety Fuse Or tonators, - के उपय (1)	timery Decondate. Nitr	Ate Mixture,
 अनुजपित विस्फोटकों के f 	निम्नलिखित किस्मॉ, प्रकार और flowing kinds and quantity of ex	मात्रा के लिए विधिमान्य	1000	al Stolostves, C2, 45	
Frank in the lot are to	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	HUF W. HIJOH	मय मे
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one	e time
1.	Nitrate Mixture Electric Detonators	2,0 6,3	0	150 Kg 2500 Nos.	
3.	Safety Fuse	6,1	0	2500 Mtrs	
0!	Ordinary Detonator	6,3	0	2500 Nos.	*******
 (ख) किसी एक कलेंडर मास (b) Quantity of explosives to 	में खरीदे जाने वाले विस्फोटक की > be purchased in a calendar month	मात्रा (अनुच्छेद ३(ख) और । (applicable for licence under	(ग) के अधीन अनुजप्ति के rarticle 3(b) and (c)]	ন নিয়	20 times as above.
 निम्नलिखित रेखाचित्र (रेय 	जाचित्रों) से अनुज्ञप्त परिसर की Il conform to the following drav	पुष्टि होती है।		1 No.) E/SC/KL/22/751(2/2005	E33224)
 अनुजप्ति परिसर निम्नलि 	खित पते पर स्थित है। The lic (Town/Village) : Karukutty		d at following address:		Station) - Kaushum
जिला (District) दरभाष (Phone)	ERNAKULAM	राज्य (State) इ. मेल (E-Mail)	Kerala	पालस थाना (Police पिनकोड (Pincod फैक्स (Fax)	Station) : Karukutty (c)
7 अनुज़प्ति परिसर में निम्न	लिखित सुविधाएं अतर्विष्ट है।		e portable magazine a		gazine
आतेरिक्त शतों और निम्न	sist of following facilities. Iर यथासंशोधित विरूफोटक अधि लिखित उपाबध्दों के अधीन रह. ect to the provision of Explosiv	ते हुए अनुदत्त की जाती	专1		
and the conditions, addition	nal conditions and the following में यथा कथित रेखाचित्र (स्थान	g Annexures.			in trained incre inder
Drawings (showing	g site, constructional and other	details) as stated in serial	No. 5 above.	in Zoli	
	िव्दाररा हस्ता क्षरित इस अनुज् ditional Conditions of this licen				
3. दूरी प्ररूप DE-2 D	Distance Form DE-2.			1 A Court 2007	
	ार्च 2007 तक विधिमान्य रहेगी। ग उसके अधीन विरचित नियमं				रणित तम भरत्वनिक
की शतौं का अधिक्रमण कर	ने या यदि अनुज्ञप्त परिसर यो				
प्रतिसहत की जा सकती है, This licence is liable to be so under Set VIII, wherever app	uspended or revoked for any vi plicable, referred to in Part 4 of	olation of the Act or Rule f Schedule V or if the lie	es framed there under o ensed premises are not	r the conditions of this found conforming to the	licence as set forth e description shown in
the plans and Annexure attac					
तारीख The Date - 27/12/20	005	संयुक्त	त मुख्य विस्फोटक निय		Sd- ntroller of Explosives South Circle, Chennai
Amendments :	Evolocives/Monthly Durahara	Limit dated - 20/01/2011			a final and the second
Amendment of Quantity of I	Explosives/Monthly Purchase Explosives/Monthly Purchase Explosives/Monthly Purchase	Limit dated : 30/06/2011		0	
	नवी	नीकरण के पृष्ठांकन के pace for Endorsement of	लिए स्थान	the 1	$ \land $
नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry		अनुज्ञापन प्राधिकार Signature of licer	ो के हस्ताक्षर और स्ट	np
14/03/2016	31/03/2021			r of Explosives, Ernak	and the second second second
			कृते सप मुख	य चिरफोटक निय a Controller of Explo	ल्लक
			ुरनाणुलम हल		
(A)			-		

License to possess and use of Explosives



GEN	SERAL	
-	VALIDITY	11/03/2010
2	Name and Address of the establishment	M/S.PLANTERS AGGREGATES OWNED BY SAJI VADAKKEKARA PALISSERY EZHATTUMUGHAM.PO ANGAMALY ERNAKULAM ALUVA 683577 ALUVA ERNAKULAM 1
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	ERNAKULAMI
9	Pancheyat /Municipality/ Corporation & Ward	KARUKUTTY PANCHAYATH
10	Category	RED
11	Scale	Small
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
16	Mode of Disposal of Treated Effluent	NA
17	Effluent Treatment Details	NA
COMUNE	RAW MATERIAL	PRODUCTS
18	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 floard to review and make suration in or revoke allor any of the condition as the Board deems fit.

2	This conse For renew the preserv Managero late fee as	al of the consen bed form shall t ent & Monitorin applicable	rawn earlier and subjec t in case of continuance re submitted to the thro g System on or before	t to condition r s of discharge/c ugh the web po Late application	no.2.1, shall b operation of th stal of the Bo on will be acc	e valid upto te industry, t ard for Onlir epted only w	21/03/2016 pplication in te Consent tils a fine /		
3	The applie	ant shall count	with the instructions t of air, water, land and			n time to tim	e regarding		
А	No change Board, Ar	or alteration of	the industrial plant is t	acana pontación	in the second second				
3	If operatio		h backing actions the second state to be a feature of the						
	In case of	process disturbe and shall not be	ince / failure of pollution restarted until the con	n control equip trol measures a	ments, the rea	spective unit achieve the	s shall be desired		
2.7	In case of accident	discharge / appr or other unforese	ehended discharge of a en act or event, it shall Il make all possible effi	he immediately	a infimated to	the Boatd an	d the		
2.8	Arrangen	tents for collection	on, segregation, storage and maintained propert	handling and					
2.9	E-waste	hall be disposed	in an environmentally or before 3151 Decem	mund manner	The following	g details shal	lbe		
SLNO.	Particul	irs of e-waste	Quantity of e-waste disposed in the previous year	Quantity o proposed to disposed in year		Mode of di	sposal		
1	NA	- Martin Street and	NA	NA		NA			
2.10 Statutes		cal reports as det: Details	ailed below shall be sub Mode of collection		spective Distr riodicity	Form	2,023		
-station (reades)		smerens	and analysis	Analysis	Submissio	ARS-CAR	1000		
NA		NA	NA	NA	NA	NA	10 M		
2,11 2,12	100000000000000000000000000000000000000	ble sources of end	ation measures shall be rgy such as solar energ	and the second second	and the second	; and heating	wherever		
3. CO	Water(Pre	vention and Co	ontrol of Pollution)A	dustry, Effluen	7 shall be fun	ctional at all	times during		
	In case o treatmen the open	t units having add	equate capacity as listed try. Additional facilities	required if an	y, to achieve t	ne sumumas	Inid DOWN		
The	In case of treatment the open by the B There sh	t units having ad- stion of the indus oard u/s 17(1)(g) all be easy access	try Additional facilities of the Water Act shall a s to each and every efflu	required, if an	ong with.				
The 3.1	In case of treatmen the open by the B There sh and draw	t units having ado ation of the indus oard u/s 17(1)(g) all be easy access ring of effluent so	try Additional facilities of the Water Act shall a s to each and every efflu	required, if an ilso be made al ent treatment u	ong with. mit and the fir	nal outlet for	inspection		
The 3.1 3.2 3.3	In case o treatmen the open by the B There sh and drav The char	t units having ado ation of the indus oard u/s 17(1)(g) all be easy access ring of effluent so	try. Additional facilities of the Water Act shall i s to each and every efflu imples. uent after treatment sha	required, if an ilso be made al ent treatment u	ong with. mit and the fir re following to	nal outlet for olerance limi	inspection		
The 3.1 3.2	In case o treatmen the open by the B There sh and drav The char	t units having ad- ation of the indus ourd u/s 17(1)(g) all be easy access ving of effluent si acteristics of effl racteristics	try Additional facilities of the Water Act shall a s to each and every efflu imples.	required, if an ilso be made al ent treatment u	ong with. mit and the fir re following to	nal outlet for	inspection		

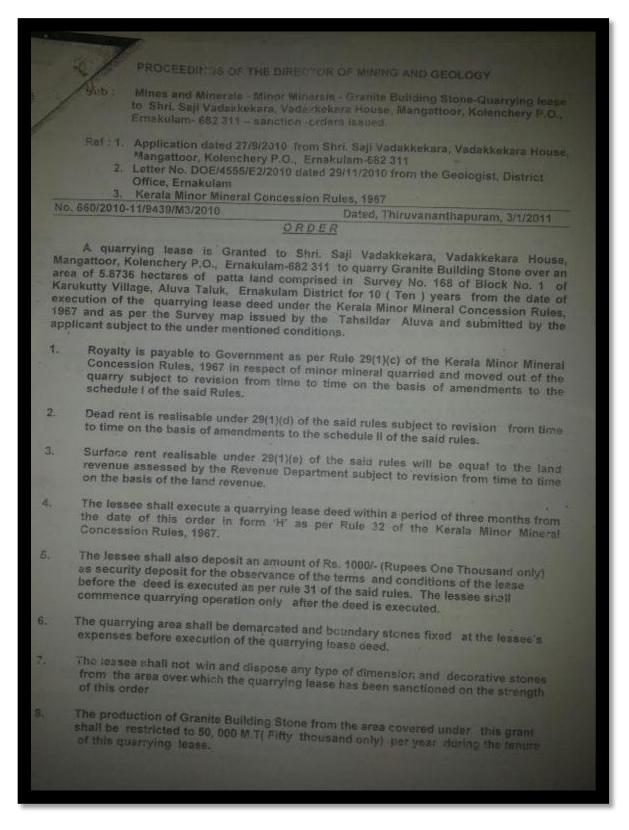
3.4	Water meter shall be fixed to r differential rates is claured for effluent is easily biodegradable	ecord consumption of w ruse of water such as co	oling/boiler feed, oceas where the e	tors solute be tracked of even an domestic, process where sol
1.5	Diodegradable and or toxic.			idge generated from the ETP, if
	uny.			
3.6	Adequate sanitation facilities s	shall be provided for the	emplayees.	
	DITIONS AS PER Mr(Prevention and Control o	f Pollution)Act, 1981		
4.1	. Following emission control e	equipments shall be insta	illed and operated	whenever emission is made:
SLNO	Source of Emission	Stack Height	AND IN COMPANY	Control Equipment
		Above Ground Level	Above Roof Level	
Capacity	Emission Rate	[Nm3/hr		Unit
4.2	Emission characteristics shall	not exceed the followin	8:	
SINO	December		Timiting Sta	ndards mo/Nm3
SLNO	Parameter		and the second s	ndards mg/Nm3
<u>SLNO</u> 1	Parameter NA		Limiting Sta	ndards mg/Nm3
	NA All stacks shall have adequate monitoring of emissions		NA ort hole and platfo	orm cum ladder to facilitate
1	NA 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 adary of the premises sh	NA ort hole and platfo ing of dust outside all not exceed the	orm cum ladder to facilitate e the premises: Particulate matter standards applicable to the
4.3	NA All stacks shall have adequate monitoring of emissions Water sprinklers shall be prov (PM 10 & PM 2 5) at the bour	ided to suppress spread adary of the premises sh	NA ort hole and platfo ing of dust outside all not exceed the	orm cum ladder to facilitate e the premises: Particulate matter standards applicable to the
1 4.3 4.4	NA All stacks shall have adequate monitoring of emissions. Water sprinklers shall be prov (PM 10 & PM 2 5) at the bour adjoining area. Raw materials shall be transpo during transportation. There shall be no fugitive emi	ided to suppress spread ndary of the premises sh orted with proper cover ssion from the premises	NA ort hole and platfo ing of dust outside all not exceed the or after wetting to i.	orm cum ladder to facilitate e the premises. Particulate matter standards applicable to the prevent spreading of dust
1 4.3 4.4 4.5	NA All stacks shall have adequate monitoring of emissions. Water sprinklers shall be prov (PM 10 & PM 2 5) at the bour adjoining area. Raw materials shall be transpo during transportation. There shall be no fugitive emi The sound level measured 1 m applicable to the adjoining are	ided to suppress spread adary of the premises sh orted with proper cover ission from the premises n outside the boundary o to.	NA ort hole and platfo ing of dust outside all not exceed the or after wetting to sof the premises shi	orm cum ladder to facilitate e the premises. Particulate matter standards applicable to the prevent spreading of dust all not exceed the standards
1 4.3 4.4 4.5 4.5	NA All stacks shall have adequate monitoring of emissions. Water sprinklers shall be prov (PM 10 & PM 2 5) at the bour adjoining area. Raw materials shall be transpo during transportation. There shall be no fugitive emi The sound level measured 1 m applicable to the adjoining are All operations likely to produc	ided to suppress spread adary of the premises sh orted with proper cover ission from the premises n outside the boundary (ta, ce dust or noise shall be	NA ort hole and platfo ing of dust outside all not exceed the or after wetting to i. of the premises shi carried out within	orm cum ladder to facilitate e the premises. Particulate matter standards applicable to the prevent spreading of dust all not exceed the standards in appropriate enclosure.
1 4.3 4.4 4.5 4.5 4.6 4.7	NA All stacks shall have adequate monitoring of emissions. Water sprinklers shall be prov (PM 10 & PM 2 5) at the bour adjoining area. Raw materials shall be transpo during transportation. There shall be no fugitive emi The sound level measured 1 m applicable to the adjoining are	ided to suppress spread adary of the premises sh orted with proper cover ission from the premises n outside the boundary of the ce dust or noise shall be	NA ort hole and platfo ing of dust outside all not exceed the or after wetting to be of the premises sho carried out within of fuel, if any, sh	orm cum ladder to facilitate the premises. Particulate matter standards applicable to the prevent spreading of dust all not exceed the standards n appropriate enclosure. all be maintained and abstract
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Hazardous Waste	Schedule Category	Quantity Tonne/year
520 VALUE 11	Mode of	Disposal
Storage	1	
Records of Hazardous Waste The occupier shall ensure tha accordance with the provisio	s generated, if any, shall be maint it the hazardous wastes are transpo ns of the Rules.	ained in FORM-J. orted to authorized recycler/Tacility in
DITIONAL CONDITIONS		
earrying activities shall be done vehicular traffic. consent to operate is issued in a igement dated 23/03/2015 in W Quarrying activities shall be can	compliance with judgement dat	s/public building/rivers/Road having ed 18/12/2014 in WP(c)no:25367/2014 WP(c)s.
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Concent to Operate from Kerala Pollution Control Board

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License from Gram Panchayat



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 in scripted on the notice board both in English & Malayalam For information: Licence No Quantity permitted Validity period of the Name of permit/ to be extracted permit lease holder 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. The lessee should leave a distance of 7.5 m from the adjacent boundary lands 11 while carrying out quarrying operations. The lessee should not assign, sublet or transfer his lease or any right or interest 12. 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., Ernakularn-682 311 Copy to : The Director of Mines Safety, Bangaluru Region, No. 27, 24th Main, 1. Next to IDBI Bank, V Phase, J.P. Nagar, Bangaluru- 560 078 The District Collector, Ernakulam The Geologist, District Office : Ernakulam The Tahsildar Aluva Stock File (2) File Copy (By Order) Senior Superintendent

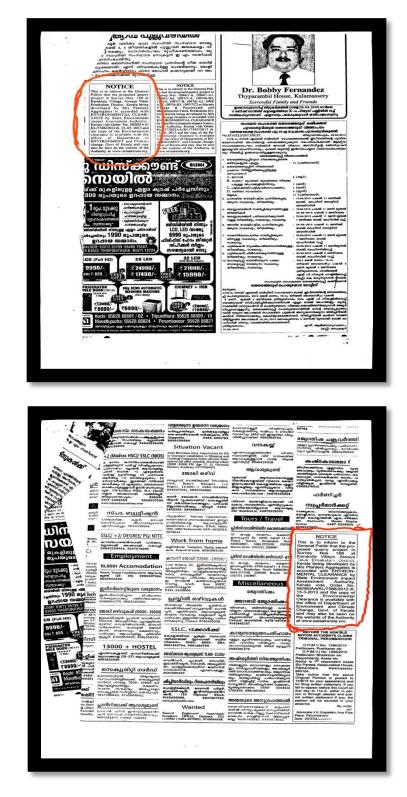
Lease order from Directrotre of Mining and Geology

Cert No. SMR/48 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 सामित) (Restricted to mines having opencast workings only) (धात्विकीय खान विनियम, 1961 के अन्तर्गत) (Under the Metalliferous Mines Regulations, 1961) श्री कंकोणकर कमलाकान्त मंगेरा सुपत्र मंगेरा थीं 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 एतदुद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंध हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है । यह प्रमाण-पत्र दिनांक05.04. 2011 से प्रभावी है । Shri Kankonicar Kamlakant Mangukon of Mangesh B Kankonkar born on 21 st January, 1971 having given satisfactory evidence of pos 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 MININGE आध्यक्ष सचिव खनन परीक्षा बोर्ड खनन परीक्षा बोर्ड Chairman Secretary Board of Mining Board of Mining Examinations Examinations Signed and Sealed Date 12.08-11.

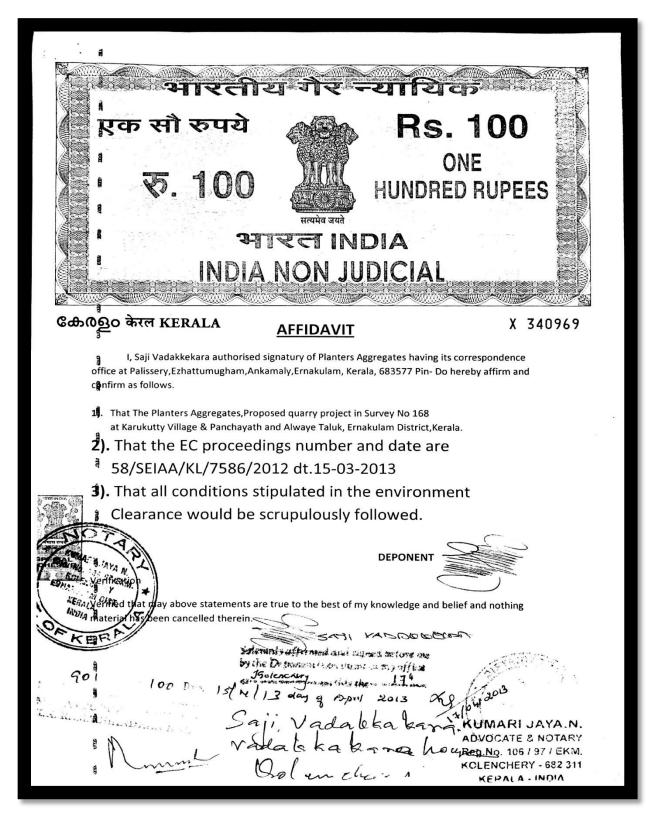
Certificate of second class manager

Cert No. MR/SZ/599 भारत सरकार/Government of India UL ANTHO 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) श्री है, को अपनी जिनकी जन्म तिथि आयु स्वस्थता, सदाचार, साक्षरता और धात्विकीय खानों में काम करने के विहित अनुभव का सन्तोषजनक प्रमाण केन्द्र पर आयोजित प्रस्तुत करने एवं दिनांक विहित परीक्षा में उत्तीर्ण होने पर एतद्द्वारा केवल ओपेनकास्ट खानों तक सीमित मेट सक्षमता प्रमाण-पत्र प्रदान किया जाता है। son of GEORGE D. Shri DAVIS GEORGE having given satisfactory evidence of his age. born on 31ST MAY, 1969 (SIXTY NINE) medical fitness, good character, literacy and prescribed experience of working in metalliferous mines and having passed the prescribed examination held at examination held at is herby granted MINING MATE'S CERTIFICATE OF centre on 23.03.2015 COMPETENCY restricted to mines having opencast workings only. बाएं , , , ठ का निशान Left hand thumb impression अंचल सचिव अंचल सचिव खनन परीक्षा बोर्ड खनन परीक्षा कोई Zonal Secretary Zonal Secretary Board of Mining Board of Mining Southern Zone, Bengaluru

Certificate of Mining mate



Advertisement in two news paper



Affidavit

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		54.0 dB (A) RESULTS	.00 Hrs 52.9 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 49.7 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 49.7 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 45.1 dB (A) Ambient Sound Level (Leq) Nighttime 51.9 dB (A) .00 Hrs 39.5 dB (A) Ambient Sound Level (Leq) Nighttime 35.9 dB (A) .00 Hrs 39.1 dB (A) Ambient Sound Level (Leq) Nighttime 35.9 dB (A)
6.00 Hrs 52.5 dB (A) Ambient Small Bar		53.1 dB (A)	00 Hrs 49.7 dB (A) 00 Hrs 45.1 dB (A) 00 Hrs 42.3 dB (A) 00 Hrs 39.5 dB (A) 00 Hrs 39.1 dB (A)
No. of the second sec	aytime 51.0 dB	53.1 dB (A) 52.5 dB (A)	00 Hrs 45 1 dB (A) 00 Hrs 42 3 dB (A) 00 Hrs 42 3 dB (A) 00 Hrs 39 5 dB (A) 00 Hrs 39.1 dB (A)
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	ghttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A)	the state
Hiller J. Ch	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 45.1 dB (A) 39.5 dB (A) Ambient Sound Level (Leq) Daytime S1.0 dB (A) 39.5 dB (A)	
	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	Eald of Report.
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	For and on bake	53.1 dB (A) 52.5 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	For and on behalf Standard' Environmental & Analytical Laboratorie
50	For and on bake	53.1 dB (A) 52.5 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	For and on behalf of Standard' Environmental & Analytical Laboratorie
	For and on bake	53.1 dB (A) 52.5 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	Standard' Environmental & Analytical Laboratorie
500 Hrs 53.1 dB (A)		53.1 dB (A)	00 Hrs 53.1 dB (A) 00 Hrs 52.5 dB (A) 00 Hrs 52.9 dB (A) 00 Hrs 52.9 dB (A) 00 Hrs 49.7 dB (A) 00 Hrs 45.1 dB (A) 00 Hrs 39.5 dB (A) 00 Hrs 39.5 dB (A) 00 Hrs 39.1 dB (A)
		54.0 dB (A) RESULTS	60 Hrs 52.5 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 49.7 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 49.7 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) .00 Hrs 45.1 dB (A) Ambient Sound Level (Leq) Nighttime 51.0 dB (A) .00 Hrs 42.3 dB (A) Ambient Sound Level (Leq) Nighttime 35.9 dB (A) .00 Hrs 39.5 dB (A) Ambient Sound Level (Leq) Nighttime 35.9 dB (A)
		53.1 dB (A)	00 Hrs 49.7 dB (A) 00 Hrs 45.1 dB (A) 00 Hrs 42.3 dB (A) 00 Hrs 39.5 dB (A) 00 Hrs 39.1 dB (A)
7.00 Hrs 52.9 dB (A) Ambient Sound Level (Leq) Daytime	aytime 51.0 dB	53.1 dB (A) 52.5 dB (A)	.00 Hrs 49.7 dB (A) 00 Hrs 45.1 dB (A) 00 Hrs 42.3 dB (A) 90 Hrs 39.5 dB (A) Ambient Sound Level (Leq) Nighttime 35.9 dB (A) 00 Hrs 39.1 dB (A)
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Ambient Sound Louis (1)		53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A)	00 Hrs 39.1 dB (A)
	shitime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A)	
	ighttime 35.9 dB	53.1 dB (A) 53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 45.1 dB (A) 39.5 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) 45.1 dB (A) 45.1 dB (A)	
End of Report	ighttime 35.9 dB	53.1 dB (A) 53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 45.1 dB (A) 45.1 dB (A) 39.5 dB (A) Ambient Sound Level (Leq) Daytime 51.0 dB (A) 45.1 dB (A) 45.1 dB (A)	***End of Report***
	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	***End of Report***
	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	***End of Report***
	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	Eald of Report.
	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	
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	ighttime 35.9 dB	53.1 dB (A) 52.5 dB (A) 52.9 dB (A) 49.7 dB (A) 45.1 dB (A) 42.3 dB (A) 39.5 dB (A) 39.1 dB (A)	with or reput

Result of ambient sound level

Test	Report No: SEAAL,	1512/	R071 Da	e: 28.12.2	2015		Page 1 of 1
1000			And the second s				
			CUSTOMER DI		nters Age		
		Nan	ne & Address	Karukut	ity, Aluva, am Distri		
		Sur	vey No	168, Blo	ck - 1		
Custo	mer Details	Ville	rits.	Karukut			
		Pan	chayath	Karukut	ty		
		Tah		Ahiva			
		Dist		Ernakul			
		Stat		Kerala			
Custo	mer Reference	Test	Request form dated 23,12.				
			SAMPLE DET	AILS			
Sourc	e of Sample	Amt	nient Air	Sample (AL/1512/8071
Locati	on of Monitoring	Nea	r East Side Boundary	Sampled	By		
Date o	of Monitoring	23.1	2.2015	Test Star			12.2015
Samp	le Received On	and the second	2.2015				12.2015
Huma	lity	719		Samplin	g Procedu	re IS 5	182 Part V & XIV
SL NO	TEST PARAME	TER	TEST METHOD IS 5182 Part 23: Reaff 20			RESULT	S NAAQ STANDAR
10	Particulate matter	(PM 10)	SEAAL/SOP/01 Issue No Dated 05.06.2015			58.1	
02	Particulate matter	Dated 05.06.2015		.01			60.0
03	Sulphur dioxide (S	02)	IS 5182 Part 2: Reaff. 20. SEAAL/SOP/03 Issue No Dated 05.06.2015	.01	ug/m³	6.3	
04	Nitrogen dioxide ()	(O2)	15 5182 Part 6: Reaff.201 SEAAL/SOP/04 Issue No Dated 05.06.2015		hg/m ^a		80.0
			***End of Re	portes			
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				Standar	d' Enviro	amental a	Analytical Laborato
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							Authorized Signa

Result of ambient air

Test	Report No: SEAAL/1512/I	R072	Date: 28.12.201	5		Page 1 of 2
		CUSTOMER I	DETAILS			
			M/s Planters Agg Karukutty, Aluva, Ernakulam Distri			
		Survey No	168, Block - 1			
Cust	omer Details	Village	Karukutty			
		Panchayath	Karakutty			
		Taluk	Aluva			
		District	Ernakulam			
		State	Kerula			
Cust	omer Reference	Test Request Form dated 2	3.12.2015			
		SAMPLE DI				
Sam	ple Code	SEAAL/1512/8072	Sample Received		24.12.201	
Sam	ple Name	Water	Sampling Procedu		SEAAL/M	ISP/24
Sam	ple Description	Borewell Water	Sampling Locatio			
Iden	tification By Customer				Good 24.12.20	
Sam	pled On	23.12.2015	Test Started On		26.12.20	
Sam	pled By	By Laboratory	Test Completed (20.12.20	
SL	TEST PARAMETER	TEST METHOD	UNITS	RES	ULTS	(IS 10500 - 2012)
01	Colour	18 3025 Part 4: Reaff, 2012	Hazen Unn			5.0 (Max)
02	Odour	IS 3025 Part 5: Reaff. 2012				Unobjectionable
03	Turbidity	18 3025 Part 5: Reaff. 2012	NTU			
04	pH @ 25 °C	15 3025 Part 11: Reaff. 201.			51	6.5 - 8.5
05	Total Dissolved Solids	IS 3025 Part 16: Reaff. 201				SOO (Max)
06	Total Hardness (as CaCOs)	IS 3025 Part 21: 2009	mg/L			200 (Max)
07	Calcium (as Ca)	18 3025 Part 4: Reaff. 2009				75.0 (Max)
08	Magnesium (as Mg)	IS 3025Part46: Reaff. 2009				30.0 (Max)
09	Chloride (as Cl)	18 3025 Part32: Realf. 2004				250 (Max)
10	Total Alkalinity (as CaCOs)	IS 3025 Part 23 ; Realf. 200	the second se			200 (Max)
11	Iron (as Fe)	IS 3025Part 53: Reaff. 2004				0.30 (Max)
12	Sulphate (SO4)	IS 3025Part 24: Realf. 2004	mg/L	1	15.1	200 (Max)
		End o	d Report Standa	nd" Enviro		For and on both

		and the second	te: 28.12.2015		Page 2 of 2
SL No	PARAMETERS TESTED	TEST METHOD	UNIT	RESULT	ACCEPTABLE LIM (IS 10500 - 2012
13	Fluoride (as F)	18 3025 (Part 60)	mg/L	BDL	1.0 (Max)
14	Arsenic (as As)	APHA 31110	mg/L	BDL	0.01 (Max)
15	Copper (as Cu)	APRA 3111B	mg/L	BDL.	0.05 (Max)
16	Manganese (as Mn)	AP91A 3111B	mg/L	BDL	0.1 (Max)
17	Cadmium (as Cd)	АРНА 31110	mg/L	UDL	0.003 (Max)
18	Chromium (as Cr)	АРНА 3111В	mg/L	BDL	0.05 (Max)
19	Zinc (as Zn)	арна 31118	mg/L	BDL	5.0 (Max)
20	Mercury (as Hg)	APHA 3111D	mg/L	BDL	0.001 (Masd
21	Cyanide (as CN)	APHA 3111B		BDL	0.05 (Max)
22	Lead (as Pb)	APHA 31118	mg/L	BDL	0.01 (Max)
23	Aluminium (as Al)	APHA 3111B			0.03 (Max)
24	Total coliform bacteria	15 1622 - 1981	MPN/100ml		
25	E - Coli	15 1622 - 1981		Absent	
		***End of R			For and on beta Analytical Laberat Analytical Laberat Authorized Micro

Result of drinking water