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PANACHAYIL INDUSTRIES
West Othera P O, Tiruvalla, Kerala, India - 689 551
Ph:+91 - 469 2743300, Fax:+91 - 469 2743330
Email: mail@poabs.com, www.msand.in

The Director, DoECC & Secretary SEAC Kerala **22- 07- 2015**
Devi Kripa, Pallimukku , Pettah P.O,
Thiruvananthapuram
Kerala – 695024.

Sub: Environmental Clearance – Proposed quarry project at Sy. Nos. 21/6, 21/4, 10/2, 9/1-2, 9/1-3, 20/3, 23/7, 28/10-1, 23/5, Thottapuzhassery Panchayat, Thiruvalla Taluk, Pathanamthitta District, Kerala – Compliance report – Reg.

Ref: File No. NO: 34/SEIAA/KL/6089/2012.

Respected Sir,

Our quarry project was accorded with Environmental Clearance vide order No. 34/SEIAA/KL/6089/2012 dated 14-11-2012. Fifth compliance report to the specific and general conditions of the Environmental Clearance (hard copy and softcopy) for the period of January- June, 2015 is enclosed.

Thanking you,

Yours Respectfully,
M/s Panachayil Industries

Aby Mathew
(Managing Partner)

Copy to:

The Regional Director,
MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Banglore – 560034.

Factory: Charalkunnu, Kolabhagom P O, Thadiyoor Via, Pathanamthitta District, Kerala - 689 545, Ph: +91 - 469 2672240, Fax:+91 - 469 2672210, Email: tvla@poabs.in

COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 34/SEIAA/KL/6089/2012

DT. 14-11-2012

BY

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

PROPOSED QUARRY PROJECT

AT

SURVEY NOS. 21/6, 21/4, 10/2, 9/1-2, 9/1-3, 20/3, 23/7, 28/10, 23/5, THOTTAPUZHASSERY PANCHAYAT, THIRUVALLA TALUK, PATHANAMTHITTA DISTRICT, KERALA

BY

PANACHAYIL INDUSTRIES, WEST OTHERA PO, THIRUVALLA, PATHANAMTHITTA, KERALA

(January- June, 2015)

INTRODUCTION

M/s Panachayil Industries is a stone quarry located at Survey Nos. 21/6, 21/4, 10/2, 9/1-2, 9/1-3, 20/3, 23/7, 28/10, 23/5, Thottapuzhassery Panchayat, Thiruvalla Taluk, Pathanamthitta District, Kerala. The quarry project was accorded with the environmental clearance by state Environmental Impact Assessment Authority on 14-12-2012. Six month 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 January- June, 2015 (Fifth compliance report) is being submitted.

PART - A – SPECIFIC CONDITIONS

- **Condition 1)**

Assurance in the form of affidavit should be given to SEIAA Kerala that eco-restoration including the mine closure plan shall be done at the expenses of the project proponent on completion of mining.

Compliance:

Assurance in the form of affidavit was submitted to SEIAA Kerala on 17/10/2013 that eco-restoration including the mine closure plan shall be done at our expenses. The copy of the affidavit is enclosed as Annexure No.1. After the closure of the mine, ten percent of the excavated pit area will be maintained as water storage area. In the remaining area, it is planned to develop a green belt with indigenous plant species after reclaimed with stacked dumping and overburden. Grass and Shrub species with strong root system will be planted in the foot hills.

- **Condition 2)**

Quantity of overburden and their storage shall be provided to SEIAA Kerala before initiating activities.

Compliance:

Amount of overburden and their storage are already provided to SEIAA Kerala. The quantity of topsoil is estimated to be 11,204m³. The excavated top soil is stored separately in a prefixed location and the stored soil is stabilized by planting grasses and herbs on them. List of plant species used for the stabilization of topsoil and disturbed areas are as follows.

Sl. No	Botanical Name	Common Name	Family	Distribution
1	*Axonopus compressus* (Sw.) P. Beauv.	Kaalappullu/Carpet Grass	Poaceae	Tropics and subtropics
2	*Cymbopogon cintratus*	Vetiver/Ramacham	Poaceae	

Some portion of the topsoil is using for the reclamation of abandoned quarry in the project site and some portions are selling to railway widening projects. The photographs showing top soil storage area is provided at Annexure No.2.

- **Condition 3)**

Plan clearly showing the internal roads within the project site to be submitted to SEIAA Kerala before initiating activities.

Compliance:

Internal road system within the project area is maintained well. There is about 1.5 km of roads having 7.0m width is present within the project area. Plan showing the internal road system within the project area was submitted to SEIAA. Copy of the submitted surface plan showing the internal roads within the project site is enclosed as Annexure No. 3.

- **Condition 4)**

Specific methodology adopted for drilling and blasting and also the geometry of drill holes to be given to SEIAA Kerala before initiating activities.

Compliance:

Blue metal stone excavation is proposed by excavators. The mineral is fractured and easily exploit by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The specific methodology adopted for drilling, blasting and the geometry of drill holes is provided at Annexure No.4.

- **Condition 5)**

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

Compliance:

For channelizing the storm water, garland drains are provided in the lower slopes of the core area and the photographs of the same is provided at Annexure No.5.

- **Condition 6)**

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

Compliance:

In the project area, an excavated pit is using as Storm water collecting pond and from the entire project area storm water is channelized in to it. During this storage, debris/silt is sedimented in to the bottom of the pit. This pit is

opened in to garland drain system and the opening is guarded with metallic net trap which will arrest the passage of debris and silt from quarry site to the main streams. Debris and silt from the storm collecting pond are removed and disposed periodically. The photographs of the same are provided at Annexure No.6.

- **Condition 7)**

Dust and sound level should be as per the prescribed standards applicable to the area.

Compliance:

Dust and sound levels are monitored periodically through NABL recognized laboratory (Polluchem Laboratories (P) LTD, Ernakulum) during the quarry in operation and the monitored results are well within the standards applicable. Average ambient sound level in day and night time is 51.0dB and 35.1dB respectively. Values of Particulate matters PM_{10} and $PM_{2.5}$ are 60.6µg/M^3 and 29.3µg/M^3 correspondingly. Sulphur dioxide and Nitrogen dioxide values in the air are 2.4µg/M^3 and 3.5µg/M^3 respectively. The copy of the ambient air quality analysis report, ambient noise monitoring report and water quality report are provided at Annexure No. 7, 8 and 9 respectively.

- **Condition 8)**

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.

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 size of not less than 40 is installed. The photograph of the display board is provided at Annexure No. 10.

PART – B – GENERAL CONDITIONS

- **Condition i)**

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

Compliance:

Rainwater harvesting systems are provided in the project area. Harvesting system consists of 3 excavated (1, 2 and 3) pit each having the capacity of 640000, 480000 and 720000 liters respectively and one harvesting tanks constructed with stone masonry wall having the capacity of 160000 liter. Details of the rainwater harvesting system are as follows.

Sl. No.	Type	Length (m)	Width (m)	Height (m)	Capacity (L)
1	Excavated Pit 1	20	8	4	640000
2	Excavated Pit 2	16	6	5	480000
3	Excavated Pit 3	24	10	3	720000
4	Concrete Tank	8	5	4	160000

Photograph of the rainwater harvesting system as enclosed as Annexure A.

- **Condition ii)**

Environment monitoring cell should be formed and made functional.

Compliance:

An environmental monitoring cell was formed with Mr. Aby Mathew (Managing Partner of the Company) as head of the monitoring cell and made functional. Meeting of monitoring cell is arranged monthly and discus the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below.

Sl. No.	Post	Name
1	Head of the monitoring cell (Managing Partner of the Company)	Mr. Aby Mathew
2	Head in charge (Environment)	Mr. VT Thomas
2	Senior Environmental Officer	Mr. Rinoy Varghese
3	Environmental Officer	Mr. Navin Xavier
4	Name of the environmental officer in charge at Site	Mr. P. Rajeev
5	Name of the officer of Environment, Health and safety at Site	Mr. Suneesh C.S
6	Name of the Asst. officer of Environment, Health and safety at Site	Mr. Roy K.P

7	Name of the environmental consultant	M/s Enkay Enviro Services Pvt. Ltd. & M/s Environmental Engineers & Consultants Pvt. Ltd
8	Address of Environmental laboratory	M/s Poluchem Laboratory Pvt. Ltd.

- **Condition iii)**

Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any.

Compliance:

There is natural vegetation including trees, shrub and herbs along the sides of tarred road and parking areas. We planted the area with less vegetation with tree saplings and a nursery is maintaining for further plantations. Photographs showing the same is provided at Annexure No. B. Details of the tree species planted as follows

Sl. No.	Scientific Name	Common Name	Family
1	*Syzygium cumini* (L.) Skeels	Black Plum	Myrtaceae
2	*Cassia fistula* L.	Indian Laburnum/ Kanikkonna	Fabaceae
3	*Polyalthia longifolia (Sonn.) Thwaites*	Arnanamaram	Annonaceae
4	*Acacia mangium Wild*	Mangium	Leguminosae
5	*Mangifera indica* L.	Mango tree/ Mavu	Anacardiaceae

- **Condition iv)**

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

Compliance:

Solar Energy device and biogas plant are installed in the project area. Three solar light systems were installed in mines and magazine area. Biogas plant is associated with canteen and is used for kitchen purposes. Photograph showing the same is enclosed as Annexure B1.

- **Condition v)**

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

Compliance:

Would be complied

- **Condition vi)**

The authority reserves the right to add additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the environmental (protection) Act 1986, to ensure effective implementation of the suggested safe guard measures in a time bound and satisfactory manner.

Compliance:

Would be complied

- **Condition vii)**

All other statutory clearances shall be obtained, as applicable, by project proponents from the respective competent authorities.

Compliance

All other statutory approvals required for the quarrying activity is obtained for the project. The details regarding the same along with the copy of the statutory approvals is provided at Annexure C1, C2 & C3.

Sl. No.	Annexure	Name of the statutory approvals
1	C1	License to possess: (c) for use, explosives of class1, 2, 3, 4, 5, 6 or 7.
2	C2	Integrated consent to operate issued under Air act, 1981 and Environment act 1986.
3	C3	License from Panchayat

- **Condition viii)**

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:

Would be complied

- **Condition ix)**

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:

Regarding the accordance of environmental clearance to the quarrying activity was advertised in two local newspapers and the copy of the same was submitted to SEIAA Kerala. The copy of the advertisement is provided at Annexure D1 & D2. Details of the news paper advertisements are given below.

Sl. No.	Annexure	Name of the News paper and edition	Dated
1	D1	The New Indian Express	24/12/2012
2	D2	Mathrubhumi	23/12/2012

- **Condition x)**

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 the Panchayat Office on 10.10.2013. The environmental clearance order is uploaded in the website of the company and it can be seen in the website www.msand. In. Receipt from the Panchayat Office stated that environmental clearance letter was received is enclosed as Annexure E.

- **Condition xi)**

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 can 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:

Fifth compliance report is being submitted to Department of Environment and Climate change, Govt. of India both in hard copy and soft copy (CD).

- **Condition xii)**

The proponent should 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 Department of

Environment and climate change on 23.12.2012 and the copy of the same is enclosed as Annexure No. F.

ANNEXURE 1

भारतीय गैर न्यायिक

एक सौ रुपये

Rs. 100

रु. 100

ONE HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

കേരളം केरल KERALA

Y 906885

AFFIDAVIT

I, Aby Mathew, Managing Partner & Authorized Signatory of M/s Panachayil Industries having its correspondence office at West Othera PO, Thiruvalla, Kerala – 689551, do hereby affirm and confirm as follows:

1. That, M/s Panachayil Industries propose to develop a Quarry project at Survey No. 21/6, 21/4, 10/2, 9/1-2, 9/1-3, 20/3, 23/7, 28/10-1, 23/5, Thottapuzhassery Village, Thottapuzhassery Panchayat, Thiruvalla Taluk, Pathanamthitta District, Kerala.

2. That, the eco-restoration including the mine closure plan will be done at our expenses.

DEPONENT

Verification:

Verified that my above statements are true to the best of my knowledge and belief and nothing material has been concealed therein

Place : Tiruvalla

Date : 17.10.2013

DEPONENT

Solemnly affirmed and signed before me by the deponent who is personally known to me in my office at Thiruvalla on this the 17th day of October 2013

A. P. Cokula Chandran, B.A., LL.B.
Advocate & Notary
Tiruvalla

NOTARY GOVT. OF KERALA

28 389
Tvla 2017

Aby Mathew, Managing Partner
Panachayil Industries
West Othera PO

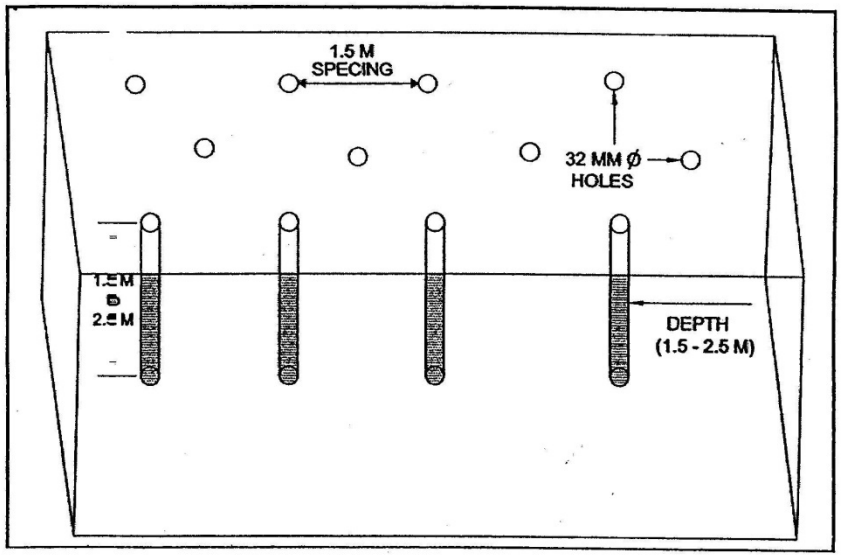
ANNEXURE 2

Photographs showing top soil storage area

Annexure No. 4

1. DRILLING

The excavation of mineral is proposed by excavators. The mineral is fractured and easily exploitable by rock breakers and excavators. The hard strata are proposed to excavate after drilling and blasting. The cross-sectional view of drilling operations is shown below:-



1.1. Salient features of drilling/ blasting

- About 30 to 50 holes per blast of 32 mm diameter and to a depth of 2 to 2.5m will be adopted.
- It is estimated about 2 to 3 T production per hole.
- Number of blasts per day depends upon the workable area and production to be achieved.
- The spacing of 1.0 to 1.5m between the holes will be adopted.
- About 250gm per hole of explosive will be used. However, 10 kg/ blast will be adopted at any point of time.
- Millisecond electric blasting will be adopted to limit the PPV and noise levels within the stipulated standards.

2. BLASTING

The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS.

In this area for fragmentation of granite the blasting will be conducted. Multiple blast holes of 1.0 to 1.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity.

It is estimated about 250 g of explosives per hole is required. About 30 – 50 holes per blast are proposed. Therefore, the requirement of explosives will be about 10 kg/ blast.

2.1. Blasting Safeguard

- Blasting in the open cast pit will be done only during day time at designated hours.
- Only competent blasters will be appointed to handle explosives.
- Explosives will be stored in approved and licensed magazine as per Explosive Act/ Rules.
- Explosives will be brought from magazine to blasting site in licensed Explosive Van under the care of blaster.
- Sufficient warning signals will be given before blasting the holes.
- Guards will be posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during blasting hour.
- Controlled blasting will be practiced to control vibrations and flying fragments.
- Optimum charge will be used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay will always be less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.

2.2. Types of Explosive Used

Only class 2 and class 6 explosive is proposed for use as given below:-

Booster (20%)	Slurry explosive
Explosive (Column charge) (80%)	Ammonium Nitrate Fuel oil (ANFO). The ANFO mixture can be readily produced at a site by mixing ammonium nitrate (94.5 %) with diesel oil (5.5 %).
Initiator	Electric detonators

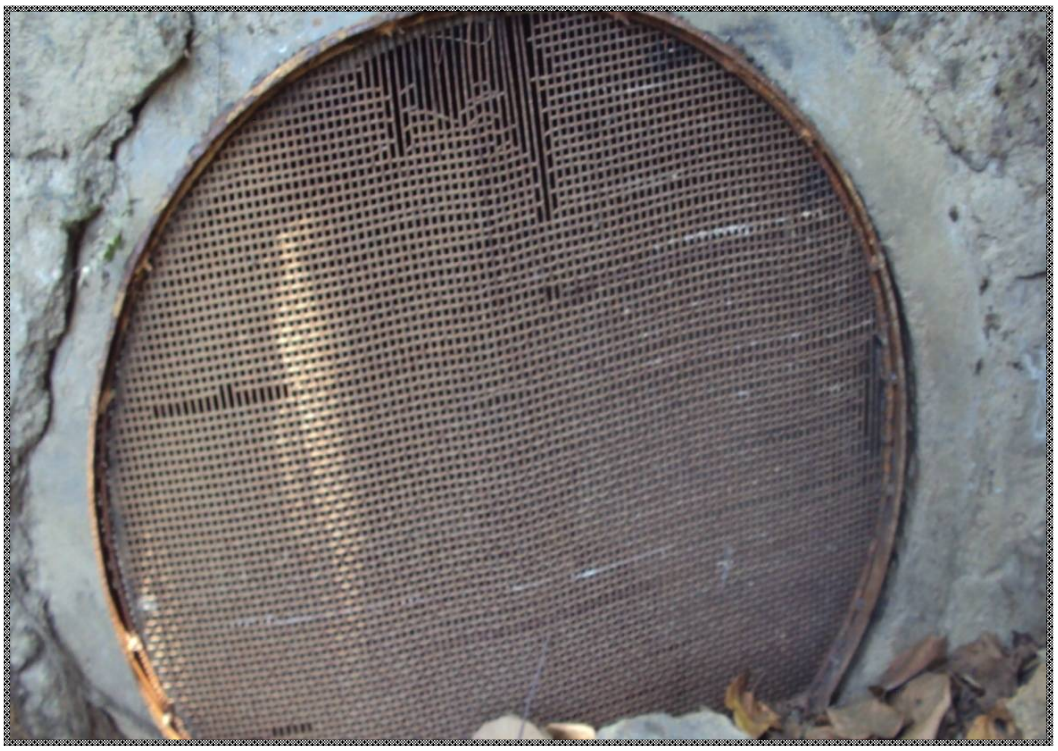
2. 3. Storage of Explosive

Considering low consumption, a 550 kg portable magazine is proposed for storing the explosive. The magazines are located within the complex and within the owners property (adjacent mine area).

ANNEXURE 5

Photographs showing garland drains to channelize storm water

ANNEXURE 6



Photographs showing the storm water storage pit and debris/silt traps to prevent entry of quarry waste to the main streams.

POLUCHEM LABORATORIES (P) LTD.
ANALYTICAL, CHEMICAL & ENVIRONMENTAL LABORATORY
PALLATH BUILDING, N. KALAMASSERY P.O., ERNAKULAM -683 104
NABL ACCREDITED PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com
Certificate No: T-1658

ANNEXURE 7

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD AND ACCREDITED BY NABL

TEST REPORT

Ref.No. PL/RT/PW/44/2014

Date of Issue: 30/08/2014

Name & address of customer : M/s. Panachayil Industries, Thottapuzhassery, Thiruvalla

Project Site : M/s Panachayil Industries, 21/6, 21/4,10/2,9/1-2,9/1-3,20/3,23/7, 28/10-1,23/5,Thottapuzhassery- Village, Thottapuzhassery - Panchayath, Thiruvalla-Taluk, Pathanamthitta - District,Kerala

Sample drawn by : Self
Sample description : Openwell water
Sample Code : H/44/2014
Date of sample collected : 23/08/2014
Date of analysis started : 23/08/2014
Date of completion of analysis : 28/08/2014

Parameters tested	Test method	Results	Desirable limit as per IS 10500
Color	IS 3025 (P) 04 – 1983	4 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983	Unobjectionable	Unobjectionable
Turbidity	IS 3025 (P) 10 – 1984	BDL	5 NTU
pH	IS 3025 (P) 11 – 1983	5.49	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 15 – 1984	38 mg/l	500 mg/l
Total Hardness as $CaCO_3$	IS 3025 (P) 21 – 1983	15.84 mg/l	300 mg/l
Total Alkalinity as $CaCO_3$	IS 3025 (P) 23 – 1986	BDL	200 mg/l
Residual Free Chlorine	IS 3025 (P) 26 – 1986	BDL	Min 0.2 mg/l
Chloride as Cl	IS 3025 (P) 32 – 1988	16.27 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991	2.38 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994	1.40 mg/l	30 mg/l
Iron as Fe	IS 3025 (P) 53 – 2003	0.66 mg/l	0.3 mg/l
Sulphate	IS 3025 (P) 31 – 1988	BDL	200 mg/l
Fluoride	IS 3025 (P) 60 – 2008	BDL	1 mg/l

Note: BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

Analysis of Ambient air, Stack emission, Noise, Light, Water, Waste water / Effluent, Soil
Tea, Spices, Oil, Fertilisers, Basic Chemicals etc; Pesticide Residue, Heavy Metals, Microbiology

POLUCHEM LABORATORIES (P) LTD.
ANALYTICAL, CHEMICAL & ENVIRONMENTAL LABORATORY
PALLATH BUILDING, N. KALAMASSERY P.O., ERNAKULAM -683 104
PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

Continuation of Test Certificate No: 44/2014

Parameters tested	Test method	Results	Desirable limit as per IS 10500
Selenium	APHA 3111B	BDL	0.01 mg/l
Arsenic	APHA 3111B	BDL	0.05 mg/l
Copper	APHA 3111B	BDL	0.05 mg/l
Manganese	APHA 3111B	BDL	0.1 mg/l
Cadmium	APHA 3111B	BDL	0.01 mg/l
Chromium	APHA 3111B	BDL	0.05 mg/l
Zinc	APHA 3111B	BDL	5 mg/l
Mercury	APHA 3111B	BDL	0.001 mg/l
Cyanide	APHA 4500 E	BDL	0.05 mg/l
Lead	APHA 3111 B	BDL	0.05 mg/l
Aluminum	APHA3500 D	BDL	0.03 mg/l
Boron	APHA 4500 B	BDL	1 mg/l

Note: BDL – Below Detection Level

MICROBIOLOGICAL TESTS

Parameters	Unit	Results	Desirable limit as per IS 10500
Coliforms	MPN/100ml	50	< 1
E coli	Cfu/ml	Absent	Absent

For Poluchem Laboratories (P) Ltd.

Authorised Signatory.

Quality Manager
Poluchem Laboratories (P) Ltd

POLUCHEM LABORATORIES (P) LTD.
ANALYTICAL, CHEMICAL & ENVIRONMENTAL LABORATORY
PALLATH BUILDING, N. KALAMASSERY P.O., ERNAKULAM -683 104
PHONE: 0484 - 3261174, 2544030, E-mail: poluchem@gmail.com

ANNEXURE 8

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD

TEST REPORT

Client Name & Address	Certificate No:	PL/RT/SD/4310/2014
M/s. Panachayil Industries Thottapuzhassery Thiruvalla Kerala	Date of issue:	30/08/2014
	Date of monitoring	22/08/2014 12.30 Hrs to 23/08/2014 12.30Hrs
	Monitoring Location	M/s. Panachayil Industries, 21/4,10/2,9/1-2,9/1-3,20/3,23/7,28/10-1,23/5,Thottapuzhassery Village Thottapuzhassery Panchayath, Thiruvalla Taluk,Pathanamthitta District Kerala
	Sample Description	Ambient Sound Level (Leq)

Monitoring Location	Time	Results
Near east side boundary	12.30 Hrs	53.8 dB (A)
	13.30 Hrs	52.7 dB (A)
	14.30 Hrs	51.3 dB (A)
	15.30 Hrs	50.6 dB (A)
	16.30 Hrs	54.2 dB (A)
	17.30 Hrs	52.6 dB (A)
	18.30 Hrs	50.1 dB (A)
	19.30 Hrs	48.7 dB (A)
	20.30 Hrs	45.9 dB (A)
	21.30 Hrs	42.3 dB (A)
	22.30 Hrs	41.4 dB (A)
	23.30 Hrs	40.5 dB (A)
	00.30 Hrs	39.1 dB (A)
	01.30 Hrs	38.3 dB (A)
	02.30 Hrs	37.8 dB (A)
	03.30 Hrs	38.9 dB (A)
	04.30 Hrs	40.3 dB (A)
	05.30 Hrs	41.7 dB (A)
	06.30 Hrs	46.9 dB (A)
	07.30 Hrs	49.5dB (A)
	08.30 Hrs	51.4 dB (A)
	09.30 Hrs	52.1 dB (A)
	10.30 Hrs	52.9 dB (A)
	11.30 Hrs	53.8 dB (A)
Leq(Day time)		51.0 dB (A)
Leq(Night time)		35.1 dB (A)

For Poluchem Laboratories (P) Ltd.

Authorized Signatory

POLUCHEM LABORATORIES (P) LTD.
ANALYTICAL, CHEMICAL & ENVIRONMENTAL LABORATORY
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Certificate No: T-1658

ANNEXURE 9

'A' GRADE LABORATORY APPROVED BY KERALA STATE POLLUTION CONTROL BOARD AND ACCREDITED BY NABL

TEST REPORT

Client Name & Address	Certificate No:	PL/AMB/RT/35/2014
M/s. Panachayil Industries Thottapuzhassery Thiruvalla Kerala	Date of issue:	30/08/2014
	Date of monitoring	22/08/2014 12.30 Hrs to 23/08/2014 12.30 Hrs
	Date of sample received:	23/08/2014
	Date of analysis	25/08/2014
	Monitoring Location	M/s. Panachayil Industries, 21/4,10/2,9/1-2,9/1-3,20/3,23/7,28/10-1,23/5,Thottapuzhassery Village, Thottapuzhassery Panchayath, Thiruvalla Taluk,Pathanamthitta District, Kerala
	Sample description	Ambient air – Near east side boundary
	Sample code given by client	Nil
	Sample identification No:	G/H/35/2014

SL NO	PARAMETERS	TEST METHOD	RESULTS	LIMITS
01	Particulate Matter (PM_{10})	I S 5182 Part 4 1999	60.6 $\mu g/M^3$	100 $\mu g/M^3$
02	Particulate Matter ($PM_{2.5}$)	CPCB	29.3 $\mu g/M^3$	60 $\mu g/M^3$
03	Sulphur dioxide	I S 5182 Part 2 2001	2.4 $\mu g/M^3$	80 $\mu g/M^3$
04	Nitrogen dioxide	IS 5182 Part 06 1975	3.5 $\mu g/M^3$	80 $\mu g/M^3$

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory	For and on behalf of POLUCHEM LABORATORIES (P) LTD. AUTHORIZED SIGNATORY

ANNEXURE 10

Photographs showing specific conditions of the environmental clearance prominently displayed in a metallic board

ANNEXURE – A

Photographs showing the rainwater harvesting system within the project area

ANNEXURE B

Photographs showing road side plantation and plant nursery

ANNEXURE B1

Photographs showing solar lights installed in the project area

ANNEXURE C1

നമ്പർ C2-315/2012 ..... ഗ്രാമ പഞ്ചായത്ത്

1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13)232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു കൊടുത്തത്

ലൈസൻസ്

ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	[illegible] P.O.
എന്താവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ന്	2313.5 HP മോട്ടോർ ഉപയോഗിച്ച് [illegible]
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	II/170(4) വാർഡ് II
ലൈസൻസിന്റെ കാലാവധി	01-04-2012 to 31-03-2017 (5 years)
ലൈസൻസ് ഫീസ്	11900 രൂപ —— പൈസ
റിമാർക്സ്	E - 115700 / ചലാൻ നമ്പർ. 19/67984 24/3/12 E - 4000 ചലാൻ. നമ്പർ 20/67984 24/3/12

..... ഗ്രാമ പഞ്ചായത്ത്

തീയതി

സെക്രട്ടറി

(ഗ്രാമം)

GLM -34 K / 2000

ലൈസൻസുടമയ്ക്ക് താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുബന്ധിക്കേണ്ടതാകുന്നു

പഞ്ചായത്ത് ആക്ടും അതിനു കീഴിലുള്ള ചട്ടങ്ങളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.

1. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വെടിപ്പായും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്തവിധത്തിലും പൊതുജനാപകടമുണ്ടാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.

2. തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ/സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റു ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസുടമസ്ഥൻ വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.

3. പഞ്ചായത്തിൽ നിന്നും അനുവാദം സിദ്ധിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാവുന്നതല്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.

4. ഏതൊരു പ്രവർത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.

5. ആ സ്ഥലത്തിന്റെയോ, പുരയിടത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വിഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന മൃഗങ്ങളുടെ തൂണുകളോ മറ്റു പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്തിക്കേണ്ടതാണ്.

6. ലൈസൻസുകാരൻ ഏതൊരു കെട്ടിടത്തിന്റെയും ചുമരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും തേപ്പടങ്ങ പുരയിടത്തിലുള്ള തറയും കിണറും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ ചുള്ളിക്കമ്പോ, അസഹ്യമോ, ഉപദ്രവകരമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ കയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായും കേടുപാട് തീർത്തും വർത്തിക്കേണ്ടതാണ്.

7. ലൈസൻസുകാരൻ മേൽപറഞ്ഞ പുരയിടത്തിലോ, അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്തും വർത്തിക്കേണ്ടതാണ്.

8. ഏതെങ്കിലും തരത്തിലുള്ള ബാധ രോഗമോ കുമിഞ്ഞ ജലമോ പ്രണമോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന യാതൊരു പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.

9. ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിന് ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസുകാരന്റെ തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു ബോർഡ് വച്ചിരിക്കേണ്ടതാണ്.

10. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചെയ്യുന്നതാണ്.

11. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളിൽ ഏതെങ്കിലും ലംഘിക്കുന്ന പക്ഷം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.

ഒപ്പുവെച്ചത്

SECRETARY
MATTAPPUZHASSERY GRAMA PANCHAYAT

നമ്പർ 02-12-13 തോട്ടപ്പുഴശ്ശേരി ഗ്രാമ പഞ്ചായത്ത്

1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13)232, 233, 234, 254 എന്നീ വകുപ്പുകൾ പ്രകാരവും അതോടുള്ള ചട്ടങ്ങളും അനുസരിച്ചു കൊടുത്ത

ലൈസൻസ്

ലൈസൻസുടമസ്ഥന്റെ പേരും മേൽവിലാസവും	[illegible] P.O.
ആവശ്യത്തിന് ലൈസൻസ് അനുവദിച്ചു എന്ത്	124 Hp ആൾട്ടർ ഡീസൽ ഉപയോഗിച്ച് [illegible] (62 Hp x 2. Nos.)
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	Survey Number - As per Lease Agreement
ലൈസൻസിന്റെ കാലാവധി	01/04/2013 to 31/3/2014
ലൈസൻസ് ഫീസ്	2000/- രൂപ — പൈസ — ([illegible])
റിമാർക്സ്	[illegible]

തോട്ടപ്പുഴശ്ശേരി ഗ്രാമപഞ്ചായത്ത്

തീയതി 19/3/[illegible]

Office of the Thottappuzhassery Grama Panchayat * Maraman P.O. *

സെക്രട്ടറി (മറുവശം)

SECRETARY
THOTTAPPUZHASSERY GRAMA PANCHAYAT

[illegible] 4 N / 8000

ലൈസൻസുകാരൻ താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

[illegible] താൻ ആകട്ടെ അതു തുടർന്നുള്ള വർഷങ്ങളിൽ [illegible] ചെയ്യേണ്ടതാകുന്നു.

1. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും വൃത്തിഹീനമല്ലാതെയുമുള്ള ഉപകരണങ്ങൾ ഉപയോഗിക്കുന്നതിലും പൊതുജനാരോഗ്യസംരക്ഷണ വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.

3. തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ/സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസുഡേസ്ഥന് വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.

4. പഞ്ചായത്തിൽ നിന്നോ അനുവാദം സിദ്ധിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാവുന്നതല്ലാതെയും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.

5. ഏതൊരു പ്രവർത്തിദിവസത്തിൻെറയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.

6. ആ സ്ഥലത്തിൻകീഴോ പുരയിടത്തിൻെറയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൃഗങ്ങളുടെ തൂണുകളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യേണ്ടതാണ്.

7. ലൈസൻസുകാരൻ ഏതൊരു കെട്ടിടത്തിൻെറയും പുരയുകളുടെ അകവശത്തിൻെറ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പുരയിടത്തിലുള്ള മറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ ചപ്പുചവറോ, അഴുക്കുകളോ, ഉപദ്രവകരമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ഒഴിക്കുന്നത് നടത്തുന്നതിനും എപ്പോഴും നന്നായി കേടുപാട് തീർത്തും വയ്പിക്കേണ്ടതാണ്.

8. ലൈസൻസുകാരൻ മേൽപറഞ്ഞ പുരയിടത്തിലോ, അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായും കേടുപാടുതീർത്തും വയ്പിക്കേണ്ടതാണ്.

9. ഏതെങ്കിലും തരത്തിലുള്ള വസൂരി രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന യാതൊരു പദാർത്ഥത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.

10. ഏത് സ്ഥലത്തിൻെറ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധത്തിലുള്ള ഒരു മാതൃകയിൽ ലൈസൻസുകാരൻ അതിൻെറ പേരും, ലൈസൻസിൻെറ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.

11. അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചെയ്യുന്നതാണ്.

12. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളിൽ ഏതെങ്കിലും ലംഘിക്കുന്ന പക്ഷം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.

[illegible]

13. [illegible]

സെക്രട്ടറി

SECRETARY
THRIPPUZHASSERY GRAMA PANCHAYAT

ANNEXURE C2

FILE NO. - PCB HO/PTA/ICO/399/2012

KERALA

KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO OPERATE

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974
The Air (Prevention & Control of Pollution) Act, 1981
&
The Environment (Protection) Act, 1986

TO

Consent No. PCB/HO/PTA/ICE/02/2012

SHRI. ABY MATHEW
PALLIAMBIL HOUSE
WEST OTHERA P. O.
THIRUVALLA – 689551

(For Panachayil Industries, Kolabhagom P.O., Thadiyoor, Pathanamthitta)

Date of Issue: 15.10.2012 Valid upto: 30.06.2015

Copy to:

1. The Chief Environmental Engineer, Regional Office, Thiruvananthapuram
2. The Environmental Engineer, District Office, Pathanamthitta.
3. The Secretary, Thottappuzhassery Grama Panchayat.
4. Stock File

2. GENERAL CONDITIONS

2.1 This consent is renewed subject to the power of the Board to review and make variation in or revoke the conditions as the Board deems fit as per the relevant Acts / Rules

2.2 This consent, unless withdrawn earlier and subject to condition no. 2.1, shall be valid upto 30.06.2016. For renewal of the integrated consent, application in the prescribed form shall be submitted to the Board in the third month before expiry of the consent.

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

3. CONDITIONS AS PER Water (Prevention & Control of Pollution) Act 1974

3.1. There shall not be any discharge of trade effluent from the unit.

3.2. Water meter shall be installed to measure consumption of water.

3.3. Sewage effluent shall be treated in septic tanks and treated effluent shall be dispensed through soak pits with concreted bottom, honeycomb wall and 60 cm thick 2 mm sand envelope around that.

3.4. Arrangements for rainwater harvesting and for utilisation of harvested rain water shall be maintained.

4. CONDITIONS AS PER Air (Prevention & Control of Pollution) Act 1981

4.1 The DG sets shall be acoustically protected. The minimum height of chimneys for venting emissions from DG sets shall be 0.2 √KVA m, where KVA is the capacity of DG set. If more than one DG set is placed in a single cabin, total capacity of DG sets in the location shall be considered for finding out the minimum required height of chimney.

4.2 In order to prevent and control air pollution the following control measures shall be in position while operating the crusher industry.

a. Crushers, classifiers, screens and other noise and / or dust producing units housed in buildings with solid wall (not hollow bricks) of minimum 23 cm thickness shall be maintained.

b. Dust suppression system with water sprays and sprinklers provided should be operated satisfactorily.

c. Dust extraction and collection system provided at crushers, transfer points, screens etc shall be operated.

d. Water storage facility of at least 2 days capacity provided shall be maintained.

e Facility provided for regular cleaning and wetting of ground shall be maintained.

f. Suitable species of trees and curtain plants of suitable species shall be maintained and improved with planting trees to develop a green belt within and along the boundary of the premises.

g The raw materials & products shall be transported with proper cover or with adequate measures to prevent spreading of dust during transportation.

h All operations likely to produce dust, odour or noise shall be carried out within closed premises.

ANNEXURE C3

FILE NO. - PCB/PTA/ICO/QR-24/07 Date of issue: 06/12/2012

KERALA

KERALA STATE
POLLUTION CONTROL BOARD
DISTRICT OFFICE
PATHANAMTHITTA

CONSENT TO OPERATE (Renewal)

ISSUED UNDER

Water (Prevention & Control of Pollution) Act, 1974

Air (Prevention & Control of Pollution) Act, 1981

&

Environment (Protection) Act, 1986

To

M/s. Panachayil Industries (Quarry),
Kolabhagam.P.O,
Thadiyoor,
Pathanamthitta. Dist.

CONSENT NC: QCO/PTA/14/R2/2012 **VALID UP TO: 30/06/2015**

1. GENERAL

1	VALIDITY:- Date of Commissioning:-	30/06/2015 1995
2	Name and address of establishment	M/s. Panachayil Industries (Quarry), Kolabhagom.P.O, Thadiyoor, Pathanamthitta. Dist.
3	Communication	Telephone : 0469 - 2743800 Fax : e- mail :mail@poabs.com
4	Occupier details	Sri. Aby Mathew, Managing Partner, Panachayil House, West Othera.P.O., Thiruvalla
5	Survey Number	3/5, 11/2,11/4, 12/2, 12/3, 12/6, 12/5,3/6, 3/8, 11/3, 15/7pt, 15/9pt, 15/15, 16/5, 21/5,21/6pt, 10/3-1, 10/2-1, 10/4, 16/2, 16/4, 16/4-1, 16/3, 17/8, 18/1.
6	Village	Thottappuzhassery
7	Taluk	Thiruvalla
8	District	Pathanamthitta
9	Panchayat: Ward No:	Thottappuzhassery 1
10	Category	RED
11	Scale	Medium
12	Fee Slab / Fee remitted	Rs. 12000/year Rs.36000/-
13	Capital Investment	56.92 Lakhs -
14	Total Water consumption:- Water meter installed for:-	NIL -
15	Previous Consent	QCO/PTA/14/R1/2009 dated. 17.04.2003 valid up to 30/06/2012
16	Machinery details	1.Compressor : 62HP each 2no 2. Jack Hammer : 5no 3.Tractor Compressor : 2no 4. Braker : 125 HP – 1no 5.Excavator : 135HP – 3nos 6.D.G.Set. 125kVA -1no
	PRODUCTS	Quarry Rubble : 3640MT/day

2.17. Air compressors used for quarrying shall be acoustically enclosed to control the noise.

2.18. Noise creating activities, such as drilling, blasting, breaking loading etc shall not be done during night time (6pm – 6am)

2.19. Blasting shall be done at specified time with prior signals.

3. ADDITIONAL CONDITIONS

3.1. No other machineries shall be operated without prior Consent of the Board.

3.2. Quarrying operations shall be started only after obtaining the D & O License under the Kerala Panchayat Raj Act from the concerned Local Self Government Institution and submitting a copy of the same to the concerned District Office of the Board.

3.3. E-waste shall be disposed of in an environmentally sound manner.

The following details shall be submitted to the Board on or before 31st December every year'.

Sl No	Particulars of e-waste	Quantity of e-waste disposed in previous year	Quantity of e-waste proposed to be disposed in current year	Mode of disposal

3.4. Clearance certificate from the Environment Department shall be obtained.

3.5. Adequate fire fighting equipment in accordance with the fire safety regulations shall be installed in the unit.

3.6. The applicant shall put up a sign board of size 6x4ft near the main entrance of the unit. One board shall display consent no. with validity & conditions 1.2, 1.16 .

OFFICE SEAL

SIGNATURE & SEAL OF
ISSUING AUTHORITY

K.RAJENDRA BABU

Copy to:-

(1) The Chief Envtl.Engineer, R.O, TVM.

(2) Stock file.

2. GENERAL CONDITIONS

2.1 This consent is granted subject to the power of the Board to review and made variation in or revoke the conditions as the Board deems fit.

2.2 For renewal of consent application in the prescribed form shall be submitted to the Board before 31/03/2015 along with this consent.

Late applications will be accepted only with a fine/late fee as per norms.

2.3 No change, deviation or alteration that may affect the quality or location of discharge of effluent is to be made without prior written permission of the Board. Any change in particulars furnished in the application and/or in the identity of the occupier/authorised agent is to be intimated to the Board forthwith.

2.4. The consent issued is subject to conditions specified in the clearances issued by the Mining & Geology Department and Explosive Department as per the provisions of the relevant statutes.

2.5. Suitable species of trees and curtain plants shall be planted and maintained within and along the periphery of the area, forming a green belt to improve the environment.

2.6. 2.6. There shall be minimum distance of 100m from boundary of quarry operating area to residential buildings, place of worship, Public buildings, public road having vehicular traffic, river or lake, railway line, bridges etc.

2.7. Quarrying shall be only within the area confirmed within the fencing with G.I.wire and the fencing shall be maintained always.

2.8. Boundary shall be fenced before operation of quarrying activities.

2.9. Blasting with electric Detonators shall be limited to a maximum of 5nos at a time.

2.10. Only bench cutting method shall be adopted for quarrying.

2.11. Blasting and quarrying shall be done without causing any nuisance or damage to occupants of adjoining or neighbouring land or building or posing damage to health, life or property.

2.12. Sound level at 1m outside the boundary of the quarry shall be 55 dB (A) Leq, max.

2.13. Suspended particulate matter (dust) level at boundary shall be 200μg/m³ max and respirable particulate matter shall be 100μg/m³, max.

2.14. After completion of excavation at any site, the abandoned quarry shall be utilized for rain water harvesting with protective barriers/ any other suitable approved purpose or may be reclaimed as per specification.

2.15. Proper fencing/barriers shall be provided and maintained all around the abandoned deep quarry pits to avoid accidents.

2.16. Mining below normal water table by continuous pumping shall be avoided in summer period (March, April & May) to prevent drinking water shortage in that area.

ANNEXURE C4

Amending Letter

GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION(PESO)
(Formerly Department of Explosives)
No.140, Rukmini Laxmipati Road,
Marshalls Road, Egmore, Chennai 600008
Tele: 28514848 Fax: 28514848
Email: jtecechennai@explosives.gov.in

No.: E/SC/KL/22/150(E11315)

Dated:04/10/2012

To
Sri/LBINU.K.MATHEW & PANACHAYIL INDUSTRIES,
WEST OTHERA Post, THIRUVALLA, Town/Village - WEST OTHERA
Distrtct-PATHANAMTHITTA, State-Kerala, Pincode - 689551

Subject: Possession For Use of of Explosives from magazine situated at Survey No(s).:163/1A3, Thottapuzhacherry,Thiruvalla taluk, Dist. PATHANAMTHITTA, Kerala -Licence No.: E/SC/KL/22/150(E11315) granted in Form LE-3 of Explosives Rules, 2008 -
Amendment of Quantity of Explosives/Monthly Purchase Limit .

Sir(s),

Please refer to your letter No. x dated 17/09/2012 on the subject cited above.

The Licence No.: E/SC/KL/22/150(E11315) is duly amended in respect of :

Quantity of Explosives/Monthly Purchase Limit

and forwarded herewith.

The licence capacity at any one time shall not exceed the kinds and quantities mentioned below :

No	Explosive(s)	Class	Div	Sub Div	Capacity	Unit
1	Nitrate Mixture	2	0	0	250	Kg.
2	Safety Fuse	6	1	0	5000	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	5000	Nos.

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

This Licence shall remain valid till 31st day of March 2015.

An amount of Rs. 500/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

For further renewal of licence, please follow the procedure under Rule 112 of Explosives Rules, 2008.
Receipt of this letter may please be acknowledged.

Enclosures :

Yours faithfully,

(C Shanmugam)
Controller of Explosives
For Joint Chief Controller of Explosives
South Circle, Chennai

Copy Forwarded to:

1. The Dy. Chief Controller of Explosives, Kochi.
2. District Magistrate, PATHANAMTHITTA, Kerala with reference to his Noc No: K.DIS.33642/92 Dated: 23/10/1992.
3. Superintendent of Police, PATHANAMTHITTA, Kerala

For Joint Chief Controller of Explosives
South Circle, Chennai

[For more information regarding status, fees and other details, please visit our web site http://peso.gov.in]

http://10.0.1.11/IntExp/AmdCoveringLetterNew.asp 10/4/2012

Form DL-2
(See rule 113 of the Explosives Rules, 2008)
(Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/159(E11315) in Form LE-3 granted to Shri.BINU.K.MATHEW.M/s.PANACHAYIL INDUSTRIES, WEST OTHERA Post, TIRUVALLA, Kerala

	Type of Structure(s)	Safety distances meters	
	Inside Safety Distances(ISD)	M	UM
1	Room or Workshop used in Connection with the Magazine	16	24
2	Any other Explosives Magazine or store House or Factory of the Applicant		
3	Magazine Office		
	Middle Safety Distances(MSD)		
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road	45	
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmills or Solar panel for Power Generation		
	Outside Safety Distances(OSD)		
13	Dwelling House		
14	Govt. and Public Building		
15	Temple, Mosque, Church or Gurudwara or other Places of Worships		
16	Shops, Market place, Public recreation and Sports Ground, College, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances	68	
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
	Overhead Electric lines		
27	Electric Power over head Transmission Lines above 440V	68	
28	Electric Power over head Transmission Lines Below 440V	15	

The Date : 17/12/ 992

For Joint Chief Controller of Explosives
South Circle, Chennai

ANNEXURE D1

NOTICE

This is to inform to the General Public that the proposed quarry project at Survey Nos. 21/6, 21/4, 19/2, 31/1-2, 31/3-2, 20/3, 23/7, 28/10-1, 23/5, Thottapuchassery Panchayat, Thiruvalla Taluk, Pathanamthitta District, Kerala is being developed by M/s Panachayil Industries is applied for ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Diary No. 34/SEIAA/KL/6089/2012 dt. 14-12-2012 and the copy of the Environmental Clearance is available with the State Department of Environment and Climate Change, Government of Kerala and may also be seen on the website of the Department at www.seiaakerala.org.

SHOP OPEN TODAY

3.12.2012

TRAVANCORE

THE NEW INDIAN EXPRESS
KOCHI MONDAY 24 DECEMBER

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NOTICE

This is to inform to the General Public that the proposed quarry project at Survey Nos. 21/6, 21/4, 10/2, 9/1-2, 9/1-3, 20/3, 23/7, 28/10-1, 23/5, Thottapuzhassery Panchayath, Thiruvalla Taluk, Pathanamthitta District, Kerala being developed by M/s Panachayil Industries is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Kerala vide Order No. 34/SEIAA/KL/6089/2012 dt. 14-12-2012 and the copy of the Environmental Clearance is available with the office of Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org

TENDER NOTICE

Notice Inviting Tender for supply and installation of computers & networking accessories and Structured LAN cabling

Sealed tenders are invited for supply, installation and commissioning of Desktops & Networking accessories and Structured cabling from reputed firms or their Kerala based authorized Representatives / Distributors. Parties competent as per above can obtain separate tender documents for 1. Computers [illegible] 2. Network [illegible] cabling with details and particulars of the work and terms and conditions of tender from this office during the office working hours, other than Sunday or public holiday on payment of Rs. 5000/- (Rupees Five Thousand only) plus Service Tax in DD favg the General Manager, The Idukki District Cooperative Bank, Idukki on 01-01-2013 (2 PM). The last date of submission of completed tender is 01-01-2013 (4 PM). The tenders would be opened at 10.30 AM on 02-01-2013 at the Head Office of the bank and bidders of their duly authorized representatives may be present.

General Manager,
The Idukki District Cooperative Bank Ltd., Head Office,
Idukki, Kerala State – Pin: 685 603

ANNEXURE E

തോട്ടപ്പുഴശ്ശേരി ഗ്രാമപഞ്ചായത്ത് ആഫീസ്

പി.പി.ശശിധരൻ
സെക്രട്ടറി / പ്രസിഡന്റ്
തുടർത്താവ്

മാമ്പാമണ് പി.ഒ.
പത്തനംതിട്ട ജില്ല - 689 549
ഫോൺ : 0468 - 2214387
E-mail :tpsry1@gmail.com

തീയതി 10/10/2013

വിഷയം :-

സൂചന :-

Receipt

Received Copy of order No. 34/SEIAA/KL/1059/2012 Dt. 14.11.2012 of Member Secretary SEIAA Kerala being environmental clearance under EIA Notification 2006 for quarry project at Thottappuzhassery Grama Panchayat by M/s Ramachandra Industries.

Office of the Thottappuzhassery Grama Panchayat
Mr. Smt. P.B.

10/10/13

SECRETARY
THOTTAPPUZHASSERY GRAMA PANCHAYAT