COMPLIANCE REPORT

TO

THE CONDITIONS

OF

ENVIRONMENTAL CLEARANCE ORDER

NO: 823/SEIAA/EC1/2606/2015

DT. 09-08-2016

 \mathbf{BY}

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY (SEIAA)

FOR

PROPOSED QUARRY PROJECT

ΑT

SURVEY NO. 1244/1pt KILLANUR VILLAGE, THRISSUR TALUK, THRISSUR
DISTRICT, KERALA

 \mathbf{BY}

M/S RUDRA GRANITES

(February 2018- July, 2018)

INTRODUCTION

M/S Rudra Granites is a stone quarry located at Survey No., 1244/1pt Killanur Village, Thrissur Taluk, Thrissur District, Kerala. The quarry project was accorded with the Environmental Clearance by state Environmental Impact Assessment Authority on 09-08-2016. Consequently based on this EC, mining activity started during February 2017 in this area. 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 February 2018- July, 2018 (Fourth Report) is being submitted.

PART A - SPECIFIC CONDITIONS

Condition 1

Protection wall (Protective fencing) shall be provided at vulnerable points of the quarry to avoid accidents.

√ Compliance

We have erected barbed metal wire fencing around the lease area with a height of 5ft to avoid accidents. Photograph showing the same is enclosed as Annexure 1.

≻ Condition 2

Overburden is to be stored at the designated place.

√ Compliance

The excavated overburden and top soil has been storing separately in a prefixed location since the starting of the project. Photograph showing the same is enclosed as Annexure 2. The quantity of topsoil and overburden estimated to be 29095MT and 138000MT respectively for the present project.

Condition 3

The approach road to the quarry from the main road is not maintained at all. This road must be maintained at good condition by the proponent.

√ Compliance

The access road to the quarry has paved with granite stones. It is well maintained by strengthening with metal pieces and trees are planted along both sides to avoid land sliding. To decrease dust emission during transportation, roads are watering in regular interval using sprinklers fitted in tanker lorry. It is proposed to tar the access road as further maintenance. The photographs showing the same is given in Annexure 3.

Condition 4

Dust suppression mechanism must be in place.

√ Compliance

To minimize the dust emission during material transportation, the haul roads are watering at regular intervals. To confirm suitable supply of water during the summer season, water harvesting pond has constructed near the project area. Dust emission during drilling is reducing by wet sack usage. The photograph showing rainwater harvesting system in the project site is shown in Annexure No. 4.

Condition 5

A more realistic CSR shall be prepared and submitted before SEIAA

√ Compliance

More realistic CSR has prepared and submitted to SEIAA. CSR activities are carrying out as per the application submitted to SEIAA. As part of Corporate Social Responsibility (CSR) the company has given study materials to local school students on June 2017. The registers regarding CSR were maintained in the company office as record. We spent around 6 lakh rupees for CSR activities during this financial year. Some documents regarding the CSR activities are attached as Annexure 4A

PART B - GENERAL CONDITIONS

Condition 1

Rainwater harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR unless otherwise specified.

√ Compliance

Rainwater harvesting system is providing in the project area. It comprises of one harvesting tanks constructed with stone masonry wall having the capacity of 300000 liter. Photograph of the rainwater harvesting system as enclosed as Annexure 4.

Condition 2

Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.

√ Compliance

An Environmental Monitoring Cell has formed with Mr. Dineshmon NT (Owner) as head of the monitoring cell and made functional. Meeting of the monitoring cell has been arranging periodically and discus the status of the compliance of the specific and general conditions stated in the Environmental clearance order. The details of the monitoring cell members are given below.

Post	Name
Head of the monitoring cell	Dineshmon NT
Head in charge (Environment)	Sathyanarayana Rai
Senior Environmental Officer	Krishna Naik R
Environmental Officer	Ratheesh N
Name of the environmental officers in charge at Site	Jacob AM
Address of Environmental laboratory	M/s Poluchem Laboratory Pvt. Ltd.
	Head of the monitoring cell Head in charge (Environment) Senior Environmental Officer Environmental Officer Name of the environmental officers in charge at Site Address of Environmental

Condition 3

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

√ Compliance

The project area almost covered with thick vegetation and the vacant spaces including the sides of approach road and other places near to the project area has planted with tree saplings. The photographs showing the same are attached as Annexure No.5.

Condition 4

Maximum possible solar energy generation and utilization shall done at the own cost of the project proponent.

√ Compliance

In connection with the present project, we have incorporated devices for solar energy generation and utilization. Solar lights has erected along the near the office area. Photographs showing solar energy devices are given in Annexure 5A.

Condition 5

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

√ Compliance

The haul roads are watering at regular intervals to reduce dust emission during transportation. To ensure adequate supply of water during the summer season, water harvesting pond has constructed in the project area. Dust emission during drilling is reduced by wet sack usage.

> Condition 6

Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.

√ Compliance

Eco-restoration including the mine closure plan will perform at our own cost. Subsequent to the closure of the mine, it is proposes to develop a green belt in the mined out area after reclaimed with stacked dumping and overburden. As

part of the same, we have stored the top soil and overburden in a prefixed area. Ten percent of the excavated pit area will maintain as water storage area.

➤ Condition 7

At least 10 percent out of the total excavated pit area should be retained as water storage area and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.

√ Compliance

Subsequent to the closure of the mine, ten percent of the excavated pit area will be retain as water storage area. It is proposes to develop a green belt in the remaining area with indigenous plant species after reclaimed with stacked dumping and overburden. Grass and Shrub species with strong root system will plant in the areas prone to erosion especially at the foot of the hill. As part of compliance we have started planting teak tree saplings. The photographs showing the same shown as Annexure No.5

Condition 8

Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.

√ Compliance

As part of Corporate Social Responsibility (CSR) the company has given study materials to local school students on June 2017. The registers regarding CSR were maintained in the company office as record. We spent around 6 lakh rupees for CSR activities during this financial year. Some documents regarding the CSR activities are attached as Annexure 4A

Condition 9

The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.

√ Compliance

To prevent falling of animals/human/belongings/dumping of garbage's etc., barbed metal wire fencing has installed around the mining area with a height of 5 ft. The photograph showing the same is attached as Annexure No.1

> Condition 10

Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulation of Explosive Department.

√ Compliance

Warning alarm has installed in the project area and maintaining properly. The blasting time has fixed and is between 4.0pm and 5.0pm. A danger board indicating blasting time has installed in the project site.

> Condition 11

Control measures on noise and vibration prescribed by KSPCB should be implemented.

√ Compliance

Noise pollution

Mitigation measures Implemented

The major noise generating source from the mining activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are undertaken to bring down the noise levels:-

- Proper maintenance of machinery, equipment and improvement of design of machines.
- > Personal protective devices i.e., earmuffs, ear plugs etc. are provided to workers working in high noise areas.
- > Maintain a wide green belt of dense foliage between mine areas and residential colonies.
- The mining area is working only during day times.
- Noise quality is checking periodically. The sound levels are monitored through an NABL accredited laboratory during the quarry in operation and the monitored results are well within the permissible limits.

Blast vibrations and control measures

- Controlled blasting technique is adopted in this project in order to reduce blast vibrations.
- The maximum charge per delay is not more than 10kg to limit the PPV values to 10mm/sec.
- Optimum delay sequence and stem to column ratio is maintaining to minimize the ground vibration intensity.
- > Condition 12

Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.

√ Compliance

Quarrying activities is carrying out only in the day time.

> Condition 13

Blasting should be in a controlled manner as specified by the regulations of Explosive department or any other concerned agency.

√ Compliance

Blasting

- The controlled blasting is proposed by adopting all the safety measures as per "MMR 1961" and with the permission of DGMS.
- Blasting is carried out for the fragmentation of the granite within the project area. Multiple blast holes of 1.0 to 1.5 m depth will be drilled with the help of 32mm drill rod, Jack Hammer and air compressor of 100 cm capacity.
- ❖ It is estimated about 250g of explosives per hole is required. About 30-50 holes per blast are proposed. Therefore the requirement of explosive will be about 10kg/ blast.

Blasting safeguard

- Blasting in the open cast is done only during day time at designated hours.
- Only competent blasters are appointed to handle explosives.

- Explosives are stored in approved and licensed magazine as per explosive Act/ Rules.
- Explosives are brought from magazine to blasting site in licensed explosive van under the care of blaster.
- Sufficient warning signals are given before blasting the holes.
- Guards are posted on all roads and paths at least 250 m distance to stop entrance to the danger zone during the blasting hour.
- Controlled blasting is practiced to control vibrations and flying fragments.
- Optimum charge is used, while blasting near office complex/ infrastructure site.
- Maximum charge per delay is always being less than 10kg to limit the PPV levels within the DGMS standards of 15 mm/sec.
- > Condition 14

A licensed person should supervise/ control the blasting operations.

√ Compliance

Licensed person is supervising/controlling the blasting operations. Copy of license of the licensee person is enclosed as Annexure 6.

> Condition 15

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

√ Compliance

Approach road to the mine has well maintained by paving granite stones and we decided to tar the road shortly. Roads have been well maintaining to contain dust emissions that may arise during transportation of materials. The photographs showing the same is given in Annexure 3.

> Condition 16

Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/ specific condition.

√ Compliance

The excavated top soil has been storing separately in a prefixed location. The quantity of topsoil and overburden estimated to be 29095MT and 138000MT respectively. Photograph showing the same is enclosed as Annexure 2.

Condition 17

Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific condition.

√ Compliance

Current project has started working during March 2017 and the operation is carrying out in the form of benches. Now we are managing the height of the bench around 5 meters. The photograph showing our current working is shown as Annexure No.7.

Condition 18

Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.

√ Compliance

Various safety measures have set down to prevent fly rocks cross the lease area. Safety measures include no blasting during unfavorable weather conditions, maintain optimum delay sequence and stem to column ratio etc. Mats to prevent fly rock during blasting will arranged shortly.

> Condition 19

Maximum depth of mining from general ground level at site shall not exceed 10 m.

√ Compliance

Mining depth will not exceed beyond 10m from general ground level. The exploitation of mineral is from 90-15m MSL in conceptual phases.

Condition 20

No mining operation should be carried out at places having a slope greater than 45° .

✓ Compliance

Mining activities will not carry out at regions having a slope greater than 45°.

Condition 21

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/KSPCB.

√ Compliance

The noise level is keeping within the prescribed standards given by CPCB/KSPCB. Project area has covered by thick green belt and this will reduce sound amplifications produced during mining activities.

Condition 22

The workers on the site should be provided with the required protective equipment such as ear muffs, helmets, etc.

√ Compliance

All workers have provided with personal protective devices such as earmuffs, ear plugs, helmet etc. at the site.

Condition 23

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

√ Compliance

From the whole project area, storm water is channelizing in to an excavated pit and stored the storm water in it. During this storage all the debris/slit in the storm water are sedimented in to the bottom of the pit. Overflow from the storm water collected pit is opened in to Garland drains which entering to the main stream.

Condition 24

The transportation of minerals should be done in covered trucks to contain dust emissions.

√ Compliance

To reduce dust emissions during transportation, trucks are covered with tarpaulin sheets after loading. Photographs showing the same is attached as Annexure No.7A

➤ Condition 25

The proponent should plant at least 5 times of the loss that has been occurred while clearing the land for the project.

√ Compliance

Planting tree saplings ongoing in the vacant areas inside as well as near to the project area. We will plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.

➤ Condition 26

Disposal of spend oil from diesel engines should be as specified under relevant rules/regulations.

√ Compliance

Disposal of spent oil from diesel engines is carrying out under relevant rules/regulations.

Condition 27

Explosive should be stored in magazines in isolated place specified and approved by the Explosive Department.

√ Compliance

Explosives are storing in magazines built in an isolated place specified and approved by the Explosives Department. A photograph showing the magazine is enclosed as Annexure 8.

➤ Condition 28

A minimum distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.

√ Compliance

Distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures are providing.

Condition 29

100 m buffer distance should be maintained from forest boundaries.

√ Compliance

Not applicable, no forest boundary within 200m distance.

> Condition 30

Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.

√ Compliance

Consent from Kerala State Pollution Control Board under Water and Air Act(s) has obtained before started the mining activity. Consent Order from Kerala State Pollution Control Board is attached as Annexure 9.

➤ Condition 31

All other statutory clearances should be obtained as applicable by project proponents from the respective competent authorities including that blasting and storage of explosives.

√ Compliance

All 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 are enclosed as Annexure 9 and 10. Details of statutory approvals are given below.

S1. No.	Annexure	Statutory approvals
1	10	License to possess: (c) for use, explosives of class1, 2, 3, 4, 5, 6 or 7.
2	11	License from Panchayat

> Condition 32

In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts are assessed, based on which only the E.C. is issued, the project would require a fresh appraisal by this Authority for which the proponent shall apply and get the approval of this authority.

✓ Compliance

Would be complied

> Condition 33

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

√ Compliance

Would be complied

> Condition 34

The stipulation by the statutory authorities under different acts and notifications should be complied with including the 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 35

The project Proponent should advertise in at least two local newspapers widely circulated in the region one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environmental Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaa.kerala.org. The advertisement should be made within 10 days from the date of receipt of the clearance letter and the copy of the same signed in all pages should be forwarded to the office of the Authority as confirmation.

√ Compliance

The accordance of environmental clearance to the quarrying project has advertised in two local newspapers and the copy of the same was submitted to SEIAA Kerala. The copies of the advertisements are provided at Annexure P1 & P2. Details of the newspaper advertisements are given below.

S1.	Annexure	Name of the Newspaper and edition	Dated
No.			
1	12	Mangalam	30/0-8/2016
2	13	Kerala Kaumadi	30/0-8/2016

Condition 36

A copy of the clearance letter shall be send by the proponent to concerned Grama panchayat/ District panchayat/ Muncipality/ 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 Environmental Clearance shall also be put on the website of the company by the proponent.

√ Compliance

A copy of the environmental clearance order has submitted to Panchayat office. There is no suggestion/representation received so far from anybody. The environmental clearance order is uploaded in the website of the company and it can be seen in the website www.rudragranite.com

Condition 37

The proponent shall submit half yearly reports on the status of compliance of the stipulated E.C. 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 E.C. conditions, including result of monitored data on website and shall and update the same periodically. It shall simultaneously be send to the respective Regional office, of MOEF, Govt. of India and also to the State Environmental Impact Assessment Authority (SEIAA) office.

√ Compliance

Fourth Compliance Report is being submitted to Department of Environment and Climate change, Govt. of Kerala and Regional Office of MoEF, Govt. of India both in hard copy as well as soft copy (CD).

> Condition 38

The details of environmental clearance should be prominently displayed in a metallic board of 3ft x 3ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry visible to the public.

√ Compliance

Details 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 photographs showing the metallic board is given in Annexure 14.

Condition 39

The proponent should provide notarized affidavit (indicating the number and date of environmental clearance proceedings) that all the conditions stipulated in the E.C. shall be scrupulously followed.

√ Compliance

An affidavit has submitted to Department of Environment and climate change stating that all the conditions stipulated in the Environmental clearance will be scrupulously followed.

Condition 40

No change in mining technology and scope of work should be made without prior approval of the SEIAA, No further expansion or modifications in the mines shall be carried out without prior approval of the SEIAA, as applicable.

√ Compliance

We will not make any changes in mining technology and scope of work without prior approval of the SEIAA and further expansion or modifications in the mines will not be carried out without prior approval of the SEIAA.

> Condition 41

The project proponent shall ensure that no natural water course and/or water recourses shall be obstructed due to any mining operations. Necessary safe guard

measures to protect the first order streams if any, originated from the mine lease shall be taken.

√ Compliance

We ensure that no natural water course and/or water recourses has not obstructed due to any mining operations. There is no first order streams originated from the mine lease.

Condition 42

Monitoring of Ambient Air Quality to be carried out based on the notification 2009, as amended from the time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points and transfer points to reduce fugitive emission.

√ Compliance

Project team monitoring the Ambient Air Quality based on the notification 2009, as amended from the time to time by the Central Pollution Control Board. Water sprinklers has installed at places viz. loading and unloading points and transfer points to reduce fugitive emission. Copy of the Ambient Air Quality is enclosed as Annexure 15.

Condition 43

The top soil, if any, shall be temporarily be stored at earmarked site(s) only for the top soil shall be used for land reclamation and plantation. The overburden generated during the mining operation shall be stacked at earmarked dump site(s) only. The maximum height of the dump shall not exceed 8m and width 20m and overall slope of the dump shall be maintained to 45°. The O.B. dump should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for the stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated area should continue until the vegetation become self-sustaining.

√ Compliance

Top soil and overburden of the project area is stacking at earmarked dump site only. The maximum height of the dump will not exceed 8m and width 20m and

overall slope of the dump will be maintained to 45°. The O.B. dump will be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, we will use geo textiles undertaken for the stabilization of the dump. The entire excavated area will be backfilled. We will monitor and manage the rehabilitated area until the vegetation become self-sustaining.

Condition 44

Catch drains and siltation ponds of appropriate site shall be constructed around the mine working mineral and O.B. dumps to prevent runoff water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.

√ Compliance

Around the mine working, mineral and O.B. dumps, siltation ponds and catch drains has provided to prevent runoff water and flow of sediments directly into the river and other water bodies. The water so collected will be utilized for watering the mine area, roads, green belt development etc. The drains will be regularly desilted particularly after monsoon and maintained properly.

Condition 45

Effective safe guard measures such as regular water sprinkling shall be carried out in critical areas porn to air pollution and having high levels of PM_{10} and PM_{25} such as haul road loading and uploading points and transfer points. It shall be ensure that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

√ Compliance

Effectual safe guard methods such as regular water sprinkling is carrying out in critical areas porn to air pollution and having high levels of PM_{10} and PM_{25} such as haul road loading and uploading points and transfer points. It will be ensuring that the Ambient Air Quality Parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.

> Condition 46

Fugitive dust emission from all the sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading at transfer points. Should be provided and properly maintained.

√ Compliance

Fugitive dust emission from all the sources is controlling regularly. Water spraying arrangements on haul roads, loading and unloading at transfer points has arranged and properly maintained.

Condition 47

Measures should be taken for the control of Noise level below 85 DBA in the work environment.

√ Compliance

Measures have taken for the control of noise level below 85 DBA in the work environment. We have been checking the Ambient Sound level periodically and the copy of the same as enclosed as Annexure 16.

Condition 48

A separate Environment Management Cell with suitable qualified personal should be setup under the control of a senior executive who will directly report to the head of the organization.

√ Compliance

A separate Environment Management Cell with suitable qualified personal will be setup shortly under the control of a senior executive who will directly report to the head of the organization.

> Condition 49

The funds earmarked for the Environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environmental Impact Assessment Authority (SEIAA) office.

√ Compliance

The amount earmarked for the Environmental protection measures and CSR activities are keeping in separate account and will not diverted for other purpose. We will reports year wise expenditure to the State Environmental Impact Assessment Authority (SEIAA) office.

➤ Condition 50

The regional office of MOEF and CC located at Bangalore shall monitor compliance of the stipulated conditions. The project Authorities should extent full co-operation to the officer (s) of the regional office by furnishing the requisite data/information/monitoring reports.

√ Compliance

We will extent full co-operation to the MOEF officer (s) of the regional office by furnishing the requisite data/information/monitoring reports.

> Condition 51

Any appeal against the Environmental Clearance shall lie with the National Green Tribunal, if preferred within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

√ Compliance

There is no appeal against this Environmental Clearance with the National Green Tribunal.

Condition 52

Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in the withdrawal of this clearance and attract action under the provision of Environmental Protection Act, 1986.

√ Compliance

We agreed

Condition 53

The SEIAA may revoke, or suspend the order for non-implementation of any of the specific or this implementation of any of the conditions is not satisfactory. The SEIAA

reserves the right to alter/modify the above conditions or stipulate any further conditions or stipulate any further conditions in the interest of Environmental Protection.

√ Compliance

We agreed

Condition 54

The above conditions shall prevail not withstanding anything to the contrary in consistent or simplified, contained in any other permit, license on consent given by any other authority for any other project.

√ Compliance

We agreed

Condition 55

The order is valid for a period of 5 years or the expiry date of mining lease period issued by the Government of Kerala, whichever is earlier.

√ Compliance

We agreed

Condition 56

The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.

√ Compliance

There is no pending litigation related to the land or project, in any court of law regarding this project.

Condition 57

The mining operation shall restrict to above ground water table and it should not intersect ground water table.

√ Compliance

We carried out mining only above the ground water table and it will not intersect ground water table.

> Condition 58

All vehicles used for transportation and within the mine shall have 'PUC' certificate from authorized pollution taking center. Washing of all vehicles shall be in the lease area.

✓ Compliance

All the vehicles have been washing within in the lease area. All vehicles using for the transportation and within the mine have obtained 'PUC' certificate from authorized pollution taking center.

> Condition 59

Project proponent should obtain necessary prior permission of the competent authorities for withdrawal of requisite quantity of surface water and ground water for the project.

√ Compliance

If needed, we will obtain necessary prior permission of the competent authorities for the withdrawal of requisite quantity of surface water and ground water for the project.

> Condition 60

Regular monitoring of flow rates and water quality upstream and down streams of the spring and perennial nallahs flowing in and around the mining lease area shall be carried out and reported in the six monthly reports to the SEIAA.

√ Compliance

We have monitoring the flow rates and water quality upstream and down streams of the spring and perennial nallahs flowing in and around the mining lease area and it will reported in the six monthly reports to the SEIAA. Copy of the water quality reports enclosed as Annexure 17.

> Condition 61

Occupational Health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures if needed.

✓ Compliance

To detect any contractions due to exposure to dust, we are carrying out Occupational Health surveillance programme of the workers periodically and take corrective measures if needed in connection with Mines Vocational Training.

ANNEXURE 1





Photograph showing the barbed metal wire fencing erected around the mining area

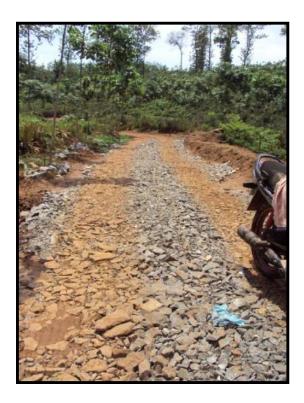
ANNEXURE 2





Photographs showing the top soil and OB storage area

Annexure 3





Photograph showing access road maintained by paving granite stone

Annexure 4





Photograph showing the rain water harvesting tank

Annexure 4A

അനീഷ് ചികിത്സാ സഹായ നിധി പി. ഒ. കട്ടിലപൂവ്വം, തൃശ്ശൂർ – ഒരേ 028
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			കിട്ടിബോധി

Annexure 5



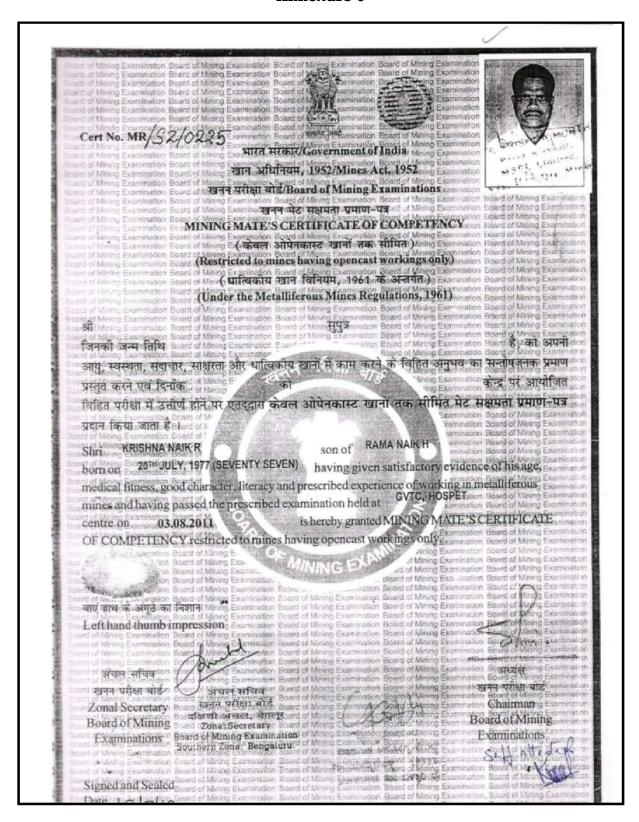
Tree saplings planted near to the project area

Annexure 5A



Solar Panel installed near the project area

Annexure 6



MR			
,To			
SHRI KRIS	SHNA NAIK R S/o. RAMA NAIK H,		
** ***			
Home Address	MARIYAMMANAHALLI		
Village	MARIYAMMANAHALLI		
PO Police Station	LLITHANDA	_	
	BELLARY	Salat S.	
District	KARNATAKA		
State			
Certi	2 grade estated fit the 事 由 2	हया जाता है। ualified medical	No.
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Annexure 7





The photograph showing bench type mining

Annexure No.7A





Annexure 8





FILE NO: PCB/TSR/IC/7170/2016

Date of issue: 14/06/2016



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

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

and -

The Environment (Protection) Act, 1986

As per Application No. :2137886 Dated:27-11-2015

TO

M/s RUDRA GRANITES KUNDUKAD P.O, KARUVANKADU,THRISSUR-680028 680028

Consent No. :PCB/DO/TSR/F/ICO/5494 /2016 Valid Upto :31/10/2018







I. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	VALIDITY	31/10/2018
2	Name and Address of the establishment	RUDRA GRANITES KUNDUKADAG
3	Communication	KARUVANKADU, THRISSUR-680028 680028 Telephone:-Fax:- E-mail:dineshnt683@gmail.com
4	Occupier Details	DINESH MON N.T.NEENDUTHALAKKAL HOUSE, P. O. KUNDUKAD,MUTTIKKAL,KARUVANKADU. THRISSUR-680028
5	Local Body	MULAKUNNATHUKAVU
6	Survey Number	1244/1P
7 .	Village	KILLANNUR
8	Taluk	THRISSUR
9	District	THRISSUR
10.	Capital Investment(Rs in Lakhs)	10
11	Scale	Small
12	Category	RED
13	Annual fee(Rs)	2370/-
	Total Fee remitted(Rs)	15.405/-
14	RAW MATERIAL	PRODUCTS
	GRANITE BUILDING STONE @ 150 Metric Tonnes	QUARRYING FROM 4.9531 HECTARE OF LAND
	*	
		*
- 1		
7		
5	Total Power Required (HP)	

2. CONDITIONS AS PER

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

- In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if along with
- 2.2 Water consumption: 50 Litre/day
- 2.3 Effluent generation:
- 2.4 The characteristics of effluent after treat



n to the following tolerance limits:

SLNC). Characteristics	Unit	Tal	erance Limit	
× _			Sew	age	Trade Effluent
2.5	Mode of disposal of	treated effluent:			
			*		
	ONDITIONS AS PER				
Ti	ne Air(Prevention and C	Control of Pollution	Act, 1981		a 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3.1					
2.1	industry. Additional also be made along w	n control measures sh facilities required, if a rith.	all be operation ny, to achieve	nal at all times d the standards laid	uring the functioning of the d down by the Board shall
Stack	6	,	-		4 44
No.	Sources of Emission	Emission Rate(Nm3/Hr)	Stack Heigh	nt above	Control Equipment
			Ground Level	Roof Level	
I.No.		Parameter		Limiting	Standards (mg/Nm3)
. сс	ONDITIONS AS PER	(4		Limiting	Standards (mg/Nm3)
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. CC	The operation of the in	on) Act, 1986.	in compliance		Standards (mg/Nm3)
. CC	The operation of the in (Regulation and Control	on) Act, 1986. dustry shall be strictly oil) Rules 2000.		with the provis	
. CC The	The operation of the in (Regulation and Control Used lead acid batteric 2001 Hazardous waste general	on) Act, 1986. Idustry shall be strictly oil) Rules 2000. Is shall be disposed of	as per the Batt	with the provis	ions of the Noise Pollution ent and Handling) Rules,
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	The operation of the in (Regulation and Control Used lead acid batteric 2001 Hazardous waste gener Handling and Transbot Activities for which Activities fo	on) Act, 1986. Idustry shall be strictly oi) Rules 2000 s shall be disposed of rated, if any, shall be h undary Movement) Ru uthorisation is granted	as per the Batt andled as per iles, 2008. transport Storage Reprocessing	with the proviseries (Managem the Hazardous W	ions of the Noise Pollution ent and Handling) Rules, aste (Management,
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5. SPECIFIC CONDITIONS

- 5.1 The location of the industry/out let shall be as per the approved drawing attached.
- 5.2 This consent is granted for operating quarry with production capacity of 150 MT/day granite boulders.
- 5.3 The consent is granted subject to the power of the board to review and make variations to all or any of the conditions as per the Board deems fit as per the relevant Acts/Rules.
- 5.4 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.
- 5.5 A minimum distance of 100m shall be kept from the boundary of quarry area to residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway line and bridges.
- 5.6 All control measures provided should be maintained properly to ensure that the system is adequate to control the pollution caused.
- 5.7 The quarry should not be operated between 6.00 pm and 6.00am.
- 5.8 Necessary permission from Mining & Geology, Explosive Department may be obtained before doing blasting.
- 5.9 After excavation at the site is completed the land may be used for rain water harvesting with protective barriers any other suitable approved purpose or may be reclaimed.
- 6.0 The depth of excavation below the highest point shall not exceed 6m.
- 6.1 Fencing shall be provided around the boundary of quarry operation and shall be maintained properly.
- 6.2 This consent is granted for quarrying of exposed rock only.
- 6.3 The PM10 in ambient air at the boundary shall not exceed 100 μg/m³.
- 6.4 The PM2.5 in ambient air at the boundary shall not exceed 60 μg/m3.
- 6.5 The sound level (Leq) at 1m outside the boundary of the site should not exceed the ambient noise standard applicable to the adjoining areas.
- 6.6 Suspended particulate matter at the boundary of the premises shall not exceed the limit applicable to that area as per the National Ambient Air Quality Standards.
- 6.7 The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearance from other concerned authorities are valid.
- 6.8 The renewal application shall be submitted on or before 31.07.2018. Late application shall be accepted only with fine as applicable.
- 6.9 The quarrying lease document from mining and geology department shall be produced within one month of receipt of the same from the department. Otherwise the consent shall be revoked

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SIGNATURE & SEAL OF IS

P.K. BABURAJAN

DATE:17/06/2016

Page Lof 1

Annexure 10

GOVERNMENT OF INDIA
MINISTRY OF COMMERCE & INDUSTRY
PETROLEUM AND EXPLOSIVES SAFETY ORGANISATION(PESO)
(Formerly Department of Explosives)
Kendriya Bhavan, Block C-2, 3rd Floor
CSEZ PO Kakkanad Dist, Ernakulam Ernakulam 682037

Tele: 2427286 Fax: 2427276 Email: dycceernakulam@explosives.gov.in

No:E/8E/KL/22/1(E84010)

Dated: 11/11/2014

Shri N T Dineshmon.

Neenduthalakkal House Muttikkal Kundukadu P.O. Thrissur ,kUNDUKADU

Distt. THRISSUR, State. Kerala, Pincode-680028

Subject:

Possession for Use of Explosives from magazine at Survey No.:1244/1, Village/Town. Killannur, Distt. THRISSUR, State Kerala Licence No.: E/SE/KL/22/1(E84010) granted in Form LE-3 of Explosives Rules, 2008 - Endorsement regarding

Siris).

Conditions

1)Valid authorised quarry permit in the name of the licensee for blasting operations at Sy.No.1244/1, Killannoof Village. Thrissur Taluk and District and local State Government authorities approval as applicable renewed from time to time shall be in possession. Reference memo No.: E/SE/KL/22/1(E84010) Dated 10/11/2014 from Dy. Chief Controller of Explosives, Ernakulam and inspection of the subject premises by an officer of this organization on 08/11/2014.

The subject licence No. E/SE/KL/22/1(E84010) valid upto 31st March 2018 duly endorsed as required under Rule 107(3) of the Explosives Rules 2008 is forwarded herewith

For further renewal of licence, please submit following documents so as to reach this office on or before 31/03/2018.

- · Application in Form RE-1 duly filled in and signed.
- Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at Chennai.
- · Original licence with approved plan
- In this connection, please also refer to Rule 112 of Explosives Rules, 2008.
- Indent for purchase of explosives shall be ptaced in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireorks store house)
- Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter. (Not applicable for fireorks store house)
- All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

(TO Sasi

ours faithfully

Deputy Chief Controller of Explosives

Copy Forwarded to:

District Magistrate, THRISSUR, Kerala with reference to his Noc No: C6/33393/2014/K.Dis Dated: 09/10/2014

Deputy Chief Controller of Explosives Ernakulam

[For more information regarding status, foes and other details, please visit our web site http://explosives.gos/sn/

Page 1 of 1 LICENCE FORM LE-3 (See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008) Licence to possess: (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine ानुस्ति प्रकाशिल LICENCE ENDORSED icence No.: E/SE/KL/22/1(E84010) innual Fee Rs:2400/-इस्सहलन . Ernakulam Shri N T Dineshmon (Occupier : N T Dineshmon) Neenduthalakkal House Muttikkal Kundukadu P.O. Thrissur ,kUN 1. Licence is hereby granted to KILLANNUR District-THRISSUR, State-Kerala, Pincode - 680028 Licence is valid only for the following purpose: possess for use of Nitrate Mixture, Safety Fuse, Ordinary Detonator, Electric Status of licensee: Individual Detonators. (a) Licence is valid for the following kinds and quantity of explosives Quantity Sub-division at any one time Class & Division Name and Description (If any) Sr. No 75 Kg Nitrate Mixture 1100 Mtr Safety Fuse 2000 Nos 6.3 Ordinary Detonator 1000 Nos 6.3 Electric Detonators (b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]: 3 times as above. The licensed premises shall conform to the following drawing(s): Drawing No : E/SE/KL/22/I(E84010) dated : 31/10/2014 The licensed premises are situated at following address: Survey No. 1244/1, Town/Village: Killannur State Kerala District: THRISSUR Police Station : Viyyur Fax E-Mail : rudragranite@gmail.com Phone: 9744766116 PinCode 680028 7. The licensed premises consist of following facilities: Portable Magazines D Type No.706 and E type No.956 The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

(1) Drawings (showing site, constructional and other details) as stated in serial No. 5 above. (2) Conditions and Additional Conditions of this licence signed by the licensing authority. (3) Distance Form DE-2 9 This ficence shall remain valid till 31st day of March 2018 This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto Dy. Chief Controller of Explosives The Date: 31/10/2014 Ernakulam Craak. Endorsement for renewal of licence Signature of licensing authority Date of Expiry Date of Renewal Statutory Warning: Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Page 1 of 1 Form DE-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 ESE/KL/22/1(E84010) in form LE-3 granted to Shri N T Dineshmon, Neenduthalakkal House Muttikkal Kundukadu P.O. Thrissur ,kUNDUKADU, Kerala-680028 . Type of Structure(s) Safety distances meters Inside Safety Distances(ISD) Room or Workshop used in Connection with the Magazine Any other Explosives Magazine or store House or Factory of the Applicant Magazine Office Middle Safety Distances(MSD) Magazine Keeper's or Chowkidar's Dwelling house Railway including Minerals and Private Railways Canal (in active use) or other navigable water Dock or Pier or Jetty Public Highway or Public Road 33 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 Reservoir or Bounded tank/rope way 12 Windmillor 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 18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances 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 Warehouse or other Storage Building 26 Any other Protected works Overhead Electric lines 27 Electric Power over head Transmission Lines above 440V 28 Electric Power over head Transmission Lines upto 440V 15 The Date: 31/10/2014 For Dy. Chief Controller of Explosives 3.5 C. A. C. C. Strakelam



भारत सरकार | Government of India वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (ऐसी) | Petroleum & Explosives Safety Organisation (PESO) पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor CSEZ पी.ओ.कक्कानाड कोच्यो | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037

फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276 ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SE/KL/22/1(E84010)

दिनांक (Date): 20/02/2018

सेवा में | То,

Shri N T Dineshmon,

Neenduthalakkal House Muttikkal Kundukadu P.O. Thrissur ,kUNDUKADU, Town/Village - KILLANNUR

District-THRISSUR, State-Kerala, Pincode - 680028

Survey No.1244/1, ग्राम Killannur, जिला THRISSUR, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेत् विस्फोटक नियम.

2008 के अंतर्गत LE-3 में जारी अनुजप्ति सं E/SE/KL/22/I(E84010) के नवीनीकरण संदर्भ में।

Possession for Use of of Explosives from magazine situated at Survey No.:1244/1, Killannur, Dist. THRISSUR, Kerala -Licence No.: E/SE/KL/22/1 (E84010) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

Subject महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 24/01/2018 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुत्रप्ति दिनांक 31/3/2023 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही हैं। Reference to your letter No.: Nil dated: 24/01/2018, the subject licence duly renewed upto 31/3/2023 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded

अन्जप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2023 से पहले इस कार्यालय को भेजे जाएं.

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2023.

प्ररूप आरर्ड-। में विधिवत पर्ण एवं हस्ताक्षरित आवेदन।

Application in Form RE-1 duly filled in and signed.

 एक से पाँच वर्ष के अनुजित्त शुल्क का बैंक झफ्ट। बैंक झफ्ट किसी भी राष्ट्रीयकृत बैंक के नाम आहरित, संयुक्त मुख्य विस्फोटक नियंत्रक. चेन्नई के पक्ष में चेन्नई में देय हों। Licence fees for one to five years in the form of demand draft drawn on any Nationalized Bank in favour of Jt. Chief Controller of Explosives, Chennai payable at

अनुमोदित प्लान के साथ मूल अन्जप्ति।

Original licence with approved plan.

कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें। In this connection, please also refer to Rule 112 of Explosives Rules, 2008.

• विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय का भैजी जाएं (आतिशवाजी गोदाम के लिए लागू Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)

• कृपया विस्फोटकों की त्रैमासीक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाएं । विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशवाजी गोदाम के लिए लागू नहीं) I Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter. (Not applicable for fireworks store house)

 सभी ब्लास्टिंग आपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग आपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो। All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act

आपके खाते में रूपए 800/- की राशि शेष हैं जो इस संदर्भ को उद्धत करते हुए भविष्य के संव्यवहार में समायोजित की जा सकती है । An amount of Rs. 800/- balance is in your credit, which may be utilized for future transaction by quoting this reference.

's faithfully

(एस.एम.कुलकर्णी | S M Kulkarni)

3प मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

उ.स. निर्मिने हुन्यूस्पान्यः तम

प्रतिलिपि प्रेषित | Copy Forwarded to:

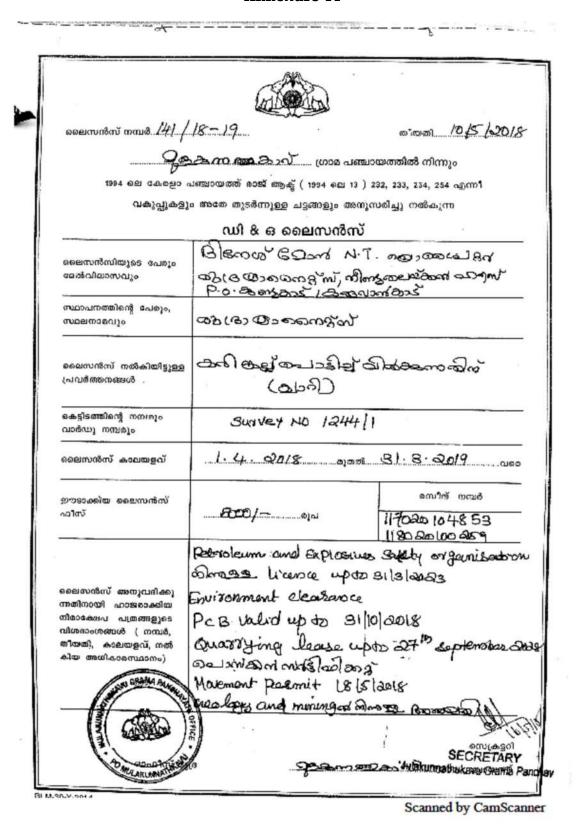
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1. ज़िला मजिस्ट्रेट (District Magistrate), THRISSUR (Kerala)- सूचना के लिए (for information.)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives कोच्ची | Ernakulam

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट http://peso.gov.in देखें.) (For more information regarding status, fees and other details please visit our website http://peso.gov.in)

अन्जप्ति प्ररुप एल. ई.-3 | LICENCE FORM LE-3 (विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।) (See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008) (ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने Licence to possess: (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine अनुज्ञप्ति सं. (Licence No.) : E/SE/KL/22/1(E84010) बेक फीस रुपए (Annual Fee Rs): 2400/-1. Licence is hereby granted to Shri N T Dineshmon (대대기가 / Occupier : N T Dineshmon), Neenduthalakkal House Muttikkal Kundukadu P.O. Thrissur ,kUNDUKADU, T KILLANNUR, District-THRISSUR, State-Kerala, Pincode - 680028 /Village को अनुज्ञप्ति अनुदत्त की जाती है। 2. अनगप्तिधारी की प्रास्थिति | Status of licensee : Individual 3. अनज्ञप्ति निम्निलिखित प्रयोजनों के लिए विधिमान्य है। Fuse, Electric and/or Ordinary possess for use of Nitrate Mixture, Safety Detonators, - के उपयोग के लिए Licence is valid only for the following purpose. 4. अनुज्ञप्ति विस्फोटकों के निम्निलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: - (क) (a) क नाम और विवरण वर्ग और प्रभाग मात्रा किसी एक समय में उप-प्रभाग Class & Division Quantity at any one time Sr. No. . Name and Description Sub-division 75 Kg. I. Nitrate Mixture 2.0 Safety Fuse 1100 Mtrs · 0 1000 Nos. 3. Electric and/or Ordinary Detonators 6,3 (ख) किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अन्च्छेद 3(ख) और (ग) के अधीन अनुजस्ति के लिए] 10 times as above. (b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]: . रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/1(E84010) दिनांक (Dated) 31/10/2014 5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अन्जप्त परिसर की पृष्टि होती है। The licensed premises shall conform to the following drawing(s): . 5. अन्जप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 1244/1 , ग्राम (Town/Village) : Killannur प्लिस थाना (Police Station) : Viyyur पिनकोड (Pincode) 680028 जिला (District) THRISSUR राज्य (State) फैक्स (Fax) ई. मेल (E-Mail) rudragranite@gmail.com दूरभाष (Phone) 9744766116 ' अन्जप्ति परिसर में निम्नतिखित स्विधाएं अंतर्विष्ट हैं। : Portable Magazines D Type No.706 and E type No.956 The licensed premises consist of following facilities. ं अनुजप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधो, शर्तो और अतिरिक्त शर्तो और निम्निलिखित उपावध्दों के अधीन रहते हुए अनुदत्त की जाती है। The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सिन्नर्माण संबंधी और अन्य विवरण दिशित करते हए)। Drawings (showing site, constructional and other details) as stated in serial No. 5 above. अनुजन्ति प्राधिकारी ब्दारग हस्ता.क्षरित इस अनुजन्ति की शर्ते और अतिरिक्ति शर्ते। Conditions and Additional Conditions of this licence signed by the licensing authority. दूरी प्ररूप DE-2 | Distance Form DE-2. यह अनुज्ञप्ति तारीख 31 मार्च 2018 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2018. यह अनुजप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुजप्ति की शतों का अधिक्रमण करने या यदि अनुजप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरुप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached तारीख | The Date - 31/10/2014 उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of Explosives Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 18/07/2017 नवीनीकरण के पृष्ठांकन के लिए स्थान Space for Endorsement of Renewal नवीकरण की तारीख समाप्ति की तारीख अनजापन प्राधिकारी के हस्ताक्षर और स्टाम्प Date of Renewal Signature of licensing authority and stamp Date of Expiry 20/02/2018 31/03/2023 Dy. Chief Controller of Explosives, Ernakulam उ.मु.वि.नि., एरनाकुतम D. C. C. E., Ernakulan कानुनी चेतावनी : विस्फोटकों को गलत दंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दांडिक अपराध होगा।





ലൈസൻസുടമസ്ഥർ താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

- പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
- മതാഴിൽ സ്ഥലവും പരിസരങ്ങളും വെടിപ്പായും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്തവിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പോടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
- മതാഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ/സെക്രട്ടറി അധികാരപ്പെടുത്തുന്നമറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസുടമസ്ഥൻ വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
- പഞ്ചായത്തിൽ നിന്നും അനുവാദം സിദ്ധിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാവുന്നതല്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മൂൻകുട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
- ഏതൊരു പ്രവർത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
- െ ആ സ്ഥലത്തിൻെറയോ പുരയിടത്തിൻെറയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൃഗങ്ങളുടെ തുണ്ടുകളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച് സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
- 7. ലൈസൻസൂകാരൻ ഏതൊരു കെട്ടിടത്തിൻെറയും ചുമരുകളുടെ അകവശത്തിൻെറ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പുരയിടത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവിഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകരോ, മാലിനൃമോ ചപ്പുചവറോ, അസഹൃമോ, ഉപദ്രവകരമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായും കേടുപാട് തിർത്തും വയ്പിക്കേണ്ടതാണ്.
- ലൈസൻസൂകാരൻ മേൽപറഞ്ഞ പുരയിടത്തിലോ, അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായും കേടുപാടുതിർത്തും വയ്പിക്കേണ്ടതാണ്.
- ഴ. ഏതെങ്കിലും തരത്തിലുള്ള തിക്ക് രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന യാതൊരു പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
- ന്റെ ഏത് സ്ഥലത്തിൻെറ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്കവിധ ത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസുകാരൻ തൻെറ പേരും, ലൈസൻസിൻെറ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
- അയിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചെയ്യുന്നതാണ്.

മുകളിൽ കാണിച്ചിരിക്കുന്ന വൃവസ്ഥകളിൽ ഏതെങ്കിലും ലംഘിക്കുന്ന പക്ഷം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യുന്നതാണ്.

R. SUBRAMANIAN

Secretary (in charge) Mulankunnathukavu Grama Panchayat



Annexure 13



Annexure 14



Photograph showing the details of the environmental clearance order prominently displayed in a metallic board



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

TEST REPORT

Client Name & Address	Certificate No	PL/AMB/RT/3378/2015
	Date of issue	03/06/2015
	Date of monitoring	28/05/2015 11.45 Hrs to 29/05/2015 11.45 Hrs
M DI L MT	Date of sample received	29/05/2015
Mr.Dineshmon N.T Rudra Granites,	Date of analysis started	30/05/2015
Kundukad (P.O), Karuvankad, Thrissur.	Monitoring location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District –Thrissur
	Sample description	Ambient air - Near West side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	LIMITS
Particulate Matter (PM ₁₀)	1 S 5182 Part 4 1999	37.6 μg/M ³	100 μg/M ³
Particulate Matter (PM _{2.5})	CPCB	17.5 μg/M ³	60 μg/M ³
Sulphur dioxide	I S 5182 Part 2 2001	10.5 μg/M ³	80 μg/M ³
Nitrogen dioxide	IS 5182 Part 06 1975	6.2 μg/M ³	80 μg/M ³

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AUTHORIZED SIGNATORY

SREEJA RAMESH

Quality Manager Poluchem Laboratories (P) Ltd.

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



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TEST REPORT

Client Name & Address	Certificate No	PL/AMB/RT/3377/2015
	Date of issue	03/06/2015
	Date of monitoring	28/05/2015 11.30 Hrs to 29/05/2015 11.30 Hrs
Mr.Dineshmon N.T	Date of sample received	29/05/2015
Rudra Granites,	Date of analysis started	30/05/2015
Kundukad (P.O), Karuvankad, Thrissur.	Monitoring location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District –Thrissur
	Sample description	Ambient air - Near South side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	LIMITS
Particulate Matter (PM ₁₀)	1 S 5182 Part 4 1999	39.5 μg/M ³	100 μg/M ³
Particulate Matter (PM _{2.5})	СРСВ	18.8 μg/M ³	60 μg/M ³
Sulphur dioxide	I S 5182 Part 2 2001	11.1 μg/M ³	80 μg/M ³
Nitrogen dioxide	IS 5182 Part 06 1975	$6.8 \mu g/M^{3}$	80 μg/M ³

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Quality Manager Poluchem Laboratories (P) Ltd.

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TEST REPORT

Client Name & Address	Certificate No	PL/AMB/RT/3375/2015
	Date of issue	03/06/2015
	Date of monitoring	28/05/2015 11.00 Hrs to 29/05/2015 11.00 Hrs
	Date of sample received	29/05/2015
	Date of analysis started	30/05/2015
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District –Thrissur
	Sample description	Ambient air - Near east side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	LIMITS
Particulate Matter (PM ₁₀)	I S 5182 Part 4 1999	38.3 μg/M ³	100 μg/M ³
Particulate Matter (PM _{2.5})	CPCB	18.0 μg/M ³	60 μg/M ³
Sulphur dioxide	I S 5182 Part 2 2001	10.8 μg/M ³	80 μg/M ³
Nitrogen dioxide	IS 5182 Part 06 1975	6.5 μg/M ³	80 μg/M ³

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TEST REPORT

Client Name & Address	Certificate No	PL/AMB/RT/3376/2015
	Date of issue	03/06/2015
	Date of monitoring	28/05/2015 11.15 Hrs to 29/05/2015 11.15 Hrs
	Date of sample received	29/05/2015
	Date of analysis started	30/05/2015
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District –Thrissur
	Sample description	Ambient air - Near North side boundary
	Sample code given by the client	Nil

PARAMETERS	TEST METHOD	RESULT	LIMITS
Particulate Matter (PM ₁₀)	1 S 5182 Part 4 1999	35.4 μg/M ³	100 μg/M ³
Particulate Matter (PM _{2.5})	CPCB	16.6 μg/M ³	60 μg/M ³
Sulphur dioxide	1 S 5182 Part 2 2001	10.1 μg/M ³	80 μg/M ³
Nitrogen dioxide	IS 5182 Part 06 1975	6.0 μg/M ³	80 μg/M ³

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TEST REPORT

Client Name & Address	Certificate No:	PL/RT/SD/3382/2015
	Date of issue:	03/06/2015
N. W	Date of monitoring	28/05/2015 11.45 Hrs to 29/05/2015 11.45 Hrs
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring Location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District —Thrissur
	Sample Description	Ambient Sound Level (Leq)

Monitoring Location	Monitoring Time	Results
	11.45 Hrs	39.1 dB (A)
	12.45 Hrs	40.3 dB (A)
	13.45 Hrs	42.1 dB (A)
	14.45 Hrs	41.7 dB (A)
	15.45 Hrs	40.5 dB (A)
	16.45 Hrs	37.6 dB (A)
	17.45 Hrs	37.8 dB (A)
	18.45 Hrs	37.4 dB (A)
	19.45 Hrs	37.2 dB (A)
	20.45 Hrs	36.8 dB (A)
	21.45 Hrs	37.7 dB (A)
Near West side boundary	22.45 Hrs	36.9 dB (A)
real rest side boundary	23.45 Hrs	36.3 dB (A)
	00.45 Hrs	36.0 dB (A)
	01.45 Hrs	35.6 dB (A)
	02.45 Hrs	35.1 dB (A)
	03.45 Hrs	36.2 dB (A)
	04.45 Hrs	36.7 dB (A)
	05.45 Hrs	37.3 dB (A)
	06.45 Hrs	37.9 dB (A)
	07.45 Hrs	39.4 dB (A)
	08.45 Hrs	40.3 dB (A)
	09.45 Hrs	41.5 dB (A)
	10.45 Hrs	42.6 dB (A)
eq (Day time)		39.4 dB (A)
eq (Night time)		36.1 dB (A)

For Poluchem Laboratories (P) Ltd.

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Client Name & Address	Certificate No:	PL/RT/SD/3379/2015
	Date of issue:	03/06/2015
M D' 1 1 1 1	Date of monitoring	28/05/2015 11.00 Hrs to 29/05/2015 11.00 Hrs
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring Location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District –Thrissur
	Sample Description	Ambient Sound Level (Leg)

Monitoring Location	Monitoring Time	Results
	11.00 Hrs	38.9 dB (A)
	12.00 Hrs	36.1 dB (A)
	13.00 Hrs	39.5 dB (A)
	14.00 Hrs	40.6 dB (A)
	15.00 Hrs	40.9 dB (A)
	16.00 Hrs	42.1 dB (A)
	17.00 Hrs	41.2 dB (A)
	18.00 Hrs	40.6 dB (A)
	19.00 Hrs	38.1 dB (A)
Near east side boundary	20.00 Hrs	37.4 dB (A)
	21.00 Hrs	36.1 dB (A)
	. 22.00 Hrs	35.4 dB (A)
real cast side boundary	23.00 Hrs	35.1 dB (A)
	00.00 Hrs	35.0 dB (A)
	01.00 Hrs	35.7 dB (A)
	02.00 Hrs	35.4 dB (A)
	03.00 Hrs	34.9 dB (A)
	04.00 Hrs	35.3 dB (A)
	05.00 Hrs	35.6 dB (A)
	06.00 Hrs	36.4 dB (A)
	07.00 Hrs	36.8 dB (A)
	08.00 Hrs	39.2 dB (A)
	09.00 Hrs	40.4 dB (A)
19	10.00 Hrs	43.2 dB (A)
eq (Day time)		39.3 dB (A)
eq (Night time)		35.5 dB (A)

For Poluchem Laboratories (P) Ltd.

Quality Manager



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TEST REPORT

Client Name & Address	Certificate No:	PL/RT/SD/3381/2015
M-D' - 1 - 1 - 1	Date of issue:	03/06/2015
	Date of monitoring	28/05/2015 11.30 Hrs to 29/05/2015 11.30 Hrs
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring Location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District —Thrissur
	Sample Description	Ambient Sound Level (Leg)

Monitoring Location	Monitoring Time	Results
	11.30 Hrs	37.8 dB (A)
	12.30 Hrs	37.5 dB (A)
	13.30 Hrs	39.1 dB (A)
	14.30 Hrs	38.6 dB (A)
741	15.30 Hrs	39.0 dB (A)
	16.30 Hrs	38.9 dB (A)
	17.30 Hrs	38.6 dB (A)
	18.30 Hrs	38.4 dB (A)
	19.30 Hrs	38.0 dB (A)
	20.30 Hrs	37.9 dB (A)
	21.30 Hrs	38.3 dB (A)
Near South side boundary	22.30 Hrs	37.4 dB (A)
_	23.30 Hrs	37.1 dB (A)
	00.30 Hrs	37.0 dB (A)
_	01.30 Hrs	36.9 dB (A)
	02.30 Hrs	37.1 dB (A)
	03.30 Hrs	37.3 dB (A)
_	04.30 Hrs	37.0 dB (A)
	05.30 Hrs	37.4 dB (A)
	06.30 Hrs	39.2 dB (A)
	07.30 Hrs	37.8 dB (A)
	08.30 Hrs	38.4 dB (A)
	09.30 Hrs	39.0 dB (A)
	10.30 Hrs	39.7 dB (A)
eq (Day time)		38.2 dB (A)
eq (Night time)		36.5 dB (A)

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TEST REPORT

Client Name & Address	Certificate No:	PL/RT/SD/3380/2015
	Date of issue:	03/06/2015
	Date of monitoring	28/05/2015 11.15 Hrs to 29/05/2015 11.15 Hrs
Mr.Dineshmon N.T Rudra Granites, Kundukad (P.O), Karuvankad, Thrissur.	Monitoring Location	M/s. Rudra Granites, Kundukad (PO), Karuvankad, Thrissur Survey Nos: 1244/1P Village- Killannoor Panchayath- Mulakunnathukavu Taluk- Thrissur District —Thrissur
	Sample Description	Ambient Sound Level (Leq)

Monitoring Location	Monitoring Time	Results
	11.15 Hrs	41.5 dB (A)
	12.15 Hrs	40.3 dB (A)
	13.15 Hrs	41.7 dB (A)
	14.15 Hrs	41.7 dB (A)
	15.15 Hrs	42.1 dB (A)
	16.15 Hrs	40.4 dB (A)
	17.15 Hrs	39.5 dB (A)
	18.15 Hrs	39.7 dB (A)
	19.15 Hrs	39.3 dB (A)
	20.15 Hrs	38.4 dB (A)
	21.15 Hrs	37.6 dB (A)
ear North side boundary	22.15 Hrs	37.2 dB (A)
car (voith side boundary	23.15 Hrs	37.0 dB (A)
	00.15 Hrs	36.8 dB (A)
	01.15 Hrs	36.4 dB (A)
	02.15 Hrs	36.1 dB (A)
	03.15 Hrs	35.9 dB (A)
	04.15 Hrs	36.3 dB (A)
	05.15 Hrs	36.8 dB (A)
	06.15 Hrs	37.1 dB (A)
	07.15 Hrs	38.8 dB (A)
	08.15 Hrs	38.1 dB (A)
	09.15 Hrs	39.4 dB (A)
	10.15 Hrs	39.7 dB (A)
q (Day time)		39.5 dB (A)
eq (Night time)		36.0 dB (A)
1		30.0 dB (A)

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Page 01 of 02

Annexure 17



Project Site

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TEST REPORT

Ref.No. PL/RT/BW/3370/2015

Name & address of customer

Date of Issue: 03/06/2015

: Mr.Dineshmon N.T

Rudra Granites, Kundukad (P.O),

Karuvankad, Thrissur. : M/s. Rudra Granites,

Kundukad (PO), Karuvankad, Thrissur

Survey Nos: 1244/1P Village- Killannoor

Panchayath- Mulakunnathukavu

Taluk- Thrissur District - Thrissur

Sample description : Drinking Water
Location of sampling Openwell Water

Date of sample collected : 29/05/2015 Openwell Water I – West Side (Outside)

Date of analysis started : 29/05/2015
Date of completion of analysis : 02/06/2015

Parameters tested	Test method	Result	Desirable Limit
Color	IS 3025 (P) 04 - 1983	7 Hazen Unit	As Per IS 10500
Odour	IS 3025 (P) 05 – 1983		5 Hazen Unit
Turbidity	IS 2025 (P) 10 1001	Unobjectionable	Unobjectionable
pH	IS 3025 (P) 10 – 1984	5 NTU	5 NTU
Total Dissolved Solids	IS 3025 (P) 11 – 1983	6.49	6.5 - 8.5
	IS 3025 (P) 15 - 1984	51 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983	23.76 mg/l	300 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986	24 mg/l	
Residual Chlorine	IS 3025 (P) 26 - 1986	BDL	200 mg/l
Chloride as Cl	IS 3025 (P) 32 – 1988		Min 0.2 mg/l
Calcium as Ca	IS 3025 (P) 40 1001	9.85 mg/l	250 mg/l
Magnesium as Mg	IS 3025 (P) 40 – 1991	7.14 mg/l	75 mg/l
ron as Fe	IS 3025 (P) 46 – 1994	1.44 mg/l	30 mg/l
	IS 3025 (P) 53 - 2003	0.51 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 31 - 1988	BDL	200 mg/l
Fluoride as F	IS 3025 (P) 60 - 2008	BDL	1.0 mg/l

Note: BDL - Below Detection Level

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Page 02 of 02

Continuation of Test Certificate No:_

3370/2015

APHA 3111B APHA 3111B APHA 3111B	BDL BDL BDL	as per IS-10500 0.01 mg/l 0.05 mg/l 0.05 mg/l
APHA 3111B	BDL BDL	0.05 mg/l
APHA 3111B	BDL	
		0.05 mg/l
APHA 3111B	Marie Control Control	0
	BDL	0.1 mg/l
APHA 3111B	BDL	0.01 mg/l
APHA 3111B	BDI	
APHA 3111B	CONTRACT.	0.05 mg/l
		5 mg/l
	BDL	0.001 mg/l
APHA 4500 E	BDL	0.05 mg/l
APHA 3111 B	BDL	0.05 mg/l
APHA3500 D	111	
CAST ASSOCIATION OF THE COLUMN TO SERVICE ASSOCI		0.03 mg/l
	APHA 3111B APHA 3111B APHA 3111B APHA 4500 E	APHA 3111B BDL APHA 3111B BDL APHA 3111B BDL APHA 4500 E BDL APHA 3111 B BDL APHA 3111 B BDL APHA 3500 D BDL

Note: BDL - Below Detection Level

MICROBIOLOGICAL TESTS:

Parameters	Unit	Results	Desirable Limits
MPN Coliform Count	MPN/100ml	50	
Coliform bacteria	/100ml	50	1.0
E coli	CONTRICTOR IN	Present	Absent
2 0011	/100ml	Absent	Absent

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TEST REPORT

Ref.No. PL/RT/BW/3373/2015

Date of Issue: 03/06/2015

Page 01 of 02

Name & address of customer

: Mr.Dineshmon N.T

Rudra Granites, Kundukad (P.O),

Project Site

Karuvankad, Thrissur. : M/s. Rudra Granites,

Kundukad (PO), Karuvankad, Thrissur

Survey Nos: 1244/1P Village- Killannoor

Panchayath- Mulakunnathukavu

Taluk- Thrissur District - Thrissur

Sample description

: Drinking Water

Location of sampling Date of sample collected

: Pond Water - North Side (Santhivanam Estate) : 28/05/2015

Date of sample collected
Date of analysis started

: 29/05/2015

Date of analysis started Date of completion of analysis

: 02/06/2015

Parameters tested	Test method	Result	Desirable Limit
Color	IS 3025 (P) 04 - 1983	5 Hazen Unit	As Per IS 10500
Odour	IS 3025 (P) 05 - 1983	Unobjectionable	5 Hazen Unit
Turbidity	IS 3025 (P) 10 - 1984	3 NTU	Unobjectionable
pH	IS 3025 (P) 11 – 1983	7.11	5 NTU
Total Dissolved Solids	IS 3025 (P) 15 – 1984		6.5 - 8.5
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983	51 mg/l	500 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986	9.90 mg/l	300 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986	22 mg/l	200 mg/l
Chloride as Cl	IS 3025 (P) 32 – 1988	BDL	Min 0.2 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991	16.75 mg/l	250 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994	3.17 mg/l	75 mg/l
Iron as Fe	IS 3025 (P) 53 – 2003	<1 mg/l	30 mg/l
Sulphate as SO ₄		0.37 mg/l	0.3 mg/l
Fluoride as F	IS 3025 (P) 31 – 1988	BDL	200 mg/l
	IS 3025 (P) 60 - 2008	BDL	1.0 mg/l

Note: BDL - Below Detection Level

For Poluchem Laboratories (P) Ltd.

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Page 02 of 02

Continuation of Test Certificate No: 3373/2015

Parameters tested	Test method	Results	Desirable Limits as per IS-10500
Selenium as Se	APHA 3111B	BDL	0.01 mg/l
Arsenic as As	APHA 3111B	BDL	0.05 mg/l
Copper as Cu	APHA 3111B	BDL	0.05 mg/l
Manganese as Mn	APHA 3111B	BDL	0.1 mg/l
Cadmium as Cd	APHA 3111B	BDL	0.01 mg/l
Chromium as Cr	APHA 3111B	BDL	-
Zinc as Zn	APHA 3111B	BDL	0.05 mg/l
Mercury as Hg	APHA 3111B	BDL	5 mg/l
Cyanide as CN	APHA 4500 E	BDL	0.001 mg/l
Lead as Pb	APHA 3111 B	Unit Control	0.05 mg/l
Aluminum as Al	P. STATE CO. III. STA	BDL	0.05 mg/l
	APHA3500 D	BDL	0.03 mg/l
Boron as B	APHA 4500 B	BDL	l mg/l

Note: BDL - Below Detection Level

MICROBIOLOGICAL TESTS:

Parameters	Unit	Results	Desirable Limits
MPN Coliform Count	MPN/100ml	23	1.0
Coliform bacteria	/100ml	Present	1.0
E coli	(100-1		Absent
2.4011	/100ml	Absent	Absent

For Poluchem Laboratories (P) Ltd.

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