

HALF YEARLY COMPLIANCE REPORT FOR GRANITE STONE QUARRY

File No. 1618/EC2/2019/SEIAA Dated 24/1/2023

Building Stone Quarry Project of Sri. A.M. Chackochan

Situated At

**Re-Sy. No. 272/3, 272/4 & 272/5
at Elamadu Village,
Kottarakkara Taluk,
Kollam District., Kerala**

April 2023 – September 2023

Prepared By

PRIME TECHNOLOGY SERVICES

Planet Resources Management Experts

**4D Kalpaka Fort Palace, Changampuzha Park,
Edappaly, Cochin-24**

Mail: primetechnologyservices@yahoo.com

Ph: 8089085335

To,

The Director MoEF&CC,
Regional Office (South Zone), KendriyaSadan,
IVth floor, E&F Wing ,17th main Road,
Second Block,Koramangala Banglore .

Respected Sir,

Sub: Half Yearly Compliance Report of Granite Stone Mine Project- April 2023-
September 2023

Ref: File No. 1618/EC2/2019/SEIAA Dated 24/1/2023

With reference to the above we are submitting Half Yearly Compliance report for the EC order, mentioned above. Also enclosed here, copy of consent to Establish from Kerala SPCB, and Compliance Monitoring report of the last season.

Place: Kollam

Date: 30/12/2023

(Authorized Signatory)

Copy to,

Member secretary / Chairman

SEIAA Kerala

KSRTC Complex, Thampanoor

Thiruvananthapuram, Kerala

INDEX

Sl.No	Particulars
1	Introduction
2	Specific Conditions
3	General Conditions
4	Annexures

LIST OF ANNEXURES

Annexure No	Specifications
1	Environmental Clearance
2	Consent from KSPCB
3	Explosive License
4	Panchayat License
5	Quarry Permit
6	Environmental Monitoring Results

1.INTRODUCTION

The Building Stone Quarry Project situated at Re-Sy. No. 272/3, 272/4 & 272/5 of Elamadu Village, Kottarakkara Taluk, Kollam District., Kerala in respect of Mr. Chackochan Managing Partner, Aishwarya Granites.

Building Stone Quarry project of Sri. A.M. Chackochan was obtained with the Environmental Clearance (1618/EC2/2019/SEIAA) by State Environmental Impact Assessment Authority on 24/1/2023. As part of general condition No.48 of Environmental Clearance order and EIA Notification the half yearly compliance report needs to be submitted by the project proponent.

This report contains the compliance of conditions of Environmental Clearance for the period of April 2023 –September 2023.

COMPLIANCE TO THE CONDITION STIPULATED IN THE ENVIRONMENTAL CLEARANCE ISSUED BY STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA.

2. SPECIFIC CONDITIONS

Table 2. SPECIFIC CONDITIONS

Sl.No	Specific Conditions	Compliance Status
1.	The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Mineral Concession Rules 2015 and amendments thereby	We assure that all the quarrying activities will be carried out as per the Approved Mining Plan and strictly follows all the Kerala Minor Concession Rules 2015 and amendments thereby
2.	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the Lease order should be provided to the SEIAA before commencing the mining activity	Noted. We will extent all possible cooperation to the officers from SEIAA and will produce all data/information/reports when they are asking for
3.	Development of green belt should be initiated prior to the commencement of mining operation.	Noted
4.	Compensatory afforestation should be initiated prior to the commencement of mining and the coordinates and geo-tagged photographs of the site should be incorporated in the HYCR.	Noted
5	Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.	We constructed Garland drains with silt traps were suitably constructed all along the periphery of the pit area. Garland Drains collect the run-off from the lease area and divert into the desiltation tanks proposed within the complex. The surface runoff from the benches will runs into desiltation tank through the garland channel and then passes through the check dam into the natural drainage.

6	Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the compliance report.	Noted
7	Gabion wall of should be provided at the overburden dumping site.	We constructed Gabion wall provided at the overburden dumping site.
8	There will be five working quarries within 500 m radius. So schedule must be prepared for blasting and transportation of materials from these quarries to avoid simultaneous blasting and traffic congestion. Copy of the schedule must be made available to SEIAA, District Officer, Mining & Geology, local policestation and Grama Panchayat.	Blasting done in a controlled manner as specified by the regulations of Explosives. Department or any other concerned agency. Obtained Explosive license and following the guidelines stipulated, and we also created a timing period for blasting within the adjacent quarry. To reduce the overlapping of drivers we have scheduled timing with the adjacent quarry and also we have provided different routes to avoid traffic congestion
9	CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.	Noted
10	Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).	Transportation of the mine during peak hour are reduced.
11	The haulage road should be developed prior to the commencement of mining and it should be maintained well with frequent sprinkling.	The haulage road is continuously maintained well with frequent sprinkling.
12	Adequate sanitation, waste management and rest room facilities should be provided to the workers.	This facilities are provided to the workers.
13	Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office	Implemented solar power stations for street lights and office to conservation for adequate energy.

14	The Environment Management Cell (EMC) should include an Environment expert the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR	Noted
15	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	Noted
16	As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with Local Self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall EC Identification No. – EC22B001KL198415 File No. – 1545/EC2/2019/SEIAA Date of Issue EC – 23/07/2022 Page 4 of 14 be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.	The CER and EMP will be complied as per the proposal submitted to SEIAA and same will be available with panjayath
17	In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers	We are using NONEL Blasting Technology has been adopted to reduce the Vibration on ground as per the recommendation from DMG and SEIAA

	landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.	
18	As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16 th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.	Noted for compliance and we will scrupulously follow the directions contained. The working of the quarry is just beginning. The reclamation will be started gradually and the benches will be reclaimed with planation, flora, fauna etc.
19	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.	We assure that all the quarrying activities will be carried out as per the EC conditions

3.GENERAL CONDITIONS

Table 3.GENERAL CONDITIONS

Sl. No	General Conditions	Compliance Status
1	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed	An assurance in the form of affidavit stating that all the conditions stipulated in the EC will be scrupulously followed and was submitted to SEIAA Kerala
2	All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.	<input type="checkbox"/> Consent from Kerala Pollution Control Board <input type="checkbox"/> Environment Clearance from SEIAA <input type="checkbox"/> Quarrying Permit from Department of Mining and Geology, Ernakulam <input type="checkbox"/> NOC from Explosive Dept. <input type="checkbox"/> D&O License from the LSGD
3	The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in . The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation	The project was advertised in widely circulated local newspapers in that region Annexure 10
4	The proponent shall send a copy of the EC 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 Environmental Clearance shall also be uploaded on	Complied
5	The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times	To demarcate the lease area and to prevent falling of animals/ human being / dumping of garbage etc, we installed barbed metal wire fencing around the lease area.

6	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 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.	A display board shows all the details about the project and EC provided at the entrance of the quarry site
7	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided	Magazine keep at an isolated area located at more than 50 m from the mining area. Mats were adopted to reduce fly rock blasts when quarrying operations started
8	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	As per the stipulation of Explosive department, we installed siren as warning alarm in the quarry site. Siren rang before the blasting time in order to give warning to the workers and public. The blasting timings are displayed in the prominent area by way of caution board
9	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	We provided black topping in access roads to the quarry site to reduce dust emissions during transportation of materials. The transportation of minerals done in covered trucks to contain dust emissions. We followed the same as per the directions contained
10	A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report	To monitor all conditions stipulated in the Environment Clearance and Environment Management Plan, we constituted an Environment Monitoring Cell including the members as per the directions of SEIAA. The EMC conducted atleast once in six months and review the activities and Environment Management Cell minutes included in the compliance report
11	Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby	We assure that all the quarrying activities will be carried out as per the Approved Mining Plan and strictly follows all the Kerala Minor Mineral Concession Rules 2015 and amendments thereby

12	The quarrying operation shall be restricted between 7AM and 5PM	The working time of the quarry as per the rules and regulations
13	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	We have constructed rain water harvesting pond of in the project area to collect rain water and utilize in the project area itself for dust suppression and green belt development. We installed solar street lights in the respective quarry site
14	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.	We assure that, the maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining shall not be deeper than the local ground water table. No mining operations shall not be carried out at places having a slope greater than 45°
15	The height of any bench shall not exceed five meters and breadth shall not be less than the height.	The quarrying activities will be progressing only by creating benches of 5m width and 5m height. The formation of benches is under the direction and supervision of competent person
16	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken	We assure that, we will ensure that no perennial or intermittent natural water course or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken
17	A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.	We maintained a minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling units and other structures and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendation of SEAC depending on specific local conditions
18	The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and	The native trees within the buffer zone maintained undisturbed and about 200-250no's of trees like Mango, Anjili, Bamboo, Jackfruit tree were planted. Green belt of 7.5m width (0.2987ha) raised by planting native species and for more soil stability more deep routed trees, shrubs will be planted to protect the soil slope. Phase wise development in the areas of plantation

	<p>maintenance of planted seedlings shall be ensured by the project proponent.</p>	<p>including rate of growth, survival rate etc., will be recorded systematically and also proper caring of plantations shall be ensured during the non-monsoon (summer) seasons.</p> <p>We assure that, as a compensation of loss of trees in the core area we will be planting 5times of the loss of trees that has occurred and follow planting measures suggested by SEAC. We will be Properly upkeep and maintain planted seedlings.</p> <p>The compliance of the same will be incorporated in Half Yearly Compliance Report</p>
19	<p>The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.</p>	<p>The native trees within the buffer zone maintained undisturbed and about 200-250no's of trees like Mango, Anjili, Bamboo, Jackfruit tree were planted. Green belt of 7.5m width (0.2987ha) raised by planting native species and for more soil stability more deep routed trees, shrubs will be planted to protect the soil slope. Phase wise development in the areas of plantation including rate of growth, survival rate etc., will be recorded systematically and also proper caring of plantations shall be ensured during the non-monsoon (summer) seasons.</p> <p>We assure that, as a compensation of loss of trees in the core area we will be planting 5times of the loss of trees that has occurred and follow planting measures suggested by SEAC. We will be Properly upkeep and maintain planted seedlings.</p> <p>The compliance of the same will be incorporated in Half Yearly Compliance Report</p>
20	<p>Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions</p>	<p>At the end of life of the quarry, 0.6856 ha of area under quarry pit and 0.6248Ha will be reclaimed by quarry waste which is generated at the time of mining operation. In addition to this, 0.2987Ha will be used for plantation of various kinds of trees and plants, which will help to make an eco-friendly nature. Remaining 0.0608Ha of land will be used to make a water pond which will be used for watering plants. The eco-restoration including the mine closure plan will be done at own cost of the Project Proponent. This eco restoration will follow scientific</p>

		standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystem. The topsoil excavated from the quarry subsequently will be utilized in spreading over reclamation areas for plantation. Over burden will be utilized for reclamation of mined pit as per mine closure plan/specific conditions
21	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	At the time of closure of the mine, it shall ensure that directions contained are scrupulously followed. At the end of life of the quarry, 0.6856 ha of area under quarry pit and 0.6248Ha will be reclaimed by quarry waste which is generated at the time of mining operation. In addition to this, 0.2987Ha will be used for plantation of various kinds of trees and plants, which will help to make an eco-friendly nature. Remaining 0.0608Ha of land will be used to make a water pond which will be used for watering plants
22	Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	Limited the operation of quarry in specific time only as directed by the KSPCB and has been following the directions and complying them. The following control measures are undertaken to bring down the noise levels: - <ul style="list-style-type: none"> • Proper maintenance of machinery equipment's and improvement of design of machines. • Personal protective Devices i.e, earmuffs, helmet, and boots etc. are provided to workers. • The mining activities is only during Day time. Noise level at the quarry site should be checked periodically, monitored through a NABL accredited laboratory during the quarry in operation and the monitored results are attached

23	Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.	Noted for Compliance and Scrupulously follows the directions contained
24	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	We assure that we will be maintained the speed of our trucks limited as per the prescribed standards to prevent undue noise from empty trucks
25	Acoustic enclosures should be 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 standard limit indicated by CPCB/KSPCB.	We will be provided Acoustic enclosures 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
26	Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.	Blasting done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency. Obtained Explosive license and following the guideline stipulated.
27	Measures should be taken for maintaining noise levels below 85 dBA in the work environment	We take appropriate steps to reduce the sound by employing possible measures. Measurements of noise levels are taken in the work environment. Noise Monitoring Lab results are attached
28	Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project	Scrupulously follows the directions contained
29	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.	The report of water quality will be given to the SEIAA in every six months
30	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps, to prevent run off of 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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.	Garland drains with silt traps were suitably constructed all along the periphery of the pit area, to collect the run-off from the quarry area and divert into the storm water pond/tanks proposed within the complex. <ul style="list-style-type: none"> • Appropriate channelization of storm water with channels of sufficient width. • All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. • De-siltation traps and storm water collection ponds are constructed for silt

		<p>removal.</p> <ul style="list-style-type: none"> • The storm water collected from the quarry area will be utilized for dust suppression on haul roads, plantation within the premises, etc. • Construction of check dams and collecting channel all around at the foot of the hill to prevent soil erosion during the monsoon season and also to collect the storm water for various use within the quarry area. • Blast residues from explosives will be managed by ensuring that all material is ignited during the blasting process.
31	<p>Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p>	<p>We assure that, we will be carried out regular monitoring of ground water level and its quality around the mine area during mining operation. The report of water quality will be given to the SEIAA in every six months.</p>
32	<p>Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB</p>	<p>We are very conscious to prevent all quarry waste to enter in the public drainage or stream.</p> <p>Garland drains with silt traps were suitably constructed all along the periphery of the pit area, to collect the run-off from the quarry area and divert into the storm water pond/tanks proposed within the complex.</p> <ul style="list-style-type: none"> • Appropriate channelization of storm water with channels of sufficient width. • All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. • De-siltation traps and storm water collection pond were constructed for silt removal. • The storm water collected from the quarry area will be utilized for dust suppression on haul roads, plantation within the premises, etc.

		<ul style="list-style-type: none"> • Construction of check dams and collecting channel all around at the foot of the hill to prevent soil erosion during the monsoon season and also to collect the storm water for various use within the quarry area. • Blast residues from explosives will be managed by ensuring that all material is ignited during the blasting process.
33	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 as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.	The company shall abide by the directions of SEIAA Kerala. The project is progressing as per the plan submitted in approved mining plan and as per Environmental Management Plan. The project will seek for a new Environmental clearance in the case of any changes in the scope of the project.
34	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.	We will complied with the stipulations by statutory authorities under different acts and notifications including the provision of Water (Prevention and Control of Pollution) Act1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment Protection Act ,1986, The Public Liability(Insurance)Act ,1991 and EIA Notification,2006
35	The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.	The temporarily stored topsoil used only for land reclamation and plantation. It is ensured that the dump site where over burdens are stored should maintained at 45°of slope. To prevent the soil erosion, the top soil and overburden are stacked in designated place within the project site. Topsoil will be used for plantation. Overburden will be used for landfill and to construct haulage roads in the mining area. The excess will be stored in a designated place as per the direction
	All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution.	We assure that, mining equipments used in mining like backhoe loaders and excavators will be serviced regularly and maintained for their efficient functioning

36	Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.	and for reducing pollution. Spent Oil disposed through the authorized recyclers
37	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.	The vehicles used within mines have PUC certificate. As part of reduce air pollution, we will monitored the pollution level of all vehicles playing in the project site at regular intervals. This monitoring conducts only in authorized pollution testing center
38	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Effective safeguard measures were adopted in critical areas that are prone to air pollution. Also we placed water sprinklers in critical area to reduce the dust emission. Ambient Air Quality monitoring done according to the norms of CPCB is followed in loading – unloading points and transfer points.
39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.	Water spraying arrangement on haul roads, loading and unloading and at transfer points provided and properly maintained
40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure	Noted for compliance and we will scrupulously follows the directions contained. The respective project site started working for CER from May 2023 onwards. So, we assure that, the activities proposed for CER will be implemented in a time bound manner and implementation of the same along with documentary proof provided along with Half Yearly Compliance Report.
41	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying/Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.	Scrupulously follows all the directions contained. The workers on the site provided with on-site accommodation or facilities at a suitable boarding place, protective equipment's such as ear muffs, helmets etc and implementing all the provisions of labor laws applicable from time to time quarrying /mining operation
42	The proponent has to provide insurance protection to the worker's in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.	Scrupulously follows all the directions contained

43	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports	A healthy surveillance program of the workers will be undertaken periodically after the quarrying work started and report of health surveillance programmes will be included in half yearly compliance report
44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.	Scrupulously follows all the directions contained
45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.	The land is private owned land
46	Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure , will lead to suspension of all EC obtained for mining by the Proponent	Noted
47	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms	Noted
48	The proponent shall submit Half Yearly Compliance Reports (1 st of June & 1 st of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31 st March every year.	The compliance report is being submitted along with the results of monitored data to the State Environmental Impact Assessment Authority, Kerala and the Regional Office of MoEF&CC, Bangalore both in hard copy as well as mail
49	The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports	We will extent all possible cooperation to the officers form regional office of MoEF & CC and can produce all data/information/reports when they are asking for.

50	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	We will give priority to the conditions stipulated in the Environment Clearance Order for execution.
51	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	The company shall abide by the directions of SEIAA Kerala
52	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	Noted
53	The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law	Noted
54	Any appeal against this 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.	There is no appeal against EC
55	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Such a situation never come across. The Condition is noted for compliance
56	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	We are willing to implement the conditions stipulated in the Environment Clearance order. The project can execute all possible measures in the project site for the conservation of environment. The conditions of SEIAA are strictly followed
57	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height	Scrupulously follows all the directions contained

4.ENVIRONMENTAL MONITORING CELL

Table 4. Environmental Monitoring

Sl No	Name	Designation	
1	M. Chackochan	Head of the cell	Frame policies monitoring the activities
2	Jaise	Manager	Co-ordinate environmental Activities and monitoring of compliances
3	M/s Prime Technology Services	Environmental Consultant	Provide technical guidance for sound environmental friendly business
4	M/S Standard ^s (MoEF recognized Lab)	Environmental Monitoring Agency	Monitor Ambient Air, Noise, water and soil periodically

ANNEXURE 1
ENVIORNMENTAL CLEARENCE

ENVIRONMENTAL
CLEARANCE



**Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Kerala)**

To,

The Managing Partner
GRANITE BUILDING STONE QUARRY OF AISHWARYA GRANITES
Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam, Kerala. -691533

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/MIN/132154/2019 dated 27 May 2020. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|---|
| 1. EC Identification No. | EC23B001KL138943 |
| 2. File No. | 1618/EC2/2019/SEIAA |
| 3. Project Type | New |
| 4. Category | B2 |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | Granite Building Stone Quarry of Aishwarya Granites |
| 7. Name of Company/Organization | GRANITE BUILDING STONE QUARRY OF AISHWARYA GRANITES |
| 8. Location of Project | Kerala |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 24/01/2023

(e-signed)
Dr. Venu V IAS
Member Secretary
SEIAA - (Kerala)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

This is a computer generated cover page.





**PROCEEDINGS OF THE
STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT
AUTHORITY – KERALA, THIRUVANANTHAPURAM**

*(Present : Dr.H.Nagesh Prabhu IFS (Retd), Chairman, Shri.K.Krishna Panicker,
Member, Dr.V.Venu IAS, Member Secretary)*

**Sub: SEIAA - Environmental Clearance for the Granite Building Stone Quarry
of Sri. A. M. Chackochan, Managing Partner, Aishwarya Granites of
Elamadu Village, Kottarakara Taluk, Kollam, Kerala. - Granted – Orders
issued.**

State Level Environment Impact Assessment Authority, Kerala

Proposal No. SIA/KL/MIN/132154/2019

File No. 1618/EC2/2019/SEIAA

- Ref:** 1. Application from Sri. A M Chackochan received on 18.12.2019
2. Minutes of the 133rd SEAC meeting held on 11th to 13th October, 2022.
3. Minutes of the 120th SEIAA meeting held on 25th & 26th November 2022.
4. G.O(Rt.) No.29/2019/Envt dt.12.04.2019.

ENVIRONMENTAL CLEARANCE NO. 10/Q/2023

Sri. A. M. Chackochan, Managing Partner, Aishwarya Granites, Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam submitted an application for Environmental Clearance via PARIVESH on 18.12.2019 for the Granite Building Stone Quarry for an area of 0.7969 Ha in Re Survey Nos. 272/3, 272/4 & 272/5 of Elamadu Village, Kottarakara Taluk, Kollam, Kerala. The project details are as follows:

SL.No.	Particulars	Details
1	Name of the Project	Granite Building Stone Quarry of Sri. A M Chackochan
2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Non Coal mining, Activity 1(a), Category B2
4	Name & Address of the Project Proponent	Sri. A. M. Chackochan, Managing Partner, Aishwarya Granites, Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam – 691 533
5	Project Location	
	a) Re Survey Nos:	272/3, 272/4 & 272/5
	b) Village	Elamadu
	c) Taluk	Kottarakara
	d) District	Kollam
6	Geo Co-ordinates	Latitude 08 ⁰ 52'29.08" N to 08 ⁰ 52'27.69" N Longitude 76 ⁰ 49'54.04" E to 76 ⁰ 49'55.06" E
7	Extent (in Hectare)	0.7969
8	Project Cost	35 Lakh
9	Mineable Reserve	144240 MT
10	Annual Production	36,000 MTA
11	Water a) Requirement b) Source	6 KLD. Bore Well & Abandoned pits.
12	Power a) Requirement b) Source	75 kW KSEB.
13	Date of Field Inspection	06.09.2022

CER Details

Area of Intervention	Expenses
Fund for installing Solar Street Light inclusive of maintenance and operation in Paramukku colony (Ward No. 12, elamadu Panchayath)	2,80,000
Total	2,80,000

2. In the 133rd SEAC meeting, the Committee verified the documents submitted by the project proponent and found them satisfactory. The Committee discussed the field inspection report and recommended EC for the project life of 4 years with certain Specific Conditions in addition to the General Conditions.

3. In the 120th SEIAA meeting, the Authority decided to issue Environmental Clearance for the project life of 4 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and its amendments thereby.
2. The EC shall be valid from the date of execution of the permit/lease from the Department of Mining and Geology. A copy of the lease order should be provided to the SEIAA before commencing the mining activity.
3. Development of green belt should be initiated prior to the commencement of mining operation.
4. Compensatory afforestation should be initiated prior to the commencement of mining and the coordinates and geo-tagged photographs of the site should be incorporated in the HYCR.
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the compliance report.

7. Gabion wall of should be provided at the overburden dumping site.
8. **There will be five working quarries within 500 m radius. Hence a time schedule must be prepared by the project proponent for blasting and transportation of materials from these quarries, to avoid simultaneous blasting and traffic congestion. Copy of the time schedule must be made available to SEIAA, District Officer, Mining & Geology, local Police Station and Grama Panchayat.**
9. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. The haulage road should be developed prior to the commencement of mining and it should be maintained well with frequent sprinkling.
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office.
14. The Environment Management Cell (EMC) should include an Environment expert the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.
15. **Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.**
16. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the CER from the 1st year of the project itself as part of EMP as appraised by SEAC. The follow up action on implementation of CER/EMP shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support.
17. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which

is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.

18. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
19. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

4. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry for an area of 0.7969 Ha. in Re Survey Nos. 272/3, 272/4 & 272/5 in Elamad Village, Kottarakara Taluk, Kollam District, Kerala of Sri. A. M. Chackochan, Managing Partner, Aishwarya Granites, Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam, for the period of Four (4) years, for the quantity mentioned in the approved Mining Plan, from the date of execution of valid permit/ lease from the Mining & Geology Department as per S.O.1807 (E) dated.12.04.2022 of MoEF&CC, subject to the Specific Conditions in Para 3 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan submitted to SEIAA. The assurances and clarifications given by the Project Proponent will be deemed to be a part of this Proceeding as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.

5. The Environmental Clearance issued will also be subject to full and effective implementation of all the undertakings given in the Application Form, mitigation measures as assured in the Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application. The above undertakings and the conditions and the undertakings in (Mining), (Blasting), (Mines Drainage), (Stacking of Mineral rejects and Disposal of waste), (Environment Management Plan) & (Progressive

Mine Closure Plan) of the Mining Plan as submitted will be deemed to be part of this Proceedings as conditions as undertaken by the Project Proponent, as if incorporated herein.

6. Validity of the Environmental Clearance will be for a period of **Four (4) years** from the date of execution of valid mine lease/permit from Mining & Geology Department as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

7. Compliance with the conditions herein will be monitored by the State Environment Impact Assessment Authority or its authorised offices and also by the Regional Office of the Ministry of Environment, Forest & Climate Change, Govt. of India, Bangalore. Necessary assistance for entry and inspection should be provided by the Project Proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring. Instances of violation if any shall be reported to the **District Collector, Kollam**.

8. The Half Yearly Compliance Report (HYCRs) with its contents covering letter, compliance report and environmental monitoring data have to be uploaded in the PARIVESH portal as per the OM F No.IA3-22/1/2022-IA-III(E) – 17264 dated 14.06.2022 and the website of the Project Proponent. Hardcopy of HYCR shall not be acceptable.

9. The given address for correspondence with the authorised signatory of the project is Sri. A. M. Chackochan, Managing Partner, Aishwarya Granites, Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam – 691 533.

GENERAL CONDITIONS

1. The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
2. All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.

3. The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in. The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
4. The proponent shall send a copy of the EC 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 Environmental Clearance shall also be uploaded on the website of the company.
5. The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.
6. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font 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.
7. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.
8. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.
9. Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.
10. A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in

the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.

11. Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.
12. The quarrying operation (Blasting) shall be restricted between 7 AM and 5PM
13. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
14. Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.
15. The height of any bench shall not exceed five meters and breadth shall not be less than the height.
16. The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
17. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.
18. The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.
19. The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.

20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.
21. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
23. Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.
24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
25. Acoustic enclosures should be 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 standard limit indicated by CPCB/KSPCB.
26. Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.
27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.
28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.
29. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried

out and reported in the six monthly compliance reports to SEIAA.

30. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps, to prevent run off of 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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.
31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
32. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.
33. 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 as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.
34. 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.
35. The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45⁰. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall

be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.

36. All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area. .
38. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM₁₀ and PM_{2.5}. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.
39. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.
40. Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.
41. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
42. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
43. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective

measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.

44. The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco-friendly manner.
45. If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.
46. Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining by the Proponent.
47. In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.
48. The proponent shall submit Half Yearly Compliance Reports (1st of June & 1st of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31st March every year.
49. The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.
50. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
51. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory

manner.

52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.
53. The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.
54. Any appeal against this 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.
55. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
56. The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

**Sd/
Administrator, SEIAA
For Member Secretary, SEIAA**

To,

A. M. Chackochan
Managing Partner
Aishwarya Granites
Arkkannoor P.O
Elavinmoodu
Ayoor, Kollam – 691 533.

Copy to,

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034.(through e-mail: rosz.bng-mefcc@gov.in)
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala
3. The Director, Directorate of Environment & Climate Change, 4thFloor KSRTC Bus Terminal, Thampanoor, Thiruvananthapuram, Kerala 695001.
4. The District Collector, Kollam.
5. The Director, Mining & Geology, Thiruvananthapuram -4.
6. The Member Secretary, Kerala State Pollution Control Board
7. The District Geologist, Kollam.
8. The Tahsildhar, Kottarakara Taluk, Kollam District
9. The Secretary, Elamadu Panchayath, Kollam District.
10. The Chairman, SEIAA.
11. Website.
- 12.S/f
- 13.O/c

Signature valid

Digitally signed by  Venu V IAS
Member Secretary
Date: 1/24/2023 11:06:21 AM

ANNEXURE 2
CONSENT FROM KSPCB

FILE NO : KSPCB/KL/ICO/10020596/2023

Date of issue : 16-02-2023



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. : 10020596

Dated : 27-01-2023

To

AISWARYA GRANITES (QUARRY)

ELAVINMOODU, ARKKANNOOR P.O, ELAMAD, KOLLAM-691533

Consent No. : KSPCB/KL/ICO/10020596/2023

Valid Upto : 23-01-2027

1. 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	23-01-2027
2	Name and Address of the establishment	AISWARYA GRANITES (QUARRY) ELAVINMOODU, ARKKANNOOR P.O, ELAMAD, KOLLAM-691533 E-Mail : aiswaryagranites@gmail.com Contact Number : 9744591345
3	Occupier Details	A.M.CHACKOCHAN . MANAGING PARTNER, AISWARYA GRANITES, ARKKANNOOR P.O, ELAVINMOODU, AYOOR, KOLLAM-691533 E-Mail : aiswaryagranites@gmail.com Contact Number :
4	Local Body	ELAMADU GRAMA PANCHAYATH
5	Survey Number	272/3, 272/4, 272/5 (GOVT. LAND NOC)
6	Village	Elamad
7	Taluk	Kottarakkara
8	District	KOLLAM
9	Capital Investment(Rs in Lakhs)	35.0
10	Scale	Small
11	Category	RED
12	Annual fee(Rs)	7700.0
	Total Fee remitted(Rs)	50050.0
13	Activity	QUARRY UNIT (0.7969 HECTARES OF LAND) - 144240 Metric Tonnes/Day
14	Machinery details	-

2. CONDITIONS AS PER

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

2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the proposal submitted along with the application shall be made functional before commissioning. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.

2.2 Water Consumption :300 l/d

2.3 Effluent Generation : NA

2.4 Mode of disposal of treated effluent : NA

3. CONDITIONS AS PER

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

3.1 Adequate air pollution control measures shall be provided before commissioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

4. CONDITIONS AS PER

The Environment (Protection) Act, 1986

4.1 The construction activities shall be carried out strictly in compliance with the provisions of the Noise Pollution (Regulation and Control)Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.4 e-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.

SPECIFIC CONDITIONS

5.1. The consent is issued only with respect to the powers vested under the Water Act 1974, Air Act 1981 and Rules there under.

5.2 This Integrated Consent to Operate, unless withdrawn earlier and subject to condition no.5.1 shall be valid up to 23.01.2027. For continuing to operate beyond the validity date application for the renewal has to be submitted through online before 30.11.2026.

5.3 Any change in the particulars furnished in the application and/or in the identity of the occupier/authorized agent shall be intimated to the Board forthwith.

5.4 Boundary of the quarry shall be marked and fenced before the starting of quarrying operations.

5.5 The quarrying operation shall be limited to the area as per the approved mining plan. Any change or alteration to the above shall be made only with prior clearance of the concerned Authorities.

5.6 Quarrying operation shall be carried out only during day time.

5.7 The suspended particulate matter at the boundary of the premises shall not exceed the limits specified as per the National Ambient Air quality standards applicable to the adjoining area.

5.8 The sound level measured at 1 m outside the boundary of the premises shall not exceed limits prescribed as per the National Ambient Air quality standards applicable to the adjoining area, with respect to noise.

5.9 Dust suppression system such as water atomisers shall be installed around the quarrying area.

5.10 Necessary buffer layer shall be maintained inside the boundary and no quarrying activity shall be carried out in that area.

5.11 Wherever residences are likely to be affected with vibration, blasting with electric detonator (ED) shall be avoided and ordinary detonator (OD) or ED with delay facility shall be used.



5.12 Blasting shall be done only at specified times and this blasting schedule shall be displayed to public to avoid accidents.

5.13 The excavated area, if any, may be used for aquaculture and rainwater harvesting with protective barriers or for any other suitable purpose or may be reclaimed.

5.14 Efforts shall be made to avoid any sort of environmental problems due to the working of the quarry.

5.15 A distance of 50m shall be maintained from the quarrying area to nearby residences/other buildings/roads with public transport system/ river/ lake/ bridge.

5.16 This consent is issued based on the Letter of Intent no.2928/DOQ/S2/2018 dated 02.09.2019 of Mining & Geology Department and Environment clearance certificate No:10/Q/2023 dated 24.01.2023 and is valid only when all other statutory/ necessary clearances from the concerned Authorities are valid. The Quarrying shall be done only after obtaining clearances from all concerned Authorities.


Digitally signed by  RACHEL THOMAS
Date: 2023.02.16 00:46:48 IST

SIGNATURE OF ISSUING AUTHORITY

ENVIRONMENTAL ENGINEER

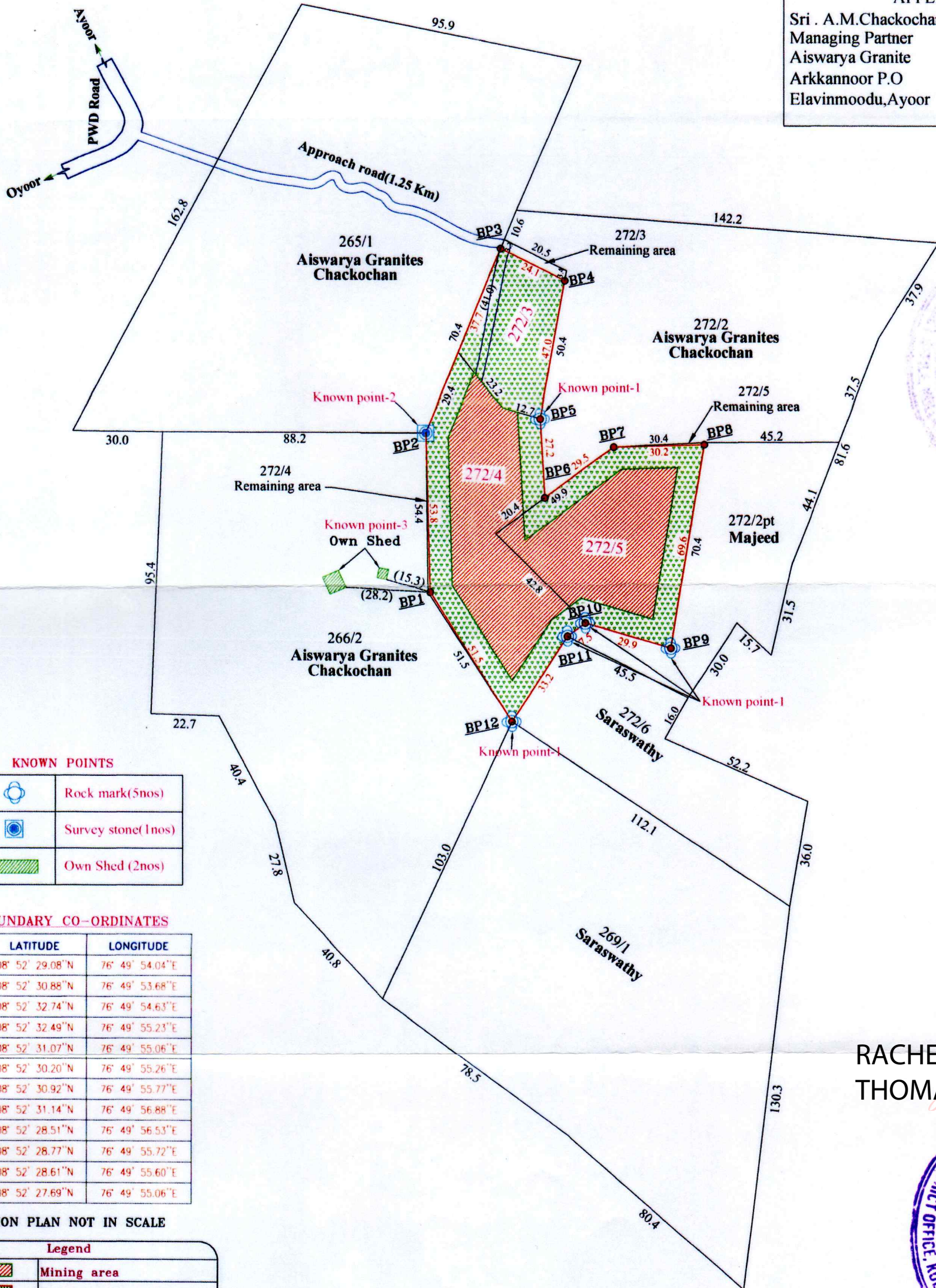
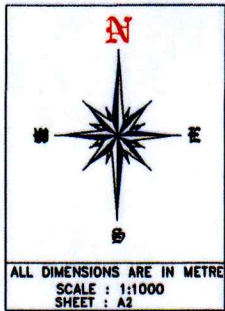
File No: 3948/19

SURVEY MAP

DISTRICT : KOLLAM
 TALUK : KOTTARAKKARA
 VILLAGE : ELAMAD
 BLOCK NO : 27
 Re-SY NO : 272/3,272/4,272/5
 Mining area : 0.3929 Ha
 Buffer zone(7.5 M) : 0.4040 Ha
 Applied total area: 0.7969 Ha

APPLICANT

Sri . A.M.Chackochan
 Managing Partner
 Aiswarya Granite
 Arkkannoor P.O
 Elavinmoodu,Ayoor



KNOWN POINTS

1		Rock mark(5nos)
2		Survey stone(1nos)
3		Own Shed (2nos)

BOUNDARY CO-ORDINATES

S.N.	LATITUDE	LONGITUDE
1	08° 52' 29.08"N	76° 49' 54.04"E
2	08° 52' 30.88"N	76° 49' 53.68"E
3	08° 52' 32.74"N	76° 49' 54.63"E
4	08° 52' 32.49"N	76° 49' 55.23"E
5	08° 52' 31.07"N	76° 49' 55.06"E
6	08° 52' 30.20"N	76° 49' 55.26"E
7	08° 52' 30.92"N	76° 49' 55.77"E
8	08° 52' 31.14"N	76° 49' 56.88"E
9	08° 52' 28.51"N	76° 49' 56.53"E
10	08° 52' 28.77"N	76° 49' 55.72"E
11	08° 52' 28.61"N	76° 49' 55.60"E
12	08° 52' 27.69"N	76° 49' 55.06"E

LOCATION PLAN NOT IN SCALE

Legend

	Mining area
	Buffer zone area(7.5M)
	Private Road
	Rock mark
	Survey stone
	Road
	Applied area pillar points (1-12)
	Shed

**SUBMITTED BEFORE DEPT.OF MINING & GEOLOGY/DEIAA/MOEF
 DETAILS OF THE PROPERTY**

SL.NO	RS NO	AREA OF LAND (Ha)					NAME OF OWNER
		IN POSSESSION	PROPOSED AREA(Ha)	TOTAL	MINING AREA	REMAINING AREA	
1	272/3	0.1431	0.1354	0.0000	0.1354	0.0077	GOVT.LAND
2	272/4	0.3660	0.1516	0.2110	0.3626	0.0034	GOVT.LAND
3	272/5	0.3000	0.1170	0.1819	0.2989	0.0011	GOVT.LAND
TOTAL		0.8091	0.4040	0.3929	0.7969	0.122	

RACHEL THOMAS Digitally signed by RACHEL THOMAS
 Date: 2023.02.16 00:45:03 +05'30'



VILLAGE OFFICE
 ELAMADI

ANNEXURE 3
EXPLOSIVE LICENSE



भारत सरकार | Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैएसओ) | Petroleum & Explosives Safety Organisation (PESAO)

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. कक्कनाड कोच्ची | CSEZ PO Kakkannad Dist. Ernakulam Ernakulam 682037

फोन (Phone) - 2427286 | फैक्स (Fax) - 2427276

संख्या (No.): E/SC/KL/22/1347(E62452)

दिनांक (Date) 13/02/2023

सेवा में | To,

Shri A.M. Chackochan,

Managing Partner, M/s Anwaraya Granites, Elamadu, Kottarakkara, Kollam-691533, Kollam District, Kerala, Town/Village - Elamadu
District-KOLLAM, State-Kerala, Pincode - 691533

विषय: Survey No.117/7-3 Block No.27., ग्राम Elamadu (v)Kottarakkara Tk, Kollam Dt. जिला KOLLAM, राज्य Kerala में गेसर्स Shri A.M. Chackochan द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1347(E62452) के संशोधन संदर्भ में।
(अरेखण / सुविधाएं / परिसर में परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.:117/7-3 Block No.27., Elamadu (v)Kottarakkara Tk, Kollam Dt, Dist. KOLLAM, Kerala -
Licence No.: E/SC/KL/22/1347(E62452) granted in Form LE-3 of Explosives Rules, 2008 -
(Amendment in Drawings/Facilities/Premises).

महोदय | Sir.

आपका उपर्युक्त विषय पर पत्र संख्या 78969 दिनांक 10/02/2023 का संदर्भ ग्रहण करें।
Please refer to your letter no. 78969 dated 10/02/2023.

अनुज्ञप्ति संख्या E/SC/KL/22/1347(E62452) INTIMATION REGARDING QUARRYING OPERATIONS AS PER ENVIRONMENT CLEARANCE NO 10/Q/2023 DATED 24/01/2023, FILE NO 1618/EC2/2019/SEIAA DATED 24/01/2023 AT SURVEY NOS. 272/3, 272/4 & 272/5 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA; 11/Q/2023 DATED 24/01/2023, FILE NO 1674/EC2/2020/SEIAA DATED 24/01/2023 AT SURVEY NOS. 268/1 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA AND 8/Q/2023 DATED 24/01/2023, FILE NO 1677/EC2/2020/SEIAA DATED 24/01/2023 AT SURVEY NOS. 244/2 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA IS ACKNOWLEDGED HEREWITH. QUARRYING SHALL BE STARTED USING EXPLOSIVES ONLY AFTER GRANT OF QUARRYING PERMIT FROM THE DIRECTOR OF MINING & GEOLOGY. PLEASE NOTE THAT THE USE OF EXPLOSIVES IN THE QUARRIES SHALL BE AS PER THE DIRECTION OF DGMS, AS REQUIRED UNDER MINES ACT 1952 AND METALIFEROUS MINES REGULATIONS 1961. के संदर्भ में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SC/KL/22/1347(E62452) is forwarded herewith duly amended in respect of followings ;

INTMATION REGARDING QUARRYING OPERATIONS AS PER ENVIRONMENT CLEARANCE NO 10/Q/2023 DATED 24/01/2023, FILE NO 1618/EC2/2019/SEIAA DATED 24/01/2023 AT SURVEY NOS. 272/3, 272/4 & 272/5 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA; 11/Q/2023 DATED 24/01/2023, FILE NO 1674/EC2/2020/SEIAA DATED 24/01/2023 AT SURVEY NOS. 268/1 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA AND 8/Q/2023 DATED 24/01/2023, FILE NO 1677/EC2/2020/SEIAA DATED 24/01/2023 AT SURVEY NOS. 244/2 OF ELAMADA VILLAGE KOTTARAKARA TALUK, KOLLAM DISTRICT-KERALA IS ACKNOWLEDGED HEREWITH. QUARRYING SHALL BE STARTED USING EXPLOSIVES ONLY AFTER GRANT OF QUARRYING PERMIT FROM THE DIRECTOR OF MINING & GEOLOGY. PLEASE NOTE THAT THE USE OF EXPLOSIVES IN THE QUARRIES SHALL BE AS PER THE DIRECTION OF DGMS, AS REQUIRED UNDER MINES ACT 1952 AND METALIFEROUS MINES REGULATIONS 1961..

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।

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

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	400	Kg.
2	Safety Fuse	6	1	0	5000	Mtrs
3	Detonating Fuse	6	2	0	5000	Mtrs
4	Electric Detonators	6	3	0	5000	Nos.
5	Ordinary Detonator	6	3	0	5000	Nos.

किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 15 गुना

Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 15 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2027 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2027.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।

For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully

(डा.एस.के.दीक्षित | Dr. S K Dixit)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

- District Magistrate, KOLLAM, Kerala with reference to his Noc No: D.Dis.41743/11 M7 Dated: 15/10/2011
- Superintendent of Police, KOLLAM, Kerala.

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>)

अनुज्ञापि प्ररूप एल. ई.-3 | LICENCE FORM I.E-3

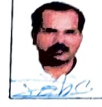
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

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

अनुज्ञापि सं. (Licence No.) : E/SC/KL/22/1347(E62452)
वार्षिक फीस रूपए (Annual Fee Rs): 3000/-

1. Licence is hereby granted to

Shri A.M. Chackochan (अधिभोगी / Occupier : A.M. Chackochan), Managing Partner, M/s Aiswarya Granites, Elamadu, Kottarakkara, Kollam-691533, Kollam Distict, Kerala, Town/Village - Elamadu, District-KOLLAM, State-Kerala, Pincode - 691533



को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रास्थिति | Status of licensee : Individual

3. अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमाम्य है।
Licence is valid only for the following purpose.

possess for use of Nitrate Mixture, Safety Fuse, Detonating Fuse, Electric Detonators, Ordinary Detonator, - के उपयोग के लिए

4. अनुज्ञापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमाम्य है।
Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2, 0	0	400 Kg.
2.	Safety Fuse	6, 1	0	5000 Mtrs
3.	Detonating Fuse	6, 2	0	5000 Mtrs
4.	Electric Detonators	6, 3	0	5000 Nos.
5.	Ordinary Detonator	6, 3	0	5000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापि के लिए]

15 times
as above.

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

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापि परिसर की पुष्टि होती है।

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1347(E62452)

The licensed premises shall conform to the following drawing(s) :

दिनांक (Dated) 13/02/2023

6. अनुज्ञापि परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:

Survey No. 1177-3 Block No.27, ग्राम (Town/Village) : Elamadu (Kottarakkara Tk, Kollam Dt
पुलिस थाना (Police Station) : Chadayamangalam

जिला (District)	KOLLAM	राज्य (State)	Kerala	पिनकोड (Pincode)	691533
दूरभाष (Phone)	04753209308	ई. मेल (E-Mail)	tinsonj@gmail.com	फैक्स (Fax)	

7. अनुज्ञापि परिसर में निम्नलिखित सुविधाएं अंतर्निहित हैं।

: MODE -A cement concrete magazine with two rooms.

The licensed premises consist of following facilities.

8. अनुज्ञापि समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों 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.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए।)

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि की शर्तों और अतिरिक्त शर्तों।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख 31 मार्च 2016 तक विधिमाम्य रहेगी। This licence shall remain valid till 31st day of March 2016.

यह अनुज्ञापि, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापि की शर्तों का अधिकमपन करने या यदि अनुज्ञापि परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिबंधित की जा सकती है, जहां वह लागू हो।

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.

तारीख | The Date - 19/12/2011

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment in Drawings/Facilities/Premises dated : 08/08/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/09/2022
- Amendment in Drawings/Facilities/Premises dated : 13/02/2023

नवीनीकरण के पृष्ठांकन के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
03/08/2022	31/03/2027	Sd/- Dy. Chief Controller of Explosives, Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडिक अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

Digitally signed by SUBODHKUMAR VIRENDRA KUMAR DIXIT
Reason: Licence No. : E/SC/KL/22/1347
Location: Ernakulam [E62452]
Date: 2023.02.13 03:25:55 +05:30

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 E/SC/KL/22/1347(E62452) in form LE-3 granted to Shri A.M. Chackochan, Managing Partner, M/s Aiswarya Granites, Elamadu, Kottarakkara, Kollam-691533, Kollam Distict, Kerala, Kerala-691533.

Type of Structure(s)	Safety distances meters	
Inside Safety Distances(ISD)		
1 Room or Workshop used in Connection with the Magazine	M	U/M
2 Any other Explosives Magazine or store House or Factory of the Applicant	19	29
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		48
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 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		
17 Factory		
18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances		95
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		90
28 Electric Power over head Transmission Lines upto 440V		15

The Date : 19/12/2011

For Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment in Drawings/Facilities/Premises dated : 08/08/2022
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 15/09/2022
- Amendment in Drawings/Facilities/Premises dated : 13/02/2023

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

मेगजीन में वर्ग 1, 2, 3, 4, 5, 6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एल ई. 3 | अनुच्छेद 3 (ख) से (ग) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञापि सं. E/SC/KL/22/1347(E62452) की शर्तों निम्नलिखित हैं।
The following are the conditions of licence number E/SC/KL/22/1347(E62452) to possess for sale or use, explosives of Class 1, 2, 3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

- परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामग्री से अधिक नहीं होगी।
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मेगजीन अनुसूची III और अनुज्ञापि के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence
- मेगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञापि में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबंध आग या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा, अन्यथा नहीं।
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तोलने तथा पैक करने का कार्य मेगजीन में नहीं किया जाएगा।
The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine
- दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मेगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मेगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु -
(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पत्ती और वर्ग 6 प्रभाग 2 के अंतर्गत आने वाले विस्फोटक प्रेरक पत्ती, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थापन के रखे जा सकते हैं।
(ङ) वर्ग 6 प्रभाग 3 के अंतर्गत आने वाले विस्फोटक प्रेरक अलग रखे जाएंगे।
(च) वर्ग 1 के अंतर्गत आने वाले बारूद को अलग रखा जाएगा।
Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other, Provided that—
(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;
(e) Detonators belonging to Class 6 Division 3 shall be kept separately.
(f) Gun powder belonging to Class 1 shall be kept separately.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मेगजीन में नहीं रखा जाएगा।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात मेगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो।
(i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्राप्त कर लिया जाए जिसमें दी गई मंजूरी के अंतर्गत आनेवाली अवधि दर्शाई की गई हो और ऐसे प्रमाणपत्र के अनुज्ञापिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लाइसरीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मेगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञापिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।
Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.
(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.
(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.
- मेगजीन के भीतरी भाग या उसमें लगी बेंचो, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचो, शेल्फें और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे। परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्यकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।
The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from; Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.
- यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिधारी द्वारा पश्चात्कर्त्त प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता :
परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभाय होगा :
परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मेगजीन से संबंध हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है।
If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory:
Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :
Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor.
- उपयुक्त तथा जब रहित कार्यकरण वस्त्रों, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो :
परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है।
Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fire. Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion: Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept.

11. अनुज्ञापिधारी प्ररूप आर इ-3 आर आर इ-4 या आर इ-5, जेसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधिन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टॉक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टॉक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी।
The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.
12. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करें।
No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf.
13. मैगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी)। यदि किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तुरंत देगा।
The licensee shall report to licensing authority forthwith, if the Magazine becomes unfit for storage of any explosives for any reason whatsoever.
Mैगजीन का अनुज्ञापिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा।
The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules.
14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी।
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी।
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चूटे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।
The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package.
तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओह्म से अधिक नहीं होगा।
The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms.
17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झांडी या ज्वलनशील सामग्री नहीं रहने दी जाएगी।
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतिशीघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारीयों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञापन परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः अनुपालन किया जा रहा है, अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी।
Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारक को अनुज्ञापन परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, अनुज्ञापिधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा।
If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the licence shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञापन फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पत्तीते खरीदेगा।
The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine.
25. निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए –
(क) जो फटने की जगह से चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;
(ख) श्रृंखला (जुड़े हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपयुक्त उल्लिखित सीमा 5 लॉग₁₀(एन) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;
The possession and sale of fire-crackers generating noise level exceeding;
a) 125 dB(AI) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited;
b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5 log₁₀ (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी।
Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

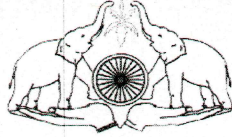
अतिरिक्त शर्तें / Additional Conditions :

1. अनुज्ञापिधारी विदेशी मूल के आतिशबाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Joint Chief Controller of Explosives
दक्षिणांचल, चेन्नै। South Circle, Chennai

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

ANNEXURE 4
PANCHAYAT LICENSE



ലൈസൻസ് നമ്പർ:എസ്.സി3-785/23 /(204/23-24)

തീയതി .17/03/2023

ഇളമാട് ഗ്രാമപഞ്ചായത്തിൽ നിന്നും
1994 - ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232, 233, 234, 254 എന്നീ
വകുപ്പുകളും തുടർ പട്ടങ്ങളും അനുസരിച്ച് നൽകുന്ന
എഫ് ടി ഇ & ഒ എസ് ലൈസൻസ്

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ശ്രീ.എ.എം.ചാക്കോച്ചൻ, മാനേജിംഗ് പാർട്ണർ ഐശ്വര്യ ഗ്രാനൈറ്റ്സ്, ഇലവിൻമുട്,അർക്കനൂർ.പി.ഒ ഫോൺ - 9744591345
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	ഐശ്വര്യ ഗ്രാനൈറ്റ്സ്,(ക്വാറി) കാരാളികോണം
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	സർവ്വേനമ്പർ 272/3,272/4,272/5,ൽ 0.7969 ഹെക്ടർ റവന്യൂ ഭൂമിയിൽ പാറഖനനം നടത്തുന്നതിന്
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡു നമ്പരും	സർവ്വേനമ്പർ 272/3,272/4,272/5,
ലൈസൻസ് കാലയളവ്	17/03/2023 മുതൽ 23/01/2027 വരെ
ഇടപാടുകാര്യ ലൈസൻസ് ഫീസ്	(15000+2500)/ രൂപ (17500 per year) Total-87500/- റസിറ്റ്നമ്പർ.1220603624.തീയതി.17/03/2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാപനം)	Nb1:- സ്ഥാപനത്തിന്റെ പ്രവർത്തനം സംബന്ധിച്ച് ക്ഷമതയുള്ള അധികാരികളിൽ നിന്നും വാങ്ങേണ്ട അനുമതികളും NOCകളും ലൈസൻസി യഥാസമയം സ്വന്തം ഉത്തരവാദിത്വത്തിൽ കരസ്ഥമാക്കേണ്ടതും ആയതിന് വീഴ്ചവരുത്തുന്നതിന്മേൽ ഉണ്ടായേക്കാവുന്ന സകലവിധ കഷ്ടനഷ്ടങ്ങൾക്കും ലൈസൻസി മാത്രം ഉത്തരവാദിയായിരിക്കുന്നതാണ്. (Nb2):- കോവിഡ് 19 പ്രതിരോധ നിർദ്ദേശങ്ങൾ കർശനമായി പാലിക്കേണ്ടതാണ്) (Nb3):-State Level environmental Impact Assessment Authority,Kerala യിൽ നിന്നുള്ള No.1618/EC2/2019/SEIAA നമ്പർ Enviornmental Clearance ൽ രേഖപ്പെടുത്തിയിട്ടുള്ള നിബന്ധനകൾ പാലിക്കേണ്ടതാണ്. (Nb4):-KSPCB/KL/ICO/10020596/2023 നമ്പർ Consent To operate ൽ രേഖപ്പെടുത്തിയിട്ടുള്ള നിബന്ധനകൾപാലിക്കേണ്ടതാണ്. (Nb5):-സമീപ വസ്തു ഉടമകൾക്ക് ഹാനികരമാകാത്ത വിധത്തിൽ പാറഖനനം നടത്തേണ്ടതാണ്

ഓഫീസ് മുദ്ര



K. VIKRAMAN PILLAI
SECRETARY, PEN 584462
Elamadu Grama Panchayat
Elamadu (P O), Kollam (Dist.)
Kerala (State) India. Pin-691533
Ph: 04/4 2670236, 9496041837

ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

1. കേരളാ പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
2. തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ / സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.
4. പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാകാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിനു വച്ചിട്ടുള്ള ക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
6. ഓരോ പ്രവർത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൂഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച്, സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
8. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുവരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ഭാവകമോ, മാലിന്യമോ, ചപ്പുചവറോ, അസഹ്യവും, ഉപദ്രവകരവുമായ ഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേണ്ടതാണ്.
9. ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാടുതീർത്ത് വയ്പിക്കേണ്ടതാണ്.
10. അധിത്തം ആചരിക്കുന്ന കടകളുടെ ലൈസൻസ് റദ്ദുചെയ്യുന്നതാണ്.
11. ഏതെങ്കിലും തരത്തിലുള്ള താക്ക് രോഗമോ ക്വഞ്ച് രോഗമോ വ്രണമോ പകർച്ച വ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
12. 50 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
13. സ്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്.
14. 20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയ്ലെറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
15. നിരോധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല, ഗ്ലൂബ് തുടങ്ങിയവ സംഭരിച്ചുവയ്ക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
16. ബാലവേല അനുവദിക്കാൻ പാടില്ല.
17. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യപ്പെടുന്നതിന് കാരണമാകാവുന്നതാണ്.

N.B :- ഈ ലൈസൻസ് അനുസരിക്കുന്ന തീയതിയ്ക്ക് 30 ദിവസം മുമ്പ് ലൈസൻസി പുതുക്കുന്നതിനുള്ള അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്.



സെക്രട്ടറി

M. VIKRAMAN PILLAI
 SECRETARY, PHN 584462
 Elamadu Grama Panchayat
 Elamadu (P.O.), Kollam (Dist.)
 Kerala, India Pin-691533
 Ph: 0474 2670236, 9496041837

ANNEXURE 5
QUARRY PERMIT

3

FORM M
[See sub-rule (2) of Rule 9]
(For all type of quarrying /permits)

GOVERNMENT OF KERALA
DEPARTMENT OF MINING & GEOLOGY DISTRICT OFFICE, KOLLAM
QUARRYING PERMIT FOR EXTRACTION OF GRANITE BUILDING STONE/
GRANTED UNDER RULES 3(1), 9 AND 10 OF THE KERALA MINOR
MINERAL CONCESSION RULES, 2015

No. 02/2023-24/MM/GBS/STP/2928/DOQ/S2/2018

Dated. 18.04.2023.

Sri. A M Chackochan, Managing Partner, M/s Aiswarya Granites, Elavinmood, Arkkannoor P.O, Ayoor is hereby permitted to extract and remove GRANITE BUILDING STONE from an area of 79.69 ARES in Block No. 27, RESURVEY No. 272/3, 272/4, 272/5 of Elamadu Village of KOTTARAKKARA Taluk of KOLLAM District, Kerala State under rule 3(1) and 9 of the Kerala Minor Mineral Concession Rules, 2015 subject to the conditions mentioned in rule 10.

Quantity of extraction of mineral permitted : 36060 MT
Whether the permit holder opted CRP System : No.
Number of mineral transit passes to be issued :
Name and address of the owner of the land : Govt. Land
under mineral concession/particulars of
consent/NOC received from the occupier of
the land (if applicable)

Date of expiry of permit : 17.04 2024

DETAILS OF FEE REMITTED

Item	Chalan No. and Date	Amount	Name of Treasury
Application fee	KL 005715717 201819 M, Dated: 6/9/2018	1,000/-	D.T.Kollam
Royalty	KL 000988162 202324 E, Dated : 11.04.2023	1730880/-	E Chalan
Surface Rent	ETR 00052799 202324, Dated : 11.04.2023	400/-	E TR-5
DMF	No 25765 Dated 11.04.2023	173088	District Treasury, Kollam
Add. Royalty remitted, if any			



Signature and Address of the issuing authority.

To

SRI. A M Chackochan, Managing Partner, M/s Aiswarya Granites, Elavinmood, Arkkannoor P.O, Ayoor

- Copy to:
- (1) The District Collector, (with C/L)
 - (2) Superintendent of Police, Kottarakkara (with C.L.)
 - (3) Sub Inspector of Police, Chadayamangalam
 - (4) Village Officer, Elamadu

ANNEXURE 6
ENVIORNMENTAL MONITORING
RESULTS

TEST REPORT

Test Report No.: 231223/R022	Date: 30-12-2023	Page 1 of 1
------------------------------	------------------	-------------

CUSTOMER DETAILS

Customer Name & Address	Mr. A M Chackochan Managing Partner M/s Aishwarya Granites Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam District
Customer Reference	Test Request date: 22-12-2023

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	231223/S022
Sample Name	Ambient Air	Sample Received on	23-12-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	24-12-2023
Sampled by	Lab Authorized Sampler	Test Completed on	29-12-2023

DETAILS OF SAMPLING

Sampling Location	Project Site	Date of Sampling	22-12-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	69 %

SAMPLING SITE DETAILS

Survey No.	272/3, 272/4 & 272/5		
Village	Elamadu	Taluk	Kottarakara
District	Kollam	State	Kerala

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter, PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	59.5	100 (Max)
2	Particulate matter, PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	27.8	60.0 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	<4.00	80.0 (Max)
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	<4.00	80.0 (Max)

Remarks:

End of Report

Nesny A.K.
Chemist

Checked by



Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110

Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

TEST REPORT

Test Report No.: 231223/R023	Date: 30-12-2023	Page 1 of 1
------------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	Mr. A M Chackochan Managing Partner M/s Aishwarya Granites Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam District
Customer Reference	Test Request date: 22-12-2023

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	231223/S023
Sample Name	Ambient Noise	Monitoring Commenced on	22-12-2023
Test Method	IS 9989:1981	Monitoring Completed on	23-12-2023
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Survey No.	272/3, 272/4 & 272/5		
Village	Elamadu	Taluk	Kottarakara
District	Kollam	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.3	14:00	50.1	22:00	36.2
07:00	40.0	15:00	50.4	23:00	35.0
08:00	44.3	16:00	51.6	24:00	37.5
09:00	47.7	17:00	52.0	01:00	38.3
10:00	50.1	18:00	46.6	02:00	37.9
11:00	53.1	19:00	43.1	03:00	38.6
12:00	50.4	20:00	39.3	04:00	37.5
13:00	49.7	21:00	38.8	05:00	39.3


Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	48.5
2	Ambient Sound Level (Leq) Night Time	dB(A)	37.9

Remarks:

End of Report


Nesny A.K.
Chemist
Checked by




Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: sealab@gmail.com

TEST REPORT

Test Report No.: 231223/R024

Date: 30-12-2023

Page 1 of 2

CUSTOMER DETAILS

Customer Name & Address	Mr. A M Chackochan Managing Partner M/s Aishwarya Granites Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam District
Customer Reference	Test Request Date: 22-12-2023

SAMPLE DETAILS

Product Category	Water	Sample Code	231223/S024
Sample Name	Ground Water	Sample Received on	23-12-2023
Sample Description by Customer	Open Well Water	Temperature @ Receipt	27°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23-12-2023
Sample Quantity& Packing	2 L in a Plastic Bottle	Test Completed on	29-12-2023
Information Provided by Customer	---	Sampled by	Not Drawn by Laboratory

SAMPLING SITE DETAILS

Survey No.	272/3, 272/4 & 272/5		
Village	Elamadu	Taluk	Kottarakara
District	Kollam	State	Kerala

TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 1983	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 1984	NTU	<0.10	1.0 (Max)
4	pH	IS 3025 (Part 11): 1983	---	6.65	6.50-8.50
5	Conductivity	IS 3025 (Part 14):1984	µS/cm	108	---
6	Total Dissolved Solids	IS 3025 (Part 16): 1984	mg/L	67.1	500 (Max)
7	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009	mg/L	32.3	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	8.00	75 (Max)

Nesny A.K.
Chemist

Checked by



Remya B.
TM-Biological

Authorized Signatory

Laiju P.N.
Laboratory Head

Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110

Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards

TEST REPORT

Test Report No.: 231223/R024

Date: 30-12-2023

Page 2 of 2

TEST RESULTS- CHEMICAL DISCIPLINE

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
9	Magnesium as Mg	IS 3025 (Part 46): 1994	mg/L	2.95	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	12.9	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986	mg/L	17.9	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	0.15	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24): 1986	mg/L	1.19	200 (Max)

TEST RESULTS - BIOLOGICAL DISCIPLINE

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500 : 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Nesny A.K.
Chemist

Checked by



Remya B.
TM-Biological

Authorized Signatory

Laiju P.N.
Laboratory Head

Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist.- 683 110

Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com