# HALF YEARLY COMPLIANCE REPORT

**FOR** 

**OCTOBER 2022 - MARCH 2023** 

**IN RESPECT OF** 

### **BUILDING STONE QUARRY**

Extent: 4.3049 Ha

&

Capacity: 59,510 Cu.m/Annum

**OF** 

Mr. SHIJU THOMAS

**AT** 

Survey No.: 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt & 356/1-1 pt, Block no-32

of

Alakodu Village, Thodupuzha Taluk, Idukki District, Kerala State-685 588.

**JUNE-2023** 

Website - http://shijuthomas.in/CSR.html

### <u>Proceedings of the District Environmennt Impact Assessment</u> <u>Authority Idukki District</u>

#### [Present Sri. G.R Gokul I.A.S(chairman),

#### Sri. P.G Radhakrishnan (member secretary).

### Sri.Narendra babu I.F.S(member), Dr .George Abe(member)]

Subject :Environmental clearance for the building stone quarry project in Survey No's 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt and 356/1-1 pt in Alakodu Village, Thodupuzha Taluk, Idukki District by Sri. Shiju Thomas, Pallivathukkal House, Chilavu P.O..idukki(dist)-EC granted orders issued.

### District Environment Impact Assessment Authority ,Idukki

#### no:1/2016/dejaa/jdk/ker

Dtd:20/04/2017

- Ref (1):Application from sri. Shiju Thomas ,Pallivathukkal(h),chilavu p.o, Thodupuzha
  - (2):Minutes of district level environment appraisal committee dtd 03.02.2017
  - (3):Site inspection report of sub committee of DEAC submitted by senior geologist, Department of mining and geology, Idukki
  - (4):Minutes of first meeting of DEIAA dtd 30.03.17
  - (5):Ltr no;doi/250/m/16 dtd 12/04/2017 of District Geologist, Mining and Geology Idukki

Sri. Shiju Thomas, Pallivathukkal House, Chilavu P.O, Thodupuzha vide his application submitted through web site has sought Environmental Clearance under EIA notification, 2006 for the building stone quarry project in Survey Nos 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt, 356/1-1 pt in Block 32 of Alakodu Village, Thodupuzha Taluk, Idukki Dist. for an area of 4.3049 hectares. The project falls under the category B2 as per the EIA notification No. S.O 1533 (t) dated. 14.09.2006 of MOEF & CC, other details of the project are as follows:-

#### 1. About the project

Name of Project :- Building stone Quarry of Mr. Shiju Thomas, Pallivathukkal House, Chilavu P.O.

Brief description of the Project: The proposed rough stone quarry project is spread over an area of 4.3049 hectare, the proposed production is of 59510 m3 per annum and the span of the quarry is 5 years. The quarry operation is proposed up to 109 meter above MSL and to carry out with semi mechanized opencast mining with 5.0 meter vertical benches with a back width of 5.0 meter. Quarry operation is to carry out by splitting of rock mass from the permit rock area by jackhammer drilling and blasting. Hydraulic excavators are to use for loading the stone from pit head and tippers will be used for transportation of stones. Hydraulic excavators are intended to be attached with rock breakers for breaking of large boulders to avoid secondary blasting.

Category/sub category & schedule	B2 (Mining of mineral)		
Topography	Hilly Terrain		
GPS Co-ordinates	Latitude (N)- 09° 51¹ 40.90" N		
	to 09° 51¹ 50.08" N		
	Latitude (E)- 76° 45¹ 40.88" E		
	to 76° 45¹ 45.26" E		
Extent of area	4.3049 Hectare		
Span of mine proposed	5 years		
Depth of mining	52m		
Distance from the adjacent quarry	There are no adjacent quarries within 500 meters from the mine lease area.		
Capacity of production	59510 m³/annum		
Details of Project cost	56,20,000 (Rupees Fifty Six Lakhs Twenty Thousand Only)		

Water requirement & resources:- Details of water requirements in KLD(Kilo litre per day) as given below:

Domestic and drinking purpose	2.0 KLD
Dust suppression	12.0"
Green Belt	3.0"
Total	17.0 KLD

Drinking water is sourced from the open well which will be purified in a small reverse osmosis plant.. For dust suppression and green belt, water is obtained from the open wells/storm water reservoir of proposed site.

Recycled water:- The storm water / mine water will be used for dust suppression and green belt developments.

Liquid effluent: Domestic effluent sent to septic tanks followed by soak pit.

**Land:**-Access of road to the site: The district road connecting Thodupuzha and Anakayam Via Enchiyani is at a distance of 0.5 km from to project site.

Facility for solid waste	The waste generated during the mining period
management	is 16921m3 will be proposed dumping to south
	side of the lease area and along the lease
	boundary
Topographic features	The area applied for quarry site is almost a hilly terrain with the highest elevation of 109 meter to a lowest elevation of 89 meter above MSL
proneness of the area for land	Semi mechanized open cast mining with benches
slides	will be carried out .ultimate slope of the mine will
	be maintained at 45 degree. Since the granite is
	hard rock formation ,land slides are not
	envisaged. The area falls in seismic zone-3 and is moderate damage risk zone.

#### Air:-

Air quality requirements	Air quality to meet requirements as per rules	
Noise level meeting requirement	Noise level to be within limits as per rules	
Likely emission affecting environment	Emission of dust, SO <sub>2</sub> ,Nitrous Oxide during drilling ,blasting , loading and transport activities. Noises will be generated by the mining machineries.	

#### Biodiversity:-

Presence of any endangered species or red listed category	None
Loss of native species and generic diversity	Not envisaged ,except small bushes, Arecanut , Rubber,Cocoa and other plants. No major vegetation cover/valuable flora is found within the mining area.

#### Social aspects:-

Proximity to nearest habitation

:Nearest house is at 104 meter away

Corporate social responsibility

SL.no	Description of item	Amount proposed(in rupees)
1	Distribution of books to Enchiyani Govt.L.P school students	250000
2	Repairing of Thodupuzha- Anakkayam road	250000
3	Sanitary facility for Enchiyani Govt.L.P school(toilets,drinking water facility)	300000
4	Organizing Health camps	200000
5	Total	10,00,000

#### General

General		
Does it propose environment management plan	EMP is submitted along with form 1M	
Biomedical waste management	There is no biological waste generation in the building stone quarry	
E-waste management	There is no E-waste generation in the building stone quarry	
Sufficiency of parking spaces/ Traffic management	Enough space is available	
Litigation/court case if any against the project	Non as of now	
Details of authorized signatory	Mr.Shiju Thomas,pallivathukkal(house) Chilavu p.o,Thodupuzha.Idukki (dist) Pin:685588; mobile no:9447522690	
Details NABL approved laboratory	ABC techno labs India pvt ltd. No:950/3,3rd cross street ,sector 2,south face Ambattoor industrial estate,Chennai. Phone:044-26257788.certificate no.T.1586 DTD 08/10/15 valid up 07/10/2017	

2. On submission of approved mining plan as per KMMC rule 2015,the proposal was placed in the first meeting of DEAC. Further to intimation of DEAC,the proponent along with the consultant attended the meeting. The DEAC decided to defer the item for field inspection and constituted a sub committee for the same. The sub committee inspected site on 25/01/2017 and put forward some conditions.

#### 3. The conditions are as follows.

- The boundary pillars should be numbered and fixed in the lease area as per the approved mining plan
- Fencing with barbed wires should be provided all along the boundary of the lease area except the part needed for vehicular traffic.
- The boundary between the govt surplus land in survey no.356 on the southeastern side of the lease area and the applied lease area must be clearly demarcated.
- There should not be any further quarrying in the already quarried pit as the depth of pit has already reached more than 20 meters at present. The quarried pit should be retained as a rain water storing site.
- There should not be any further quarrying in the buffer zone area on the eastern side of the lease area where already quarrying was carried out as per the earlier permits
- A greenbelt should be maintained all around the quarry by planting trees.
- The ultimate depth of the quarry must be limited to 20 meter, from ground level as per the mining plan.
- There should be some rain harvesting structure at the north-eastern valley part of the quarry lease area
- The water draining from the quarry to the out side area must be after clearing the sediments and impurities by passing through one or two settling tanks
- Dust suppression mechanisms using sprinklers must be established in the quarry.
- The approach road to the quarry must be tarred using metal.
- It is instructed to only remove topsoil up to a maximum depth of 2 meter while quarrying.
- 4. In the 2<sup>nd</sup> meeting of DEIAA held on 30/03/2017, the committee after studying the case in detail accepted the 13 conditions raised by the DEAC. The committee also decided to collect the mining history of the proponent and authorized member secretary to collect it from district geologist. As decided by the Ist meeting of DEIAA, the documents of lands called for been submitted by the proponent and mining history of the proponent have been submitted by Senior Geologist, Mining and Geology Idukki District as reference (5). As per reference(5) it is found out that there are no charges were against the proponent for activities like illegal mining, mining outside the area and violation of lease permit to collect it from district geologist. The details of the ownership of the private land in which the project is proposed is as follows

Sy.no	Extent(hect ) /T.p no	Name of owner	Document details/date	Prior document details 1	Prior document details 2	Old sy.no
294/1pt 356/1-1 pt	0.3150 T.P 32/589 0.0853 T.P 32/589	Shaji joseph cherthalackal Anchiry	557/14 DTD 12.02.14 561/14 DTD 12.04.14 876/15 DTD 26.03.15 1196/14 DTD 28.03.14 SRO KARIKODU	927/72 1255/61 sro karikodu 1664/62 sro Thodupuzha	1285/58 sro Thodupuzha	1026/1/7
294/2pt	1.4385 T.P 32/2046	John pathrose villanguparayil.Anchiri	2061/97 dtd 10.06.97 sro karikodu	3580/58 DTD 01.10.58 sro thodupuzha	922/52 sro Kanjirappally	1026/1

295/5 295/6	1.0230 · TP 32/1047 0.7667 TP 32/1047	Selestian s/o mathew .plakkoottathil(h),anchir y		2129/77 sro karikodu		1026/1/7
296/2pt	1.4385 TP 32/3460	Roger mathew,Plakkuttathil.an chiry	899/05 dtd 28.02.05 sro karikodu	2476/89 2458/89 1201/98 sro karikodu	2952/85	

Examining the details of land it is understood that the proposed site is a private land which is not assigned under any assignment rule of kerala but it is pandarayaka land as per the basic tax register. Land owners and the proponent has executed an agreement to excavate the granite building stone for the period of 15 years from the above mentioned area. Also going through the documents submitted by proponent such as detailed mining plan, mine closure plan, environment management plan and pollution control methods the committee is satisfied by the methods suggested there to reduce the gravity of pollution and steps to mitigate the risk of environment hazard. In addition to the above facts the committee analyzed the fact of severe shortage of granite building stone in the said region and its impact on social-economic condition of public and development of the region,the District Level Impact Assessment Authority Idukki hereby grant environmental clearance to the proposed quarry project Thomas pallivathukkal(h) chilavu in Thodupuzha taluk of Idukki district for an area of 4.3049 hectares subject to the condition specified in para 3

- 5. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures in the environment management plan of the pre-feasibility report and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The undertaking and conditions regarding mining, blasting, pollution control and progressive mine closure plan of the mining plan submitted will be deemed to be part of this proceedings as condition as undertaken by the proponent, as if incorporated herein.
- **6.**Validity of the environmental clearance will be five years from the date of this environmental clearance, subject to the earlier review in the event of genuine complaint from anybody from the safety area or violation or non-compliance of any of the conditions stipulated herein.
- 7. Complaints of the conditions herein will be monitored by DEIAA and higher authorities of ministry of environment and forest government of India.
- (i) This E.C is one among the licenses to be obtained by proponent from mining. In order to start the mining activities and operations in the project the proponent must obtain the other licenses from the concerned authorities.
- (ii) 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.

(iii) Instances of violation if any shall be reported to District collector,Idukki to take legal action under the environment protection act,1986.

P.G Radhakrishnan Member secretary DEIAA,Idukki

Revenue divisional officer, Idukki

IDECKL B

# COMPLIANCE TO THE CONDITIONS STIPULATED IN THE ENVIRONMENTAL CLEARENCE ISSUED BY DISTRICT LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORUTY, IDUKKI

#### Vide

### No. 1/2016/DEIAA/IDK/KER

Building Stone Quarry Project in Survey Nos. 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt & 356/1-1 pt, Block no-32 at Alakodu Village, Thodupuzha Taluk, Idukki, Kerala State – 685 588 over an extent of 4.3049 Ha by Mr. Shiju Thomas, Pallivathukal House, Chilavu P.O, Thodupuzha, Idukki District – 685 588

Sr. No.	Specific Conditions	Compliance Status
1.	Boundary pillars should be numbered and fixed in the lease area as per the approved mining plan.	Boundary pillars are fixed and numbered as per the approved mining plan.
		The photographs showing the boundary pillars are attached as <b>Annexure 1.</b>
2.	Fencing with barbed wires should be provided all along the boundary of the lease area except the part needed for vehicular traffic.	Fencing with barbed wires all along the lease boundary is fixed.
		The photographs showing the barbed wire fencing is attached as <b>Annexure 2</b>
	The boundary between the Government surplus	The boundary between Government
	land in Survey number 356 on the south eastern side	surplus land in Sy. No. 356 on the
3.	of the lease area and applied lease area must be	south eastern side of the lease area
J.	clearly demarcated.	and applied lease area has been clearly
		demarcated with fencing.
		Photographs attached as <b>Annexure 3</b>
	There should not be any further quarrying in the	Noted. The already excavated pit shall
	already quarried pit as the depth of the pit has	be retained as rain water storing site.
4.	already reached more than 20 meters at present. The quarried pit should be retained as rain water storing site.	Photograph attached as <b>Annexure 4</b>

Dated: 20/04/2017

	There should not be any further quarrying in the	Noted. There will be no further
5.	buffer zone area on the eastern side of the lease area	quarrying on the eastern side of the
	where already carried out as per earlier permits.	lease area.
	A greenbelt should be maintained all around the	Greenbelt is being established all
	quarry by planting trees.	around the quarry.
6.		Photographs showing the nursery for
		saplings for greenbelt development is
		attached as <b>Annexure 5</b>
	The ultimate depth of the quarry must be	
7.	limited to 20 meters, from the ground level as	Noted and shall be followed as per
	per the mining plan.	the mining plan.
	There should be some rainwater harvesting	Rainwater harvesting structure has
	structure at the north-eastern valley part of the	been developed on the north-eastern
8.	quarry lease area.	valley part.
	quality reason them.	Photographs attached as <b>Annexure 6</b>
	The water draining from the quarry to the outside	Settling tanks for clarification of water
	area must be after clearing the sediments and	from the quarry area has been
9.	impurities by passing through one or more settling	established as a part of rainwater
	tanks.	harvesting plan.
	Dust suppression mechanisms using sprinklers must	Sprinklers shall be established at the
	be established in the quarry.	quarry for dust suppression.
		At present dust suppression through
10.		water tankers are carried out.
		Photographs of the water tankers for
		dust suppression is attached as
		Annexure 7
	The approach road to the quarry must be tarred	The approach road to the quarry has
11.	using metal.	been laid with interlocking tiles.
		The details are attached as <b>Annexure 8</b>
	It is instructed to only remove topsoil up to a	Only 2m of topsoil shall be removed
12.	maximum depth of 2m while quarrying.	while quarrying. The same will be
= <b></b> ,		utilized for the greenbelt
		development.

Sr. No.	General Conditions	Compliance Status
1.	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.	RWH facility as per the required guidelines shall be implemented at the site.  Refer <b>Annexure 6</b>
2.	Environmental Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Environmental Monitoring Cell headed by Quarry Manager along with qualified Environmental Consultant is being engaged for effective implementation of the pollution control measures.
3.	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, inclusive of approach road and internal roads.	Avenue trees along the side of the road and open parking areas will be developed as a part of Green Belt development.  Already saplings have been planted.  Refer: Annexure 5
4.	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Solar lamps is installed near the Office area. <b>Annexure 24</b>
5.	Sprinkles shall be installed and used in the project site to contain dust emissions.	Sprinklers shall be installed in the project site and also outside the project site to minimize the duct emission from the process and vehicles. At present Water tankers are used for dust suppression.  Refer <b>Annexure 7</b>
6.	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Eco-restoration plan as per the Post Mine Closure Plan Will be Implemented in the quarry as per the plan submitted.
7.	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 indigenous plant species that are eco friendly, if no other specific condition on reclamation of pit is stipulated in the EC	Will be followed as per the guidelines.

8.	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	CSR plan as agreed and other CSR activities are being taken up and shall be implemented. Receipts of CSR activities attached as <b>Annexure 9</b>
9.	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of the mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all the times and shall be conspicuous.	Fencings all around the boundary of quarrying area shall be provided to avoid the incidence.  Refer: Annexure 2
10.	Warning alarms indicating the time of blasting (to be done specific timing) has to be arranged as per stipulations of Explosive Department.	As per the stipulations of Explosive Department the warning alarms by indicating the blasting time is provided. Photographs are attached as Annexure 10
11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Prescribed control measures from KSPCB shall be followed.
12.	Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	Quarrying activities are limited to only day time.
13.	Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.	Blasting shall be done in controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14.	A licensed person should supervise/ control the blasting operation.	All activities are supervised by a licensed Blaster and Mines Manager. License attached as <b>Annexure 11</b>
15.	Access road to the quarry shall be tarred to contain dust emission that may arise during transportation of materials.	Access road to the quarry shall be tarred and maintained affectively. <b>Annexure-27</b>
16.	Overburden materials should be managed within the site and used for reclamation of the mine pit as per mine closure plan / specific conditions.	Noted and shall be followed.
17.	Height of the benches should not exceed 5m, and width should not be less than 5m, if there is no mention in the mining plan/ specific conditions.	Noted and is being followed.  Photograph attached as <b>Annexure</b> 12

18.	Mats to reduce fly rock blast to a minimum of 10 PPV	Mats to reduce fly rock blast shall
10.	should be provided	be provided
19.	Maximum depth of the mining from general ground	Noted and will be followed.
17.	level at site shall not exceed 10 m.	
20.	No mining activity shall be carried out at places having	Noted and shall be complied.
20.	slope greater than 450	
	Acoustic enclosures should have been provided to	Not applicable
	reduce sound amplification in addition to the	
21.	provisions of green belt and hollow brick envelop for	
	crushers to that the noise level is kept within prescribed	
	standards given by CPCB/KSPCB.	
	The workers on the site should be provided with the	All workers are provided with
22.	required protective equipment such as ear muffs,	required PPE's.
	helmets, etc.	Photographs attached as <b>Annexure</b>
	Carley de during with alarificus to be growided in the	Coulond Duains is musuided to
23.	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm	Garland Drains is provided to channelize the storm water during
23.	water.	the monsoon. (Annexure-8)
	The transportation of minerals should be done in	Trucks used for transportation will
24.	covered trucks to contain dust emissions.	be covered to reduce dust
	CONSTRUCTION OF CONTRACT CLASS CALABORION	emissions.
	The proponent should plant trees at least 5 times of the	Greenbelt is developed as per
25.	loss that has been occurred while clearing the land for	the guidelines. (Annexure-5)
	the project.	
	Disposal of spent oil from diesel engines should be as	Spent oil for diesel engines shall be
26.	specified under relevant Rules / Regulations.	handed over to authorized
		recyclers.
	Explosives should be stored in magazines in isolated	Explosives are stored in magazines
	place specified and approved by the Explosives	in earmarked area as specified by
27.	Department.	the authority.
		Photographs attached as <b>Annexure</b>
		14
	A	Committee
	A minimum buffer distance of 100m from the boundary	Complied.
20	of the quarry to the nearest dwelling unit or other	
28.	structures, not being any facility for mining shall be	
	provided.	
	100 m buffer distance should be maintained from forest	NA.
29.	boundaries.	1444
	Doditalico.	

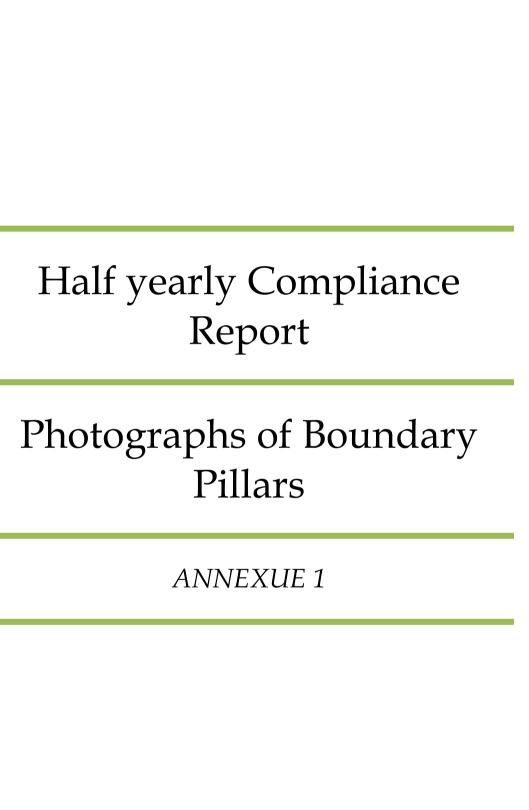
30.	Consent from KSPCB under Water and Air Act(s) should be obtained before initiating mining activity.	Required consent from KSPC has been obtained. Attached as <b>Annexure 15</b>
31.	All other statutory clearance should have been obtained, as applicable, by project proponent from the respective competent authorities including that for blasting and storage of explosives.	All the statutory clearances / permissions are obtained which is applicable to the project.
32.	In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting environmental parameters/impacts as assessed, based on which EC is issued, the project would require a fresh appraisal by this authority, for which the proponent shall apply and get approval of this Authority.	Will adhere as per the EIA Notification.
33.	The Authority reserves the right to add additional safeguards measures subsequently, if found necessary, and take actions including revoking of the Environment clearance under the provisions of the Environment (Protection) Act 1986, to ensure effective implementation of the suggested safeguards measures in a time bound and satisfactory manner.	Noted.
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 and Air (Prevention and Control of Pollution) Act 1981, the Environment (protection) Act 1986, the Public liability (Insurance) Act 1991 and EIA Notification, 2006.	Stipulated conditions shall be implemented.  Air and Water Analysis reports are enclosed as <b>Annexure No 16 &amp; 17.</b>
35.	The Project proponent should advirtise in at least two local newspapers widely circulated in the region, one of which shall be in vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the office of this Authority as confirmation.	Advertised in the news paper.

	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District	Copy of the EC letter is submitted to Gram Panchayat and
36.	Panchayat/Municipality/Corporation/Urban local body and also to the Local NGO, if any, from whom suggestions / representations, if any, ere received while processing the proposal. The Clearance letter shall also	acknowledgment is submitted SEIAA, Kerala.
	be put on the website of the company by the proponent.	
37.	The Proponent shall submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional office of MoEF, Govt. of India and also to the SEIAA Office.	Half yearly compliance report is submitted regularly to the Concerned Department as specified. (Details attached as Annexure-23)
	The details of Environmental Clearance should be	Details of Environmental Clearance
38.	prominently displayed in a metallic board of 3 ft X 3 ft. with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board	are displayed.  Photographs attached as <b>Annexure</b>
	with extend of lease area and boundaries shall be depicted at the entrance of the quarry, visible to public	18
	The proponent should provide notarized affidavit	Affidavit to follow the conditions
39.	(indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	stipulated in EC has been provided.
	No change in mining technology and scope of working	Noted and shall be followed.
40.	should be made without prior approval of the SEIAA,	
40.	No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	
	The project proponent shall ensure that no natural	Noted and shall be followed.
41.	water course and/ or water resources shall be obstructed due to any mining operation. Necessary	
	safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	
	Monitoring of Ambient Air Quality to be carried out	Regular monitoring of Ambient Air
42.	based on the Notification 2009, as amended from time to time by the CPCB. Water sprinkling should be	Quality shall be carried out as per the Notification and water
	increased at places loading and unloading points &	sprinkling shall be done to reduce

	transfer point to reduce fugitive emission.	dust emissions.
43.	The top soil, if any, shall be temporarily be stored in 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 to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface runoff. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and Management of rehabilitated areas should continue until vegetation becomes self sustaining.	Noted and shall be strictly followed as per the guidelines.
44.	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent runoff of water and flow of sediments directly into the rivers and other water bodies. The water so collected should be utilized for watering the mine area, roads, greenbelt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Siltation ponds and drainage is constructed as per the specification and the photos of same is attached as Annexure 6
45.	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having levels of PM <sub>10</sub> and PM <sub>2.5</sub> such as haul road, loading and unloading points and transfer points- it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the CPCB.	Necessary actions to curb air pollution will be taken at the project site and shall ensure that the Ambient Air Quality parameters conform to the norms prescribed by the CPCB.
46.	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading points and transfer points should be provided and properly maintained.	Noted and shall be followed.
47.	Measures should be taken for control of noise levels below 85 dBA in the work environment.	Noted and will be followed.  Noise level monitoring report is attached as <b>Annexure 19</b>
48.	A separate environmental management cell with suitable qualified personnel should be set up under the control of Senior Executive, who will report directly to the Head of the Organization.	Environmental Monitoring Cell headed by Quarry Manager along with qualified Environmental Consultant / Engineers is being engaged for effective implementation of the

		pollution control measures.
	The funds earmarked for environmental protection	CSR activities as agreed is being
	measures and CSR activities should be kept in separate	taken up.
49.	account and should not be diverted for other purpose.	Refer <b>Annexure 9</b>
	Year wise expenditure should be reported to the SEIAA	Teres 121116.002 5
	office.	
	The Regional Office of MoEF&CC located in Bangalore	The CCR from MoEF&CC
	shall monitor compliance of the stipulated conditions.	after the site inspection is
50.	The project authorities should extend full cooperation	attached as Annexure 27
	to the officer (s) of the Regional Office by furnishing the	
	requisite data/information/monitoring reports	
	Any appeal against this Environmental Clearance shall	Noted.
E1	lie with the national Green Tribunal, if preferred, within	
51.	a period of 30 days as prescribed under Section 16 of the	
	National green Tribunal Act, 2010.	
	Concealing the factual data or submission of	Noted.
	false/fabricated data and failure to comply with any of	
52.	the conditions mentioned above may result in	
	withdrawal of this clearance and attract action under	
	the provisions of Environment (Protection) Act,1986.	
	The SEIAA may revoke or suspend the order, for non	Noted.
F-0	implication of any of the specific or this implementation	
53.	of any of the above conditions or stipulate any further	
	condition in the interest of environment protection.	
	The above conditions shall prevail not withstanding	Noted.
	anything to the contrary, in consistent, or simplified,	
54.	contained in any other permit, license or consent given	
	by any other authority for the same project.	
	This order is valid for a period of 5 years or the expiry	Noted.
55.	date of mine lease period issue by the Government of	
	Kerala, whichever is earlier.	
	The Environmental Clearance will be subject to the final	Noted.
56.	order of the courts in any pending litigation related to	
	the land or the project, in any court of law.	
	The mining operations shall be restricted to above	Noted and will be strictly adhered.
57.	ground water table and it should not intersect the	
	ground water table.	
	All vehicles used for transportation and within the	All Vehicles used within the quarry
58.	mines shall have 'PUC' certificate from authorized	areas are having PUC certificate.
50.		

	inside of the lease area.	
59.	Project proponent shall obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.	Noted and shall be followed.
60.	Regular monitoring of flow rates and water quality up stream and down stream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.	Noted and is being followed.
61.	Occupational health surveillance program of the workers should be undertaken periodically to observe any contradictions due to exposure to dust and take corrective measures, if needed.	Regular health checkups for the workers shall be done.



### PHOTOGRAPHS OF BOUNDARY PILLARS

















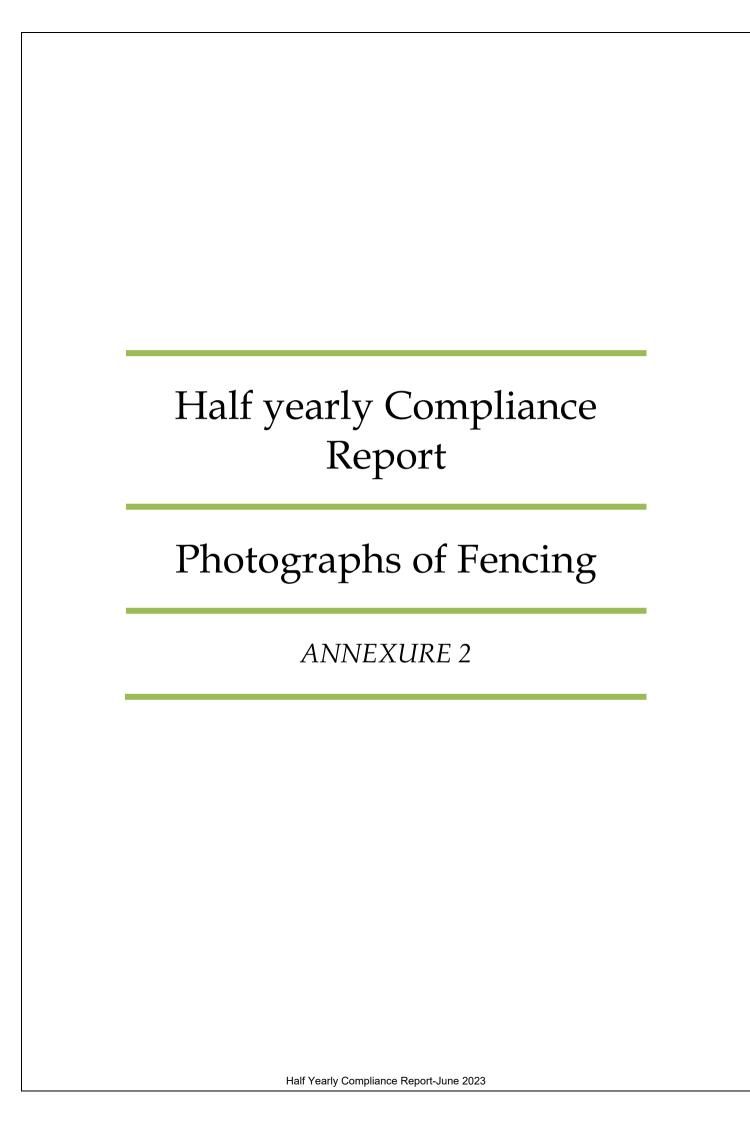
















PHOTOGRAPHS SHOWING THE FENCING AROUND THE QUARRY

Photographs of Govt. Excess Land Demarcation





Photograph of Excavated Pit as RAIN WATER STORAGE PIT

## Excavated pit retained as rainwater storage pond





Photographs of Greenbelt Development

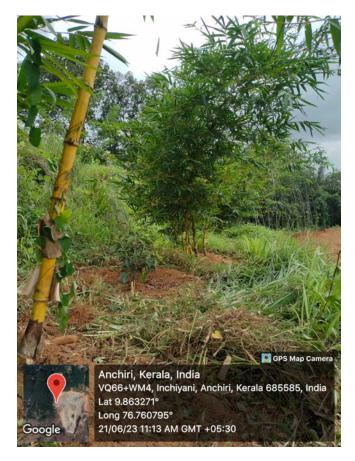




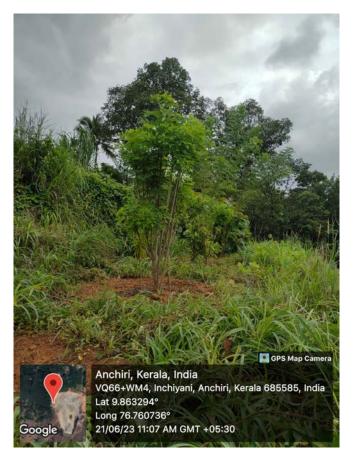




### PHOTOGRAPHS SHOWING GREENBELT DEVELOPMENT









# Photograph of Rainwater Harvesting Structure





PHOTOGRAPHS SHOWING NEWLY BUILD RAIN WATER HARVESTING STRUCTURE





PHOTOGRAPHS SHOWING OLD RAINWATER HARVESTING STRUCTURES

# Photograph of Dust Suppression

# PHOTOGRAPHS SHOWING THE WATER TANKER USED FOR SPRINKLING WATER FOR DUST SUPPRESSION ON HAUL ROADS





# PHOTOGRAPHS SHOWING WATER SPRINKLERS INSTALLED AT QUARRY SITE FOR DUST SUPPRESSION





PHOTOS OF NEWLY CONSTRUCTED
GARLAND DRAINS







**CSR** Receipts

# FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR : HOUSE CONSTRUCTION/RENOVATION)

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### FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA

(FUNDING FOR: HOSPITAL EXPENSES)

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# FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR : HOSPITAL EXPENSES)

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### FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR HOSPITAL EXPENSES)

(FUNDING FOR: HOSPITAL EXPENSES)

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# FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR : HOSPITAL EXPENSES)

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# FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR : HOSPITAL EXPENSES)

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### FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR HOUSE CONSTRUCTION (PENOWATION))

(FUNDING FOR: HOUSE CONSTRUCTION/RENOVATION)

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## FUNDING FOR HELPING THE ECONOMICALLY BACKWARD PEOPLE NEAR TO QUARRY AREA (FUNDING FOR : HOSPITAL EXPENSES)

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#### BUYING A BICYCLE FOR A STUDENT NEAR TO QUARRY AREA

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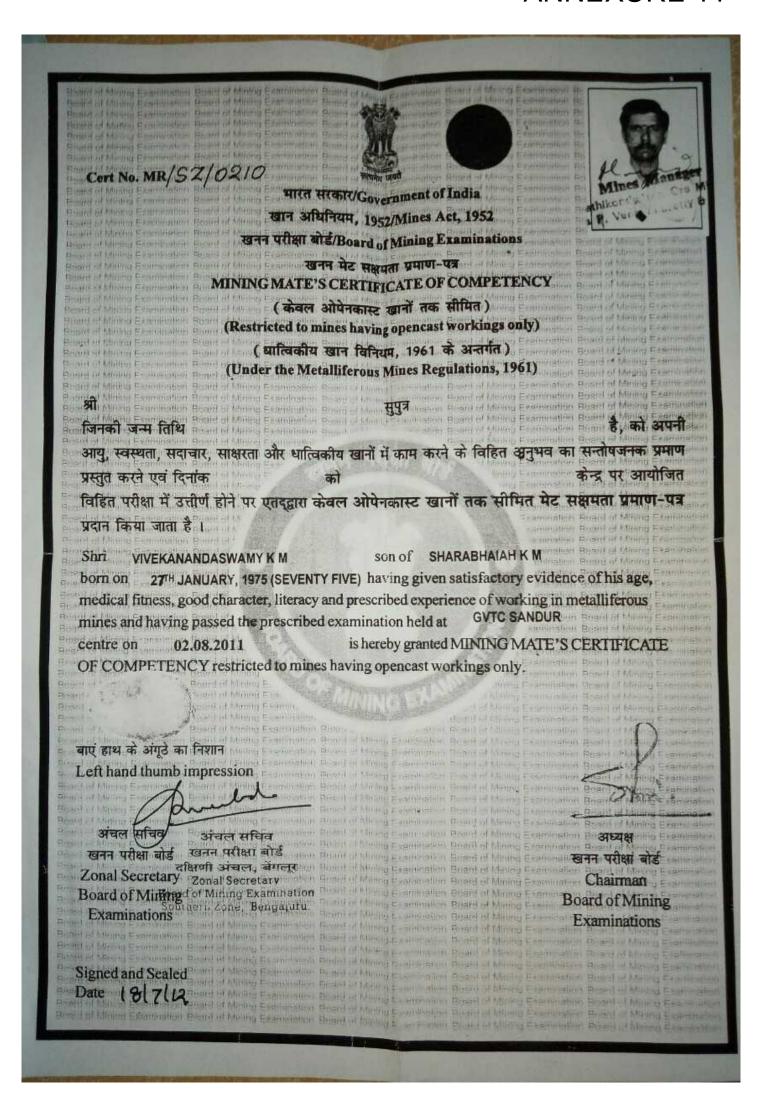




Photographs showing Blasting Time displayed



### Certificate of Mines Manager





#### SHRI VIVEKANANDASWAMY K.M., S/o.SHARABHAIAH K.M.

Home Address	KAMALAPU
Village	KAMALAPU
PO	KAMALAPUR
Police Station	BELLARY
District	KARNATAKA
State	

प्रमाणित किया जाता है कि उनकी सक्षम चिकित्सा अधिकारी द्वारा स्वास्थ्य परीक्षा कर खान में कार्य करने के लिए स्वस्थ घोषित किया जाता है । Certified that he has been examined by qualified medical officer and declared fit for employment in mines.

1	On	examined by qualified Medical Officer on 13-7-2916, and declaration employment in mine. This Certificate valid upto. 12-97-2921.	Ch I	On .	को
3 .	On	Director of Mines Sefety, Sellery	को	On ·	को
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				Prepared by Brandal	

# Photograph showing Bench Formation





PHOTOGRAPHS SHOWING FORMATION OF BENCHES



PHOTOGRAPHS SHOWING FORMATION OF BENCHES

Photograph showing workers with PPE's





Photograph showing the workers wearing PPE's

# Photograph showing Explosive Magazine





PHOTOGRAPH SHOWING THE EXPLOSIVE MAGAZINES



Consent from KSPCB



#### KERALA STATE POLLUTION CONTROL BOARD

FILE NO.: PCB/IDK/ICO/85/2017

Date of issue :31/07/2021

#### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No: R16IDU-ICO-R1-2704110

Ref: R16IDU-ICO-R-2704110 issued on 23/02/2020

The 'Integrated Consent to Operate' issued as per reference above to M/s Quarry of Shiju Thomas, Chilavu P O Chilavu, Thodupuzha is hereby renewed up to 19/04/2023 and issued to M/s Quarry of Shiju Thomas, Chilavu P O Chilavu, Thodupuzha The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

#### I. GENERAL

S.No.	Items	Description
1	CATEGORY	RED
2	CAPITAL INVESTMENT	43 LAKHS
3	ANNUAL FEE	Rs. 9600/-
4	FEE REMITTED	Rs. 9600/-
5	VALIDITY	19/04/2023

#### II. Stack Details

Stack No.	Source of	Emission	Stack Hei	ght above	Control
	Emission	Rate(Nm3/Hr)	Ground Level(In Meters)	Roof Level(In Meters)	Equipment

#### III. CONDITIONS

- 3.1 For renewal of the consent in case of continuance of discharge/operation of the industry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.
- 3.2 This consent is granted on the basis of the affidavit and other documents furnished by the applicant, If

Page1

the

DATE: 31/07/2021

statement furnished in the affidavit/document is found false or in the case of non-compliance of integrated consent to operate conditions the consent issued will be withdrawn/cancelled.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

EBY

Digitally signed by EBY

VARGHESE

**VARGHESE** 

Date: 2021.07.31 22:26:21

+05'30'

SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER, DO IDUKKI



To

Sri. Shiju Thomas Pallivathukkal (H) Chilavu P O Chilavu

- 1. This digitally signed document is legally valid as per the Information Technology Act 2000
- 2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

Page2

### Air Quality Monitoring Reports



#### POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone: 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

#### **TEST REPORT**

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/9424/2023
	Date of issue:	23/04/2023
	Date of monitoring	20/04/2023
Mr. Shiju Thomas	Date of sample received:	21/04/2023
Pallivathukkal House	Date of analysis	21/04/2023
Chilavu Post Thodupuzha	Monitoring Location	Quarry Owned by Mr. Shiju Thomas Survey No: 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt, 3546/1-1 pt Village: Alakode Taluk: Thodupuzha District: Idukki,Kerala
	Sample description	Ambient air
	Sample code given by client	Nil

SL NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM <sub>10</sub> )	IS 5182 Part 23 2006 RA 2012	56.6 μg/m³	100 μg/m <sup>3</sup>
02	Particulate Matter (PM <sub>2.5</sub> )	CPCB	24.0 μg/m <sup>3</sup>	60 μg/m <sup>3</sup>
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	4.6 μg/m <sup>3</sup>	80 μg/m <sup>3</sup>
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	3.7 μg/m <sup>3</sup>	80 μg/m <sup>3</sup>

Note: NAAQS-National Ambient Air Quality Standards

\* End of the Report\*

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

AUTHORIZED SIGNATORY

SREEJA RAMERIM QUALITY MANAGER POLUCHEN LABORNIORES EN LID

### Water Quality Analysis Reports



#### POLUCHEM LABORATORIES (P) LTD.

#### CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

Phone: 0484-2544030, 8281982322, 9747400085, 9747400089, www.poluchem.com, poluchem@gmail.com

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#### TEST REPORT

Page 01 of 01

Ref.No. PL/RT/OW/5027/2022

Name & address of customer

Project Site

Date of Issue: 23/04/2023 : Mr. Shiju Thomas

: Quarry Owned by Mr. Shiju Thomas Survey No: 294/1 pt, 294/2 pt, 295/5,

295/6 pt, 296/2 pt, 3546/1-1 pt

Village: Alakode Taluk: Thodupuzha District: Idukki, Kerala

Sample drawn by

Sample description Location of sampling Date of sample collected

Date of analysis started Date of completion of analysis : Poluchem Laboratory Sample Collector

: Drinking Water : Openwell Water

: 20/04/2023 : 21/04/2023

: 23/04/2023

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012	
Color	IS 3025 (P) 04 – 1983 RA2017	5 Hazen Unit	5 Hazen Unit	
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable	
Turbidity	IS 3025 (P) 10 – 1984 RA2017	0.6 NTU	1 NTU	
рН	IS 3025 (P) 11 – 1983 RA 2017	6.88	6.5 - 8.5	
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	98 mg/l	500 mg/l	
Total Hardness as CaCO <sub>3</sub>	IS 3025 (P) 21 – 1983 RA2014	24.6 mg/l	200 mg/l	
Total Alkalinity as CaCO <sub>3</sub>	IS 3025 (P) 23 – 1986 RA2014	21.2 mg/l	200 mg/l	
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l	
Chloride as Cl	IS 3025 (P) 32 – 1988 RA2014	22.4 mg/l	250 mg/l	
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	8.62 mg/l	75 mg/l	
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	2.4 mg/l	30 mg/l	
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.15 mg/l	1 mg/l	
Sulphate as SO <sub>4</sub>	IS 3025 (P) 24 – 1986 RA2009	12.2 mg/l	200 mg/l	
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l	
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l	
Manganese as Mn	IS 3025(P) 59–2006 RA2017	BDL	0.1 mg/l	
Cadmium as Cd	IS 3025(P) 41–1992 RA2014	BDL	0.003 mg/l	
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l	
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	32	Absent	
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent	

Note: BDL – Below Detection Level

For Poluchem Laboratories (P) Ltd.

\* End of the report

Authorized sign

The above results are related only to the sample submitted for analysis. eport shall not be reproduced excep in full, without the written approval of the laboratory.

# Photographs showing EC Details displayed



Noise Level Monitoring Reports



### POLUCHEM LABORATORIES (P) LTD. CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY

#### PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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#### ACCREDITED BY KSPCB AS "A" GRADE LABORATORY

#### TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/9425/2023			
, *	Date of issue:	23/04/2023			
Mr. Shiju Thomas	Mr. Shiju Thomas Date of monitoring 20/04/202		023		
Pallivathukkal House Chilavu Post Thodupuzha	Monitoring Location	Quarry Owned by Mr. Shiju Thomas Survey No: 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt, 3546/1-1 pt Village: Alakode Taluk: Thodupuzha District: Idukki, Kerala			
	Sample Description	Ambient Sound Level	6		
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT		
06.00 Hrs	44.8 dB (A)	23.00 Hrs	35.5 dB (A)		
07.00 Hrs	48.5 dB (A)	00.00 Hrs	36.1 dB (A)		
08.00 Hrs	49.4 dB (A)	01.00 Hrs	36.9 dB (A)		
09.00 Hrs	50.4 dB (A)	02.00 Hrs	37.7 dB (A)		
10.00 Hrs	51.9 dB (A)	03.00 Hrs	38.3 dB (A)		
11.00 Hrs	54.4 dB (A)	04.00 Hrs	38.8 dB (A)		
12.00 Hrs	51.6 dB (A)	05.00 Hrs	39.1 dB (A)		
13.00 Hrs	49.6 dB (A)				
14.00 Hrs	49.3 dB (A)				
15.00 Hrs	46.5 dB (A)				
16.00 Hrs	44.8 dB (A)				
17.00 Hrs	44.1 dB (A)				
18.00 Hrs	42.9 dB (A)				
19.00 Hrs	41.9 dB (A)				
20.00 Hrs	39.5 dB (A)				
21.00 Hrs	37.3 dB (A)	LDay.	49.9 dB (A)		
22.00 Hrs	36.4 dB (A)	LNight	37.5 dB (A)		

Limits: Industrial Area Day Time-75dB(A), Night Time-70dB(A), Commercial area Day Time-65 dB(A), Night Time 55dB(A), Residential area Day Time -55 dB(A), Night Time -45dB(A), Silence zone day time-50dB(A), Night time-40dB(A)

Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

\*End of the Report \*

SREEJA RAMESH QUALITY MANAGER POLUCHEM LABORATORET PRUIP

For Poluchem Laboratories (P) Ltd.

Authorized Signatory



Panchayath License





ലൈസൻസ് നമ്പർ-എ6-558/2022(2)

തിയതി-30/03/2022

#### ആലക്കോട് ഗ്രാമപഞ്ചായത്ത്

1994 ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994 ലെ 13) 232,233,234,254 എന്നീ വകുപ്പുകളും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും അനുസരിച്ചു വ്യവസായങ്ങൾ ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ സംരഭക പ്രവർത്തനങ്ങൾ മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്ക് നൽകുന്ന

#### ലൈസൻസ്

1 10	
ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ഷിജു പള്ളിവാതുക്കൽ (H) ചിലവ് പി.ഒ തൊടുപുഴ
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	മരിയ ഗ്രാനൈറ്റ്സ് ,ഇഞ്ചിയാനി
ലൈസൻസ് പ്രവർത്തനങ്ങൾ	പാറപൊട്ടിച്ച് വിൽപ്പന നടത്തുന്നതിന്
വാർഡ് നമ്പരും, കെട്ടിട നമ്പരും, വില്ലേജ്, സർവ്വേ നമ്പർ	IX. - での白にあららー - 294/1, - 294/2,295/5,295/6,296/2,356/1-1
ലൈസൻസ് കാലയളവ്	01/04/2022മുതൽ 31-03-2023 വരെ
ഈടാക്കിയ ലൈസൻസ് ഫീസ്	ഫീസ് –15000/– തൊഴിൽനികുതി –2500/– എച്ച്.പി –4000/
	ആകെ = 21500/-
രസിത് നമ്പർ,തിയതി	121010101888,121010101889 30/03/2022
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ	<ol> <li>കേരള സംസ്ഥാന മലനീകരണ നിയന്ത്രണ ബോർഡിന്റെ സർട്ടിഫിക്കറ്റ്</li> <li>പെട്രോളിയം &amp; എക്സ്പൊളോസീവ് സർട്ടിഫിക്കറ്റ്,</li> <li>മെനിംഗ് &amp;ജിയോളജി വകുപ്പിൽ</li> </ol>
SANNA PANCHANATA	നിന്നുള്ള കാറി ലീസ് സർട്ടിഫിക്കന്റ് 4)തൊടുപുഴ താലൂക്ക് സർവ്വയെറുടെ സർവ്വേ മാപ്പ് 5)ജില്ലാ EIAA- ഇടുക്കിയുടെ സർട്ടിഫിക്കറ്റ്
A SE	



#### ലൈസൻസ് താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു

- കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലോകളും അനുസരിച്ചു പ്രവർത്തിക്കേണ്ടതാകുന്നു.
- തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോ/സെക്രട്ടറി അധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി സൗകര്യം നൽകേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ലൈസൻസ കാണിക്കേതുമാണ്.

 ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നവോ ആ സ്ഥലത്ത് എല്ലാവരും കാണത്തക്ക വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും, ലൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടതാണ്.

- പഞ്ചായത്തിൽ നിന്നും അനുവാദം ലഭിച്ചശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും തൊഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
- 5. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാക്കാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വൃപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണ പദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
- ഒരോ പ്രവർത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേണ്ടതാണ്.
- 7. ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കുകയോ ചെയ്യുന്ന ചപ്പുചവറോ, മൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥമോ ശേഖരിച്ച്, സെക്രട്ടറിക്ക് തൃപ്തികരമായ രീതിയിൽ നീക്കം ചെയ്യിക്കേണ്ടതാണ്.
- ഏതെങ്കിലും തരത്തിലുള്ള തൂക്ക് രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ പകർച്ച വ്യാധികളോ ഉള്ള യാതൊരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ പാടില്ലാത്തതാകുന്നു.
- 40 മൈക്രോണിൽ കുറവുള്ള പ്ലാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ ശേഖരിക്കുകയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല.
- ന്ഥാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേതാണ്.20 സീറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റെസ്റ്റോറന്റുകൾക്കും ടോയ്ലറ്റ് സൗകര്യം ഏർപ്പെടുത്തേണ്ടതാണ്.
- 11. ലൈസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുവരുകളുടെ അകവശത്തിന്റെ ഏതൊരു ഭാഗവും മേൽപറഞ്ഞ പരിസരത്തിലുള്ള തറയുംനടപ്പാതയും അവിടെ തെറിച്ചുവീഴാനിടയുള്ള ഏതെങ്കിലും ദ്രാവകമോ, മാലിന്യമോ, ചപ്പുചവറോ, അസഹ്യവും, ഉപദ്രവകരവുമാഏതെങ്കിലും പദാർത്ഥമോ അവിടെ ലയിക്കുന്നത് തടയത്തക്കവിധം എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് നിലനിർത്തേതാണ്.
- ലൈസൻസി മേൽപറഞ്ഞ സ്ഥലത്തോ, പരിസരത്തോ അതോടു ചേർന്നോ ഉള്ള ഏതൊരു ഓവുചാലും, അഴുക്കുജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേടുപാട് തീർത്ത് വയ്പിക്കേണ്ടതാണ്.
- 13. തൊഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായും സാംക്രമികരോഗാണുക്കൾ ഉണ്ടാക്കാത്ത വിധത്തിലും പൊതുജനോപദ്രവമാകാത്ത വിധത്തിലും വൃപാരത്തിനു വച്ചിട്ടുള്ള ഭക്ഷണപദാർത്ഥങ്ങൾ ഈച്ച, അണുക്കൾ, പൊടി മുതലായവയുടെ ശലൃം ഉണ്ടാകാത്ത വിധത്തിലും സൂക്ഷിക്കേണ്ടതാണ്.
- ഒരോ പ്രവർത്തിദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വൃത്തിയാക്കേതാണ്.
- നിരോധിത ഉൽപന്നങ്ങളായ പാൻമസാല, ഗുഡ്ഖ തുടങ്ങിയവ സംഭരിച്ചുവയിക്കുവാനോ വിൽക്കുവാനോ പാടില്ല.
- ബാലവേല അനുവദിക്കാൻ പാടില്ല.
- 17. പൊടിപടലങ്ങൾ നിയന്തിക്കുന്നതി്നായി സമയാസമയങ്ങളിൽ വെള്ളം നനയ്ക്കണം.
- സ്ഫോടന സമയത്ത് ചീളുകൾ ദൂരേയ്ക്ക്തെറിച്ച് വീഴാതിരിക്കാൻ മണൽ ചാക്കുകൾ അടുക്കി ആവശ്യമായ സുരക്ഷ ഒരുക്കണം.
- 19. സ്ഫോടന<sup>്</sup> സമയത്തിന് മുൻപ് സമീപവാസികളെ അറിയിക്കുന്നതിനായി സൈറൺ മുഴുക്കണം.

- സ്ഫോടന സമയവും,എണ്ണവും മറ്റും പൊതുജനങ്ങൾ കാണത്തക്കവിധം എഴുതി പ്രദർശിപ്പിക്കണം.
- കോറിയിലേയ്ക്കുള്ള റോഡുകളിൽ വാഹനം വാഹനം ഓടി പൊടിപടലങ്ങൾ പറക്കാതിരിക്കാൻ വെള്ളം നനയ്ക്കണം.
- 22. ജീവനക്കാർക്ക് ആവശ്യമായ പ്രഥമ ചികത്സ സംവിധാനങ്ങൾ പ്രാഥമികാവശൃങ്ങൾക്കുള്ള ടോയ്ലറ്റ്കളും ക്രമീകരിക്കണം.
- 23. ഇതര സമസ്ഥാന തൊഴിലാളികളെ ജോലിക്കായി നിയോഗിക്കുമ്പോൾ അവരുടെ വിവരങ്ങൾ പി.എച്ച്.സിയെ രേഖാമൂലം അറിയിക്കണം.
- 24. Blasters Certificate ലൈസൻസ് ഉള്ള വൃക്തികളെകൊണ്ട് മാത്രമേ പാറപ്പൊട്ടിക്കുവാൻ പാടുള്ളൂ
- 25. ലൈസൻസിനായി സമർപ്പിച്ചിട്ടുള്ള അപേക്ഷയോടൊപ്പം ഹാജരാക്കിയിട്ടുള്ള വിവിധ വകുപ്പുകളുടെയും,ബോർഡുകളുടെയും നിരാക്ഷേപ സാക്ഷ്യപത്രങ്ങളിൽ രേഖപ്പെടുത്തിയിട്ടുള്ള വ്യവസ്ഥകളും നിബന്ധനകളും പാലിച്ച് പ്രസ്തുത സർവ്വേ നമ്പരുകളിൽ മാത്രം കാറി നടത്തേണ്ടതാണ്.
- 26. മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ ലംഘനം ഈ ലൈസൻസ് റദ്ദ് ചെയ്യപ്പെടുന്നതിന് കാരണമാകാവുന്നതാണ്.
- 27. കാലാവധി തീരുന്നതിന് 30 ദിവസം മുമ്പായി ലൈസൻസ് പുതുക്കുന്നതിന് അപേക്ഷ സമർപ്പിക്കേണ്ടതാണ്

\$ \( \text{(0.00} \) \( \text{(0.00)} \) \( \text{(0.00)

സെക്രട്ടറി

ആലക്കോട് ഗ്രാമപഞ്ചായത്ത്

രാജമോഹനൻ പി.എസ്.

സെക്രട്ടറി

ആലക്കോട് ഗ്രാമപഞ്ചായത്ത് ടൂക്കി ജില - 655 568 കലത്താത്

ഇടുക്കി ജില്ല - 685 588, കലയന്താനി പി.ഒ. ഫോൺ : 04882 - 276246, മൊ. 9496045061



Explosive License

भारत सरकार। Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोट्क सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor CSEZ पी.ओ.कक्कानाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

संख्या (No.): E/SE/KL/22/95(E93346)

दिनांक (Date): 08/03/2021

सेवा में | Te:

Shri Shiju Thomas,

Pallivathukkal House, Chilavu P.O., Thodupuzha, Town/Village - Thodupuzha District-IDUKKI, State-Kerala, Pincode - 685588

विषय:

Survey No.Block No.32, Sy. No.589, ग्राम Alakkode, जिला IDUKKI, राज्य Kerala में मेसर्स Shri Shiju Thomas द्वारा विस्फोटक के मैगजीन में उपयोग् के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SE/KL/22/95(E93346) के संशोधन संदर्भ में।

(विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन)

Subject:

Possession for Use of of Explosives from magazine situated at Survey No.: Block No.32, Sy. No.589, Alakkode, Dist. IDUKKI, Kerala -Licence No.: E/SE/KL/22/95(E93346) granted in

Form LE-3 of Explosives Rules, 2008 -

( Amendment of Quantity of Explosives/Monthly Purchase Limit).

महोदय। Sir.

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 01/03/2021 का संदर्भ ग्रहण करें। Please refer to your letter no. Nil dated 01/03/2021.

अनुज्ञप्ति संख्या E/SE/KL/22/95(E93346) विस्फोटक की मात्रा / मासिक खरीद सीमा में परिवर्तन का उटावावा में यथा संशोधित कर भेजी जा रही है।

The Licence No.: E/SE/KL/22/95(E93346) is forwarded herewith duly amended in respect of followings; Quantity of Explosives/Monthly Purchase Limit

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;

संख	या विस्फोटक	वर्ग	प्रभा	गउप-	क्षमता	इकाई
No	Explosive(s)	Class	Div	प्रभाग Sub Div	Capacity	
1	Nitrate Mixture	2	0	0	100	Kg.
2	Safety Fuse	6	1	0	1500	Mtrs
3	Ordinary/Electric/Non Electric Detonators	6	3	0	3000	Nos.

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

Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]: 27 times as above.

यह अनुर्ज्ञाप्ते दिनांक 31 मार्च 2026 तक प्रवृत्त रहेगी।

This Licence shall remain valid till 31st day of March 2026.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोयटक 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

(आर.वेणुगोपाल | Dr. R. Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची सुद्ध विस्फोटक नियंत्रक DEPUIS CONTROLLER OF Explosives

प्रतिलिपि प्रेषित | Copy Forwarded to:

 District Magistrate, IDUKKI, Kerala with reference to his Noc No: E2-50159/2015/K Dis. Dated: 05/02/2016

Superintendent of Police, IDUKKI, 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)

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

## अनुज्ञाप्ते प्ररुप एल. ई.-3 | LICENCE FORM LE-3

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

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञप्ति

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

अनुज्ञप्ति सं. (Licence No.): E/SE/KL/22/95(E93346) वार्षिक फीस रुपए (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

Shri Shiju Thomas (अधिभोगी / Occupier : Shri Shiju Thomas), Pallivathukkal House, Chilavu P.O.,Thodupuzha, Town/Village - Thodupuzha, District-IDUKK1, State-Kerala, Pincode - 685588

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्तिधारी की प्रास्थिति | Status of licensee : Individual

 अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है। Licence is valid only for the following purpose. possess for use of **Nitrate Mixture, Safety Fuse, Ordinary/Electric/Non Electric Detonators,** - के उपयोग के लिए

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

क्र Sr. 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	100 Kg.
2.	Safety Fuse	6,1	0	1500 Mtrs
3.	Ordinary/Electric/Non Electric Detonators	6,3	0	3000 Nos.

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

27 times

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

 निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पृष्टि होती है।
 The licensed premises shall conform to the following

रेखाचित्र क्र. (Drawing No.) E/SE/KL/22/95

: (E93346) दिनांक (Dated) 08/03/2021

drawing(s): .

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

Survey No. Block No.32, Sy. No.589 , ग्राम (Town/Village) : Alaklyter थाना (Police Station) : Thodupuzha

जिला (District) दूरभाष (Phone) IDUKKI 9447522690 राज्य (State) इ. मेल (E-Mail) Kerala पिनकोड (Pincode) फैक्स (Fax)

685588

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। The licensed premises consist of following facilities.

G(Sl.No.837 & 838) & T (Sl. No.1287) type three : portable magazines fabricated by M/s. Nobel Explosives, Kadayirupu, Ernakulam.

- 8. अनुज्ञप्ति समय समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों के अधीन रहते हुए अनुदत्त की जाती है। The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
  - उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सित्रमीण संबंधी और अन्य विवरण दर्शित करते हुए¶□ Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

अनुज्ञप्ति प्राधिकारी व्दाररा हस्ता.क्षरित इस अनुज्ञप्ति की शर्ते और अतिरिक्ति शर्ते।
 Conditions and Additional Conditions of this licence signed by the licensing authority.

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

9. यह अनुज्ञप्ति तारीख 31 मार्च 2021 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March

यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित

विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत 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 - 05/04/2016

उप मुख्य विस्फोटक नियंत्रक | Dy. Chief Controller of **Explosives** Ernakulam

## Amendments:

Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 28/04/2017

Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 14/09/2017

Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 20/02/2020 Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 28/01/2021

Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 08/03/2021 मुख्य विस्तृतिक नियंत्रक

नवीनीकरण के पृष्ठांकन के लिए स्थान Space for Endorsement of Renewal Deputy Chief Controller of Explosives

एरनाकुलम Ernakulam

नवीकरण की तारीख	समाप्ति की तारीख	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Date of Renewal	Date of Expiry	Signature of licensing authority and stamp
08/03/2021	31/03/2026	Sd/- Dy. Chief Controller of Explosives, Ernakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध

Statutory Warning: Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

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

### (सेट VIII | Set VIII)

मैगजीन 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 व्दारा प्रदान किए जाने वाले अनुज्ञप्ति सं. E/SE/KL/22/95(E93346) की शर्तें निम्नलिखित हैं ।

The following are the conditions of licence number E/SE/KL/22/95(E93346) 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 सामर्थ्य 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 प्रयुक्तर होने वाली मैगजीन अनुसची III और अनुज्ञप्ति के उपाबंध में विनिर्दिष्ट सरक्षा दूरी बनाए

The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to

the licence.

मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञप्ति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबध्द आधान 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 तौलने तथा पैक करने का कार्य मैगजीन 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 मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोडकर, परस्पंर पुथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटकं तक न पहुंच सके : परंत -

(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पलीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पलीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थायन के रखे जा सकते हैं। (ड) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले 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 land 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 मेंजुरी के मैंगजीन 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 मैगजीन 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 गुई मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञप्तिधारी अपने पास रखेगा

और मांग की जाने पर प्रेस्त्रत करेगा ।

(ii) जब कोई विस्फोटक मानक शुध्दता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लीअसरीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयक्त नहीं रह जाता है तो अनज्ञप्तिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मख्य नियंत्रक या विस्फोटक नियंत्रक जारी

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

(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.

मैगजीन के भीतरी भाग या उसमें लगी बैंचो, 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 बेंचे, शैल्फें 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 विरूध्द सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्येकर नहीं होगा जिसमें वर्ग 6 (गोला ब्रारूद) प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है ।

> उन नुख्य विस्फोटक नियंत्रक Deputy Chief Controller of Explosives एरनाकुलम Ernakulam

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

9. यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञाप्तिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञप्तिधारी व्दारा पश्चात्वर्ती प्रत्येक परीक्षण के लिए तब तक दी

जाती रहेगी जब तक कि परीक्षण अधिकारी तिडत 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 प्रभार्य

परंतु यह और कि यदि दो या अधिक तड़ित चालक एक ही मैगजीन से संबध्द हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तिडत 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

10. उपयुक्त तथा जेब रहित कार्यकरण वस्त्रों , उपयुक्त जूतों के प्रयोग व्दारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों व्दारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुोएं 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 :

पूरंतु इसू 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 fie, 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.
अनुज्ञप्तिधारी प्ररूप आर.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके व्दारा ऐसा करने की मांग की जाने पर स्टाक पुस्तक और अभिलेख प्रस्तुत करेगा। स्टाक 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. परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञप्तिधारी 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. मैंगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी ¶ □यिद किसी कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज्ञप्तिधारी इस बात की सूचना अनुज्ञापन प्राधिकारी को तरंत देगा ।

Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason

whatsoever.

मैंगजीन का अनुज्ञप्तिधारी 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. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए त्रंत दी जाएंगी।

Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुशापन 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

विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकजों 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. तिंडत चालकों की भूमि के लिए प्रतिरोघ यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओहा 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 झांड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी ।

छप मुख्य विस्कोटक नियंत्रक Deputy Chief Controller of Explosives एरपाक्तम Ernakulam

A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.

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.

किसीं 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.

विस्फोटकों के खाली पैकजों 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. \

अनुज्ञप्तिधारी 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

निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञत 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 सम्यकत: 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 अनुज्ञप्तिधारक को अनुज्ञात परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने की लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा । अनुज्ञाप्तिधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के

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 license shall execute the recommendations and report compliance within the period specified by such authority.

अनुज्ञिप्तिधारी मैग्जीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पलीते 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.

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 उपर्युक्त उल्लिखित सीमा 5 लॉग.10(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. आग या विस्फोट व्दारा दुर्घटना या नुकसान पटाखों की कमी या चीरी, अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी। तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और 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 :

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

> कृते उप मुख्य विस्फोटक नियंत्रक For Dy. Chief Controller of Explosives उप मुख्य विस्पाक्तमिकिमिकिसाam

Note :- This is system generated document does in other entire losives signature. Applicant may take printout for their records.

### 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/SE/KL/22/95(E93346) in form LE-3 granted to Shri Shiju Thomas, Pallivathukkal House, Chilavu P.O., Thodupuzha, Kerala-685588.

	Type of Structure(s)	afety dis	tance	es met
	Inside Safety Distances(ISD)		М	UM
1	Room or Workshop used in Connection with the Magazine		11	17
3	Any other Explosives Magazine or store House or Factory of the Applicant Magazine Office			17
	Middle Safety Distances(MSD)		-	
4	Magazine Keeper's or Chowkidar's Dwelling house			
5	Kailway 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		2	3
9 10	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Ch Gurudwara or other places of worships, Hospital, College, School or Factory River Embankment or Sea Embankment or Public Well	urch,		3
П	Reservoir or Bounded tank/rone 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 Working			
16	Shops, Market place, Public recreation and Sports Ground, College, Sc Hospital, Theater, Cinema or other Building where the public are accustome assemble	hool, ed to		
17	Factory			
8	Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or on inflammable or bazardous substances.	100		
	inflammable or hazardous substances	otner	4.4	
	Building or Works used for Storage and Manufacture of Explosives or of art which contain Explosives	icles	4:	,
	Aerodrome			
1	Furnace, Kiln or Chimney			
2	Quarry or mine pit head			
3	Power House or Electric Substation			
4	Wireless Station			
5	Warehouse or other Storage Building			
6	Any other Protected works			
	Overhead Electric lines			
7	Electric Power over head Transmission Lines above 440V		45	
13	Electric Power over head Transmission Lines upto 440V		15	
ŏ				

The

For Dy. Chief Controller of Explosives

उप मुख्य विस्फोटक नियंत्रक

#### Amendments:

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 28/04/2017

  Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 14/09/2017

  Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 14/09/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 20/02/2020
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 28/01/2021
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated: 08/03/2021



Soil Report

# POLUCHEM LABORATORIES (P) LTD.

CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY PALLATH BUILDING, N. KALAMASSERY P. O., ERNAKULAM - 683104

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### **TEST REPORT**

Client Name & Address	Certificate No:	PL/RT/SO/9526/2023
9	Date of issue:	23/04/2023
4	Date of monitoring	20/04/2023
Mr. Shiju Thomas Pallivathukkal House Chilavu Post Thodupuzha	Monitoring Location	Quarry Owned by Mr. Shiju Thomas Survey No: 294/1 pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt, 246/1-1 pt Village: Alakode Taluk: Thodupuzha District: Idukki,Kerala
	Sample Description	Soil

Parameter	Test Method	Results	
рН	IS 2720(Part25)-1973	5.88	
Electrical Conductivity	IS 14767:2000RA2016	103 μS/cm	
Potassium as K	EPA 3050 B	52 mg/kg	
Phosphorus as P	IS 10158 :1982 RA 2014	34 mg/kg	
Nitrogen as N	IS 14684: 1999 RA 2014	84 mg/kg	
Organic Carbon	IS2720(Part 22)-1972	95 %	
Calcium	EPA 3050 B	42 mg/kg	
Magnesium	EPA 3050 B	25 mg/kg	
Chloride	UEPA9212	112 mg/kg	
Sulphate	IS 2720 Part27:1977	94 mg/kg	

For Poluchem Laboratories (P) Ltd.

Authorized Signatory.

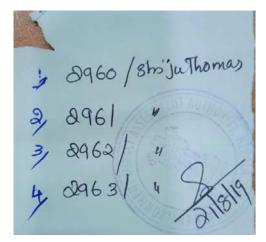
\*End of the Report \* A RAME \* COUNTY MANAGER

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

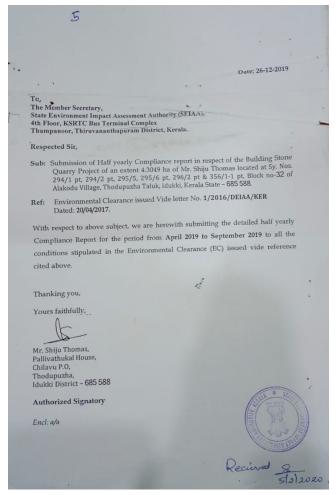
# Half yearly Compliance Report

Compliance Report Submission Details

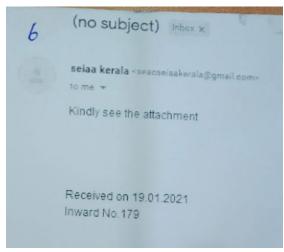
# FILE NOS./DETAILS OF HALF YEARLY COMPLIANCE REPORT SUBMISSION TO SEIAA, KERALA



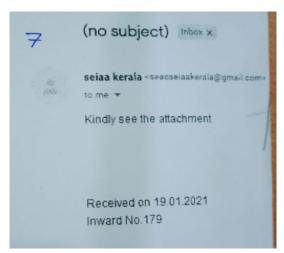
**COMPLIANCE 1, 2, 3, 4** 



**COMPLIANCE 5** 



**COMPLIANCE 6** 



**COMPLIANCE 7** 

# Half yearly Compliance Report

# SOLAR PANEL INSTALLED AT QUARRY SITE







SIGN BOARDS SHOWING SAFETY PRECAUTIONS TO BE TAKEN INSIDE THE QUARRY, WARNING BOARDS & OTHER INFORMATION DISPLAY BOARDS

## SAFETY PRECAUTIONS & INSTRUCTIONS TO WORKERS









## SAFETY PRECAUTIONS & INSTRUCTIONS TO WORKERS/DRIVERS









# Half yearly Compliance Report

# TOP SOIL WITH OVERBURDEN DUMP LOCATION

# TOP SOIL WITH OVERBURDEN DUMP LOCATION

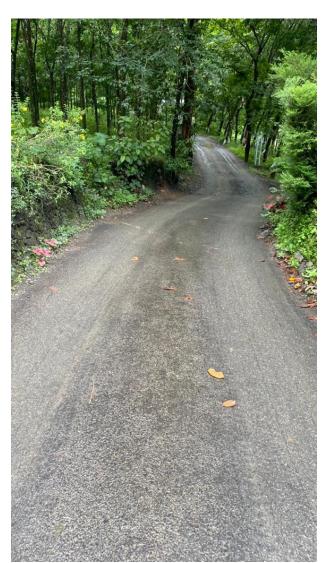






# Half yearly Compliance Report

# NEWLY TARRED APPROACH ROAD TO THE QUARRY





# Half yearly Compliance Report

# INSPECTION REPORT BY MoEF&CC



## भारत सरकार / GOVERNMENT OF INDIA

## पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय / MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE एकीकृत क्षेत्रीय कार्यालय, बेंगलुरु / INTEGRATED REGIONAL OFFICE, BANGALORE

4<sup>th</sup> Floor, E & F- Wings, Kendriya Sadan, 17<sup>th</sup> Main Road, II Block, Koramangala, Bangalore- 560 034

E-File No. 12.1/DEIAA/42/KER/ \5

14.03.2023

To

The Member Secretary,
State Environmental Impact Assessment Authority (SEIAA), Kerala,
K.S.R.T.C Bus Terminal Complex,
4th Floor, Thampanoor,
Thiruvananthapuram - 695 001
(E-Mail: seacseiaakerala@gmail.com)

Sub: Inspection Report of a Building Stone Quarry Project of Shri. Shiju Thomas (Idukki District)

Sir,

Please find attached Inspection Report of a building stone quarry of Shri. Shiju Thomas (Idukki District) who have obtained Environmental Clearance (EC) from District Environmental Impact Assessment Authority (DEIAA), Kerala for a building stone quarry over an extent of 4.3049 Ha located in Alakodu Village & Panchayat, Thodupuzha Taluk, Idukki District, Kerala vide EC No. 1/2016/DEIAA/IDK/KER dated 20.04.2017.

- 2. This project was inspected by the undersigned on 28.01.2023 and on the day of inspection, it was noted that QUARRY WAS IN OPERATION PROJECT PROPONENT HAS A VALID EC TILL 20.04.2023.
- 3. This issues with the approval of the Competent Authority.

Yours faithfully,

Dr. Murali Krishna

Additional Director (S)/ Scientist-E

### Copy for Information and Further Necessary Action:

- 1. The Member Secretary, Kerala State Pollution Control Board (KSPCB), Pattom P.O., Thiruvananthapuram-695 004. (E-mail: ms.kspcb@gov.in)
- Shri. Shiju Thomas, Pallivathukkal House, Chilavu Post, Thodupuzha Taluk, Idukki District, Kerala-685 588

Dr. Murali Krishna

Additional Director (S)/ Scientist-E

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# GOVERNMENT OF INDIA Ministry of Environment, Forest & Climate Change (Integrated Regional Office, Southern Zone) Bangalore-560 034

### INSPECTION REPORT

#### E-File No. 12.1/DEIAA/42/KER/

1	Name of the project	Environmental Clearance for a Building Stone Quarry Project of Shri. Shiju Thomas in Survey No.294/1 (P), 294/2 (P), 295/5, 295/6 (P), 296/2 (P) & 356/1-1 (P), Block No-32, Alakodu Village, Thodupuzha Taluk, Idukki District, Kerala in an area of 4.3049 Hectares	
2	Environmental Clearance Details	EC No. 1/2016/DEIAA/IDK/KER dated 20.04.2017.	
3	Location: District & State / UT	Alakodu Village, Thodupuzha Taluk, Idukki District, Kerala	
4	Address for correspondence:	Shri. Shiju Thomas Pallivathukkal House, Chilavu Post, Thodupuzha, Idukki District, Kerala- 685 588	
5	Date of site visit for this report	28.01.2023	

#### BRIEF ON THE PROJECT ALONG WITH THE PRESENT STATUS:

Building stone quarry project of Shiju Thomas have obtained Environmental Clearance (EC) from the District Environmental Impact Assessment Authority (DEIAA), Idukki, Kerala on for quarrying of 59510 CUM (1,48,775 TPA) of building stone from an area of 4.3049 hectares of land vide EC No. 1/2016/DEIAA/IDK/KER dated 20.04.2017 for 5 years and the project proponent has a valid EC till 20.04.2023 (after availing one-year covid-19 extension). Since the project authorities are desirous of seeking an extension/re-validation of their EC from SEIAA, Kerala and accordingly have requested for issue of a Certified Compliance Report (CCR) from this office.

This project site was inspected by the undersigned on 28.01.2023 and during the inspection, it was noted that the quarry was in operation and project authorities have obtained permissions from other relevant agencies like Consent to Operate (CTO) from Kerala State Pollution Control Board (KSPCB) and the same is valid till 19.04.2023; Permission from Alakodu Grama Panchayat and the same is valid till 31.03.2023; Explosives License from PESO and the same is valid till 31.03.2026; Mining lease from Directorate of Mining and Geology, Kerala and the permission is valid till 09.05.2029. Further, it is also to note that the responsibility for ensuring compliance to these EC conditions is vested with concerned local enforcement agencies like District Collector, DMG, KSPCB etc. under various Acts like Environment (Protection) Act, 1986, Air Act, 1981, Water Act, 1974 etc. Based on the documents made available during and after the inspection for establishing compliance to EC conditions by the project authorities and as verified during the physical inspection of the project site, an inspection report is prepared detailing point wise compliance to EC conditions as below:

ch. Muali krischa

S. No	EC Condition	Status of Compliance	
SPECIF	FIC CONDITIONS		
1	Boundary pillars should be numbered and fixed in the lease area as per the approved mining plan.	During inspection, it was seen that boundary pillars were appropriately numbered and fixed and the same needs to be specifically ensured by officials of DMG and to confirm whether the same is as per approved mining plan or not.	
2	Fencing with barbed wires should be provided all along the boundary of the lease area except the part needed for vehicular traffic	During the inspection, it was noted that PA has erected fencing with barbed wire of 4 feet, all around the quarry lease area except the part needed for vehicular movement as per MMR 1961, Regulation No. 177 to prevent accidental fall of animal/ human into quarry. PA informed that all the permanent boundary pillars are maintained intact and during inspection the fencing was seen all around the lease area and permanent markings and pillars were found to be intact.	
		BP3.  88.3  99.4  51.2  50.4  1.00  80.4  1.00  80.4  1.00	
	Fig 1-5: Fencing around quarry le		
3	The boundary between the Government surplus land in Survey number 356 on the south-eastern side of the lease area and applied lease area must be clearly demarcated.	During inspection, it was seen that the boundary between the Government surplus land in Survey number 356 on the south-eastern side of the lease area and applied lease area are clearly demarcated.	
4	There should not be any further quarrying in the already quarried pit as the depth of the pit has already reached more than 20 meters at present. The quarried pit should be retained as rainwater storing site.	During inspection, it was seen that PP has developed a rainwater harvesting pit of already excavated and abandoned quarry.	
5	There should not be any further quarrying in the buffer zone area on the eastern side of the lease area where already carried out as per earlier permits.	Reportedly, PP is complying with this EC condition which would be specifically ensured by the officials of the DMG.	
6	A greenbelt should be maintained all around the quarry by planting trees	As per the records made available, it was noted that PP has planted about 920 number of tree saplings during the period 2017-2022 on the sides of the approach road and all around the quarry area. During the physical verification, it was noted that PA has planted avenue trees along the sides of the approach road which mainly included Mango, Rubber, Jackfruit, Rambutan, Jamun, Mahagony etc. Based on discussions it was ascertained that the average survival rate of these avenue plantations is about 80% only and accordingly, PA has been advised to	

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undertake avenue plantation preferably with native and indigenous plant species to increase survival rate. PP has been advised to plant more number of trees on the approach road in coming monsoon season and to maintain record of plantation also.





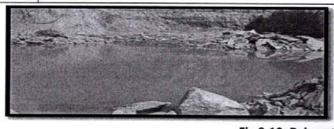


Fig 6-8: Greenbelt / Plantation Area

7 The ultimate depth of the quarry must be limited to 20 meters, from the ground level as per the mining plan. PP agreed to comply with this EC condition and based on verification of records like Mining Plan, PA has not reached the ultimate depth level and has not exceeded depth beyond 20 Mtrs. The work is progressing on the top elevation of the mine lease area, and it was observed that currently, PP is working at a height of about 76 meters following the top to bottom approach from 103 meters and as per Mining plan. However, the compliance to this EC condition would be specifically monitored by the officials of DMG.

There should be some rainwater harvesting structure at the north-eastern valley part of the quarry lease area

During the inspection, it was noted that PA has constructed a rainwater harvesting pond for storage of rainwater. The approximate dimension of the pond is Length=12 Mtrs; Width=10 Mtrs and Depth=3 Mtrs with approximate holding capacity of 1000 KLD. It was informed by the PP that this stored rainwater is being used for dust suppression of haulage roads and internal roads as well as for greenbelt/ avenue plantation.



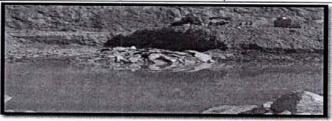


Fig 9-10: Rainwater Harvesting Pit

The water draining from the quarry to the outside area must be after clearing the sediments and impurities by passing through one or more settling tanks.

During the inspection, it was found that project proponent has constructed garland drains along the sides of the internal roads (about 350-400 Mtrs) and have constructed about 1 settling ponds/ check-dams and 1 desiltation ponds as part of storm water management system. It was noted that all the rain/storm water is allowed to pass through check dams/ de-siltation traps and clarified water is being let out to be collected in the rainwater harvesting pond. It was noted that de-siltation

ch. Mualilarischa

		ponds are provided to clarify the storm water for avoiding silt from reaching the main streams and PP has been directed to ensure desiltation every year before the onset of Monsoon.
10	Dust suppression mechanisms using sprinklers must be established in the quarry	During the inspection, it was noted that PA has installed 15 number of stationary water sprinklers for dust suppression and has also deployed 2 water tankers (1x 4000 L and 1x 2000 L) to contain dust emission.
		DANGER
	Fig 11-13: Sprinklers for Dust Suppression ar	nd Fig 14-16: Approach and Internal Roads
11	The approach road to the quarry must be tarred using metal	During the inspection, it was noted that all access and approach roads to the quarry were tarred and maintained in good condition.
12	It is instructed to only remove topsoil up to a maximum depth of 2m while quarrying	PP informed that compliance to this EC condition is being done and topsoil
GENERA	AL CONDITIONS	
1	Rainwater harvesting to collect and utilize the entire water falling in land area should be provided.	Same as detailed in Specific Condition No.8
2	affidavit filed by the proponent should be formed andmade functional.	Based on verification of records, it was noted that PA has established an Environment Monitoring Cell (EMC) and a hardbound register was also maintained for recording the deliberations of the EMC. As per records verified it was noted that EMC was headed by Mr. Shiju Thomas (Managing Partner). Verification of records indicated that the last meeting of the EMC was convened on 25.11.2022.
3	side of the tarred road and open parking areas, if any, including of approach road and internal roads.	Same as detailed in Specific Condition No.6
4	The project shall incorporate devices for solar energy generation and utilization wherever possible.	During inspection, it was found that PA has installed 0.5 KW solar panels near office building and near main gate. Upon discussion with PA, it was given to understand that

ch. Mudi Krischa

		since there were no specific number / items stipulated by SEIAA, Kerala in their EC, project authorities have erected only a solar panel of 0.5 KW (seen by the Inspecting Officer). PA has been suggested to enhance this number and to install Solar Street Lights near Magazine Storage Area and along the internal roads and to install roof top solar panel for office room.
5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Same as detailed in Specific Condition No.10
6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	Based on verification of records (2017 EC), it was noted that the life of the mine is 12 years and mining lease is valid till 09.05.2029 (executed on 10.05.2017) and PA assured to comply with the same at their own cost as per mining plan
7	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 over burden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.	and scheme of the mine duly approved by District Geologist on 05.01.2022. As part of implementation of Ecorestoration, it was noted that PP have been regularly undertaking plantation, ambient air quality monitoring, noise monitoring, have erected stationary water sprinklers etc. As per the Mine Plan duly approved by District Geologist, it is noted that more than 10% of the total excavated pit area has been earmarked for water storage and the remaining area to be reclaimed with indigenous plant species. It is also noted that there is no Specific Condition stipulated in the EC relating to reclamation of pit.
8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.	Based on the perusal of records made available, it was noted that PP has spent about Rs. 49,37,442/- during the period 2017-22. It was noted that PP is maintaining all the bills/ vouchers/ receipts could not be fully ascertained due to non-availability at the site during inspection. PP has been advised to keep a separate book with full details of the CSR amount. It was noted that PP has spent the above amount for various social welfare measures like education, health, community welfare measures etc. in and around the concerned village panchayat.
9	Barbed metal wire fencing around the mining area shall be provided with a height of not less than 4 ft so that falling of animals / human / belongings / dumping of garbage etc. does not happen.	Same as detailed in Specific Condition No.1
10	Warning alarms indicating the time of blasting (to done at specific timings) has to be arranged as per stipulations of Explosive Department.	During inspection, it was seen that project proponent have erected appropriate display boards near the entrance and office indicating the quarry operation timings as 6.00 AM to 6.00 PM (General Shift Timings) and blasting timings as 11.00 AM to 12.00 PM and 3 PM to 4 PM. Other display and sign boards like warning signages, danger boards etc. were also seen during inspection.

ch. Piwalikristna



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Fig 17-20: Warning Alarm, Blasting Timing, Magazine Area and Danger Signage Boards

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

Based on verification of records, it was noted that PA has obtained Consent to Operate (CTO) from Kerala State Pollution Control Board and the same is valid till 19.04.2023. Based on verification of Noise Monitoring reports conducted on 25.04.2022 by M/s. Poluchem Laboratories Private Limited (Accredited laboratory by KSPCB) all the noise monitoring values were found to be within stipulated norms of KSPCB. Verification of reports indicated the average day noise levels as 49.7 dB(A) and night noise levels as 37.6 dB(A) which are within the permitted levels of 75 dB(A) for daytime and 70d(B)A for night.

12 Quarrying activities should be limited to daytime as perKSPCB guidelines/specific conditions.

During inspection, it was noted that project authorities have erected display boards near the entrance and office indicating the quarry operation timings as 6.00 AM to 6.00 PM (General Shift Timings). However, no logbook / entry and exit registers were available to ascertain the exact time of entry and exit of workers. PA has been advised to maintain biometric attendance for workers also.

Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.

A licensed person should supervise/ control the blasting operations.

As per the records made available and as confirmed by the PP and Mines Manager, it was noted that PP uses NONEL (Non-Electrical Detonators) for blasting under the supervision of a competent and certified Second-Class Mines Manager (Mr. Hassain Pasha) as per regulations of Explosives Department and Director General of Mines Safety. Since the Mines Manager/ Foreman/Mate is the competent and responsible person for conduct of safe operations in the quarry, all quarrying operations including safe handling, storage of detonators, explosive materials are strictly done under his supervision and appropriate records like RE-3 and RE-5 are maintained as per statutory requirement of Explosives Department. It was noted that PA has appointed a Mining Mate for overseeing the quarry blasting operations as per regulations of Explosives Department and he also ensures mitigation measures for control of ground vibrations to arrest the fly rocks and boulders. Verification of daily stock registers indicated proper detailing about the quantity of material used for quarry operations.

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

Same as detailed in Specific Condition No.11

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

During the inspection, it was noted that over burden material and topsoil is kept within the premises to be used for the reclamation of mine pit as per mine closure plan in a separate place as specified by the District Geologist in cognizance with the duly approved Mining Plan/ Mine Closure Plan/ Reclamation Plan. Based on verification of records, it was noted that the life of the mine is for 12 years, and mining lease is valid up to 09.05.2029 and PP has agreed to comply with this EC condition during the closure of the mine.







Fig 21-23: OB and Topsoil Dumping Areas

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

During the inspection, it was noted that PA has maintained 4 benches in the quarrying pit. It was noted that all quarry operations are to be conducted as per the approved Mining Plan duly approved by the District Geologist. It was noted that officials of DMG inspects these quarries at regular intervals and conducts surveys to ensure safe conduct of mining operations within the permitted lease area and also as per duly approved Mining Plan and if any discrepancies like conduct of mining operations out of lease area or non-maintenance of buffer area or benches and extraction of additional quantity of material than permitted etc. are noted then immediately appropriate amount of penalties are levied and damages are recovered. However, the latest monitoring report of District Geologist is not available.

During physical verification, it was noted that about 4 benches have been made in the quarry by the PA and as per records examined and discussions held, it was noted that mining operations are currently conducted at a height of about 76 Mtrs above MSL and accordingly as per approved mining plan, it was informed by PA that few more benches could be created safely without touching the ground level (MSL) and as per approved mining plan, mining can be done till 50 Mtrs above MSL and the same would be ascertained by the officials of DMG.

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	Fig 24-25: Bench	nes in the Quarry
18	Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.	Reportedly, PA was using blasting mats of appropriate size to minimize the fly rocks during the blasting time and during inspection, mats were seen in the quarry operating pit near blasting shelter.
19	Maximum depth of mining from general ground level at site shall not exceed 10m.	Based on verification of records like Mining Plan, PA has not reached the ultimate depth level. Accordingly, as detailed in General Condition No. 17, PA has not reached the surface ground level and has not exceeded depth beyond 10 Mtrs. The work is progressing on the top elevation of the mine lease area. However, the compliance to this EC condition would be specifically monitored by the officials of DMG.
20	No mining operations should be carried out at places having a slope greater than 45°.	During physical inspection, it was noted that mining operations are not carried out at slopes greater than 45°.
21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	During physical inspection, it was noted that PP does not have a crusher unit in the quarry lease area.
22	The workers on the site should be provided with the required protective equipment such as earmuffs, helmet,etc.	Based on discussions held with few workers available at the site, it was noted that all the workers were provided with appropriate PPE's such as earmuffs, helmets, masks, shoes, and gloves etc. based on their work zone requirement during the operation of the quarry. During inspection, workers were found to be wearing PPE's.
23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Same as detailed in Specific Condition No.9







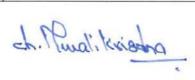




	Fig 26-29: Garland Drains and De-Siltation Ponds		
24	The transportation of minerals should be done in coveredtrucks to contain dust emissions.	During physical inspection it was noted that the trucks that were being used for transportation of minerals were covered with green mesh cloth and wetted to avoid dust emission during transportation.	
25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for theproject.	PA informed that during quarrying operations about 50 trees were cut and PA has planted about 920 tree saplings in and around the mine lease area. PP has been directed to ensure the survival of the plantation done and to do more avenue plantations during coming monsoon season and to maintain proper record of plantation on an annual basis regarding plantations and survival %.	
26	Disposal of spent oil from diesel engines should be asspecified under relevant Rules/ Regulations.	On the day of visit, it was noted that the spent oil generated from the DG sets were stored in closed barrel drums and PP informed that the same are being disposed through authorized recyclers duly approved by KSPCB.	
27	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.	During the inspection, it was noted that explosives are stored in an isolated location specified and approved by explosive department. It was also noted that PA is regularly maintaining relevant records like RE-3 and RE-5 as per PESO regarding the quantity of explosives received and their usage and the same is also monitored at regular intervals by Circle Inspector/ Station House Officer of the concerned area verifies the stock register periodically and appends his signature in the register certifying the safe storage and usage of explosives.	
28	A minimum buffer distance of 100 m from the boundaryof the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	On verification of EC, it is noted that the nearest habitation is about 104 Mtrs away from the lease area and no permanent structures seen within a vicinity of 100 m from the quarry lease area.	



29	100 m buffer distance should be maintained from forest-boundaries	During physical verification as seen and as per records maintained the total land area owned by the proponent is about 6.0 Ha and in that, lease, area is 4.30 Ha and no forest boundaries seen adjoining the lease area and during inspection it was seen that more than 100 Meters buffer distance maintained from the forest boundaries as majority of the adjoining lands were belonging to PP and were private patta lands only. Since No forest land acquired for quarry operations, no NPV also paid to Forest Department/Government.
30	Consent from Kerala State Pollution Control Board under water and air act(s) should be obtained before initiating mining activity	As per the records verified, it was noted that PA has obtained a valid Integrated consent to operate from KSPCB vide Consent No. PCB/ IDK/ ICO/85/2017 dated 31.07.2021 and the same is valid till 19.04.2023.
31	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent Authorities including that for blasting and storage of explosives.	Based on verification of records, it is noted that that the quarry was in operation and project authorities have obtained permissions from other relevant agencies like Consent to Operate (CTO) from Kerala State Pollution Control Board (KSPCB) and the same is valid till 19.04.2023; Permission from Alakodu Grama Panchayat and the same is valid till 31.03.2023; Explosives License from PESO and the same is valid till 31.03.2026; Mining lease from Directorate of Mining and Geology, Kerala and the permission is valid till 09.05.2029.
32	In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters /impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.	PA is aware of this EC condition and agreed to comply with the same.
33	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.	PA is aware of this EC condition and agreed to comply with the same.



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.

PA is aware of this EC condition and reportedly complying with the same.

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

As per the records verified, it was noted that PA has advertised regarding the grant of EC in two Newspapers namely The New Indian Express (English) and in Malayalam Manorama (Malayalam) on 25.04.2017.

A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat District Panchayat/ Municipality /Corporation /Urban Local Bodyand also to the Local NGO, if any, from whom suggestions representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.

Reportedly PA has shared a copy of the clearance letter to Alakodu Grama Panchayat and has also obtained permission for operation of the quarry vide letter No.6-558/2022(2) dated 30.03.2022 and is valid upto 31.03.2023. PA has uploaded the copy of the EC and Half Yearly Compliance Reports in their website at www.shijuthomas.in



Fig 30: Project Website and Uploaded EC and Compliance Reports

ch. Pualikrischa

37 The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt of India and also to the State Environment Impact Assessment Authority (SEIAA) office.

As per records verified, it is noted that PA is regularly submitting the half yearly compliance reports along with air, noise, water quality monitoring reports also to the Regional Office of MoEFCC at Bangalore by email and have also uploaded the same in their website along with periodical monitoring reports.

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

During the inspection, it was noted that a metallic display board of 3 ft x 3 ft with green background and yellow letters of Times New Roman which was clearly visible was found at the entrance of the quarry visible to the public.



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Fig 31-38: EC and Other Display Boards

The proponent should provide notarized affidavit During inspection, PA informed that an Affidavit was (indicating the number and date of Environmental Clearance proceedings) that all the conditions copy of the same to this office. stipulatedin the EC shall be scrupulously followed.

provided to SEIAA, Kerala. However, PA has not shared the

ch. Ruali kristna

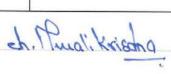
40	No shange in mining technology and seems of	DA is aware of this EC condition and several to complement
40	working should be made without prior approval of the SEIAA. No, further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	PA is aware of this EC condition and agreed to comply with the same. As per the production statement drawn through Kerala Online Mining Permit Awarding Services (KOMPAS) website, it was noted that PA has extracted a total quantity of 6,29,372 Tons of material during the EC period till 30.01.2023.
41	The Project proponent shall ensure that no natural water course and/or water resources shall be 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.	During inspection, no canal/ nala was seen passing within the quarry area.
42	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time totime by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emissions.	As per records verified, it is noted that PA is monitoring the quality of Ambient Air periodically from M/s. Poluchem Laboratories Pvt Ltd, and verification of records dated 25.04.2022 indicated all the values to be within stipulated norms. PA has been advised to increase the frequency of water sprinkling at loading and unloading areas. It was also noted during inspection that PA has installed 15 number of stationary water sprinklers for dust suppression.
43	The topsoil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation 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 to 45° The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	Same as detailed in General Condition No.16.
44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral, and OBdumps to prevent run off water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Same as detailed in General Condition No. 23

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45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul Road, loading and unloading points and transfer points-it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.	Same as detailed in General Condition No. 5 and 42.
46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haulroads, loading, and unloading and at transfer points should be provided and properly maintained.	Same as detailed in General Condition No. 5.
47	Measures should be taken for control of noise levels below 85 dBA in the work environment.	Same as detailed in General Condition No. 11
48	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	Same as detailed in General Condition No. 2.
49	The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	Same as detailed in General Condition No. 8
50	The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project Authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/ information/monitoring reports.	PA is aware of this EC condition and agreed to comply with the same.
51	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.	As per records available in office, no appeal has been received challenging the grant of EC to this project within stipulated period of 30 days from the date of grant of EC by SEIAA, Kerala.
52	Concealing the factual data or submission of false fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal ofthis clearance and attract action under the provisions of E(P) Act, 1986.	PA is aware of this EC condition and agreed to comply with the same.



53	The SEIAA may revoke or suspend the order for non-	PA is aware of this EC condition and agreed to comply with
	implementation of any of the specific or the implementation of any of the above condition is not satisfactory. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	the same.
54	The above conditions shall prevail not with-standing anything to the contrary, in consistent, or simplified, contained in any other permit license on the consent given by any other authority for the same project.	the same.
55	This order is valid for a period of 5 years, or the expiry date of mine lease period issued by Government of Kerala, whichever is earlier	
56	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to theland or project, in any court of law.	As per the information provided by PA, there were two Court Cases filed by the PP in Hon'ble High Court of Kerala vide WP(C) No. 16000 of 2021 and the same has been disposed vide its orders dated 09.08.2021 for revalidation of the EC till the life of the mine and another case on similar context vide WP (C) No. 17264/2022 which was disposed of vide orders dated 03.06.2022. The above information has been determined based on records furnished by PP and in case of any other cases or complaints/ Memos issued or reported, concerned local enforcement agencies are requested to ascertain the same and accordingly a copy of the inspection report is made available to concerned agencies.
57	The mining operation shall be restricted to above ground water table, and it should not intersect ground water table.	·
58	All vehicles used for transportation and within the mines shall have 'PUC certificate from authorized pollution taking center. Washing of all vehicles shall be inside the lease area.	On the day of inspection, quarry was in operation and vehicles seen transporting material with green cover mesh on the top of the vehicle to avoid dust emission. PA informed that they ensure PUC certificates for all vehicles that are deployed for transportation of minerals. Further, no wheel washing facility seen at the site and PA has been directed to comply to the same.
59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	No borewells seen during inspection and PA also stated that they are not drawing any groundwater and hence no permissions obtained.



60	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 reports to SEIAA	During inspections no nala seen in the mining lease area. Based on verification of half yearly compliance reports submitted to this office, it is noted that PA has been regularly monitoring the quality of surface water by a NABL/MoEF&CC recognized laboratory and the values in the analysis reports indicated to be within stipulated norms. The latest surface water analysis report dated 25.04.2022 carried out by Poluchem Laboratories Private Limited indicated all the values to be within stipulated norms.
61	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and corrective measures, if needed.	During inspection, First Aid Facility in the quarry area seen and based on records verified, it was noted that PA is undertaking medical check-ups of workers regularly and records are also maintained.

Dr. Murali Krishna Additional Director/ Scientist-E 14.03.2023

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