Date:05-07-2023

From,

R. KRISHNAMOORTHY Anju Nivas, Manakkara, Sasthamkotta, Kollam, Kerala.

To,

### MoEF Regional Office, Sothern Zone, Kendriya Sadan, 4th Floor, E & F Wing, II Block, Koramangala, Bangalore – 560 034

#### **Respected Sir/Madam**,

**Sub:** Submission of Half yearly compliance report in respect of R. KRISHNAMOORTHY Quarry project in re-survey nos. 166/2, 166/3, 166/4, 166/6 at Pattazhy Village, Pathanapuram Taluk, Kollam District, Kerala State- regarding

**Ref:** Environmental Clearance issued vide letter No. B/DEIAA/23743/17, DATED: 20-02-2018

With respect to above subject, I am herewith submitting the detailed half yearly Compliance Report for the period from **OCTOBER 2022 to MARCH 2023** to all the conditions stipulated in the Environmental Clearance (EC) issued vide reference cited above.

Thanking you

Yours faithfully

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**R. KRISHNAMOORTHY** 

Copy to: The Member Secretary, State Level Environment Impact Assessment Authority, 4th floor, KSRTC terminal complex, Thiruvananthapuram – 695 014

# COMPLIANCE REPORT FOR QUARRY PROJECT OF KRISHNAMOORTHY

SURVEY NOS	: 166/2,166/3,166/4,166/6
EXTENT	: 3.9342 HECTARES
VILLAGE	: PATTAZHY
TALUK	: PATHANAPURAM
DISTRICT	: KOLLAM
STATE	: KERALA

# ENVIRONMENTAL CLEARANCE NO. B/DEIAA/23743/17 DATED 20-02-2018

FOR THE PERIOD FROM OCTOBER 2022 TO MARCH2023

## **TABLE OF CONTENTS**

ITEM NUMBER	DESCRIPTION	PAGE NUMBER
Ι	About The Proponent	3
II	About The Project	
	Project Category	3
	Project Location	3
	Project Extent And Activity	3
	Project Description	3
III	Report Of Compliance	
	Compliance Of General Condition	4
IV	Annexures	
	Annexure 1 – EC Order	21
	Annexure 2- Corporate Environment Responsibility CER Details of	27
	Annexure 3 - Pollution certificate	33
	Annexure 4 – Explosive License	35
	Annexure 5 – Lab Report	42
	Annexure 6 – Environment Monitoring cell members	46
	Annexure 7-Panchayath License	47
V	Figures	
	figure - Boundary Pillars	4
	figure 2 – Access Road	6
	figure 3 – Rain water harvesting pit	7
	figure 4 – Boundary Indicators	8
	figure 5 – Blasting time	9
	figure 6 - Top Soil & Overburden	10
	figure 7 – Bench development / Mining facedevelopment	10
	figure 8 – staff with safety/protectiveequipment	11
	figure 9- covered truck with rock material	12
	Plate 10- Environmental clearance prominently displayed in a metallic board	15

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### **ABOUT THE PROPONENT**

Mr.R. Krishnamoorthy residing at Anju Nivas, Manakkara, Sasthamkotta, Kollam, Kerala operating a Granite (Building Stone) Quarry.

District Environment Impact Assessment authority (DEIAA) Kollam accorded Environmental Clearance No B/DEIAA/23743/17 dated 20-02-2018 to the quarry project in Pattazhy Village, Pathanapuram Taluk, Kollam District, Kerala State.

### **II. ABOUT THE PROJECT**

### a. Project Category:

The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.

#### **b.** Project Location:

i. Survey Nos : 166/2, 166/3, 166/4, 166/6 of Pattazhy Village, Pathanapuram Taluk, Kollam District, Kerala

The proposed project site falls within latitude and longitude value:

Latitude (N)	N 09º04'07.92" to N 09º04'16.69
Longitude (E)	E 76º48' 31.36" to E 76º48' 39.60

### c. Project Extent And Activity:

According to the mining plan the total mineable reserves of Granite Building Stone available in the proposed area for first five years is 10,25,000MT. Quarrying can be continued for another 10 years in the extent area of 3.9342 hectares

### d. Project Description:

The proposed Granite (Building Stone) quarry over an area of 3.9342 hectares is located in Pattazhy Village, Pathanapuram Taluk, Kollam District, Kerala. The proponent has obtained approval for mining plan to produce 10,25,000 MT of building stone for first five years.

### **REPORT OF COMPLIANCE**

### **GENERAL CONDITIONS**

ITEM NO	STIPULATIONS IN EC	STATUS OF COMPLIANCE
G-1	Mining operations should be carried out strictly as per the approved mining plan.	Mining operation is carried out as per the approved mining plan
G-2	The project proponent should provide proper fencing around the quarry thought the life of the mine.	Scrupulously followsthe directions contained.
G-3	The project proponent should clearly demarcate the Government land adjacent to the proposed area.	Scrupulously followsthe directions contained.

### <u>Figure-1</u>

Photographs showing boundary pillar in the project area



COMPLIANCE REPORT OF R. KRISHNAMOORTHY | 4

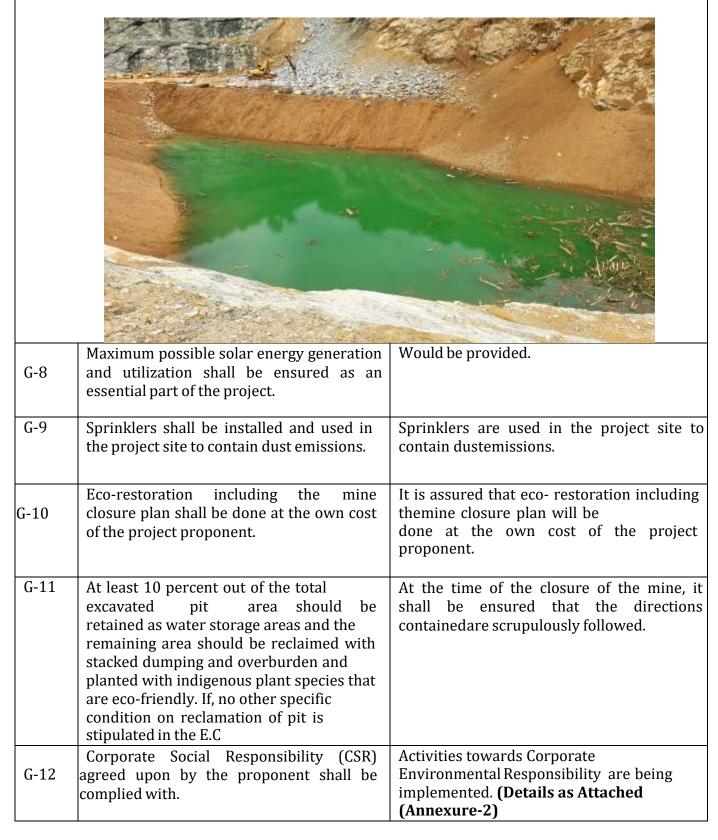
<u>III.</u>

	RB		
G-4	While issuing permit on the basis of this environmental clearance, the Geologist should ensure that no LC arrears/LC cases are pending against the project proponent	Scrupulously followsthe directions contained.	
G-5	The ultimate depth of quarrying should be limited to 80m above mean sea level.	Scrupulously followsthe directions contained.	

G-6	The proponent shall undertake maintenance of roads damaged by heavy loaded trucks.	Roads are maintained properly due to damagedcaused by heavy loaded trucks.
	<u>Figure-2</u>	
	Photograph showing access road to the projec	t area
G-7	Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.	Provision is made forstorage of rain water.
	Kindiy Ki di, unless other wise specified.	

### Figure: 3

Photograph showing rainwater harvesting pit



G-13	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Scrupulously followsthe directions contained
	Figure-4         Photograph showing details of bound         Image: Construction of the state of the sta	ary indicators (boards, stores, markings, etc.
G-14	Warning alarms indicating the time of blasting (to be done at specific timings)has to be arrang as per Stipulations of Explosive Department.	-

G-15	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Control measures on noise and vibration is as per KPSCB
G-16	Quarrying activities should be limited to day time as per KSPCB should be guidelines.	Quarrying activities is limited as per KPSCB guidelines.
G-17	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Scrupulously followsthe directions contained.
	Figure 5	
	BLASTING TIME 2.PM	
G-18	A       licensed       person       should supervise/control the blasting operations.	d       Scrupulously followsthe directions contained.
G-18 G-19	x x	
	supervise/control the blasting operations.         Access roads to quarry shall be tarred to contain dust emissions that may arise	contained. Scrupulously followsthedirections contained.
G-19	supervise/control the blasting operations.         Access roads to quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	contained.         Scrupulously       followsthe directions         contained.         Overburden is stacked in
G-19	supervise/control the blasting operations.         Access roads to quarry shall be tarred to contain dust emissions that may arise during transportation of materials.         Overburden materials should be managed	contained.         Scrupulously       followsthe directions         contained.         Overburden is stacked in         pre-determined site specified for the purpose



	Height of benches should not exceed 5	Height of the benches is maintained at
G-21	m and width should not be less than 5 m if	
	there is no mention is the mining	
	plan/specific conditions.	

### Figure : 7

Photograph showing bench development / Mining face development



COMPLIANCE REPORT OF R. KRISHNAMOORTHY | 10

G-22	Mats to reduce fly rock blast to a	Would be provided.
	maximum of 10 PPV should be provided.	
	Acoustic enclosures should have been	Scrupulously follows
G-23	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.	
	The workers on the site should be	The workers on the site is provided with
G-24	provided with the required protective	the required protective equipment such
	equipment such as ear muffs, helmet, etc.	as ear muffs, helmet, etc

### Figure 8

Photograph showing staff with safety/protective equipment



	Garland drains with clarifiers to be	Scrupulously followsthedirections
G-25	provided in the lower slopes around the	contained.
	core area to channelize storm water.	
	The transportation of minerals should be	Scrupulously followsthedirections
G-26	done in covered trucks to contain dust	contained.
	emissions.	

### Figure : 9

### Photographs showing covered truck with rock material



	The proponent should plant trees at least	Would be complained.
G-27	5 times of the loss that has been occurred	
	while clearing the land for the project.	
	Disposal of spent oil from diesel engines	Scrupulously followsthe directions
G-28	should be as specified under relevant	contained.
	Rules/Regulations.	
	Explosives should be stored in magazines	Scrupulously followsthe directions
G-29	in isolated place specified and approved by	contained.
	Explosive Department.	

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	A Minimum buffer distance of 50m from	Scrupulously followsthe directions
G-30	the boundary of the quarry to the nearest	contained
	dwelling unit or other structure not being	
	any facility for mining shall be provided.	
G-31	100m buffer distance should be maintained from forest boundaries.	Scrupulously followsthe directions contained.
G-32	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Scrupulously follows thedirections contained. <b>(Details as attached</b> <b>Annexure:3)</b>
G-33	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.	Scrupulously follows thedirections contained. (Details as attached Annexure-4)
G-34	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.	All the safeguard measures are done as per Environment (Protection)Act, 1986.
C-35	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.	Scrupulously follows thedirections contained.

in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall bein 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)	rst
(both the advertisement and the newspaper) shall bein 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)	
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)	
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available with the State Environment Impact Assessment Authority (SEIAA)	
Impact Assessment Authority (SEIAA)	
office and may also be seen on the website	
of the Authority at <u>www.seiaakerala.org.</u> 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 officeof this Authority as	
confirmation.	
C-37 A copy of the clearance letter shall be Scrupulously follows the directions	
sent by the proponent to concerned Grama contained. <b>(Details as attached</b>	
Panchayat / District Panchayat / Annexure-7)	
Municipality / Corporation / Urban Local	
Body and also to the Local NGO, if any,	
from whom suggestions / representations,	
if any, were received while processing the	
proposal. The Environmental clearance	
shall also be put on the website of the	
company by the proponent.	
C-38 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 Conditions are being complied	
copies as well as by email) and upload the with.	
Status of compliance of the stipulated EC	
conditions, including results of monitored	
data on their website. It shall	
simultaneously be sent to the respective	
Regional office of MoEI, Govt of India and	

	also to the State Environment Impact Assessment Authority (SEIAA) Office	
C-39	The details of Environmental Clearance	The conditions of Environmental
	should be prominently displayed in a	Clearanceare prominently displayed in a
	metallic board of 3 ft x 3 ft with green	metallic board.
	background and yellow letters of Times	
	New Roman font of size of not less than	
	40.Sign board with extent of lease area and	
	boundaries shall be depicted at the	
	entrance of the quarry, visible to the public.	

### <u>PLATE 10</u>

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



-40	The proponent should provide notarized affidavit (indicating the number and date	The proponent has provided notarized affidavit
	of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	(indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC have been scrupulously followed.
C-41	No change in mining technology and scope of working should be made without prior approval of the DEIAA, No further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA, as applicable.	Since DEIAA committee is dismissed, further expansion or modifications in the mine will be done by consulting with SEIAA.
C-42	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.	Ensured that no natural water course and/or water resources were obstructed due to any mining operations.
C-43	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive dust emissions.	Scrupulously follows the directions contained as per the conditions. <b>(Details as attached Annexure-5)</b>
C-44	The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dumpsite(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and Over all slope of 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	Scrupulously follows the directions contained as per the conditions.

	the vegetation becomes self- sustaining.	
C-45	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly in to the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.	Scrupulously follows The directions contained.
C-46	Dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	Scrupulously follows the Directions contained.
C-47	Measures should be taken for control of noise levels below 87dBA in the work environment.	
C-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.	A separate environmental management cell with suitable qualified personnel has been set- up under the control of a Senior Executive, who will report directly to the Head of the Organization. ( <b>Details as</b> <b>attached Annexure:6</b> )

C-49	The funds earmarked for the 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 District Environment Impact Assessment Authority (DEIAA) Office.	The funds marked for environmental protection measures and CSR activities are being kept inseparate account and havehot been diverted for other purposes. Year wise expenditure will be reported to the State Environment Impact Assessment Authority (SEIAA) office, since DEIAA is dismissed.
C-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.	The Regional office of MOEF&CC located at Bangalore will monitor compliance of the stipulated conditions. The project authorities will extend full cooperation to the officer(S) of the Regional Office by furnishing the Requisite data/information/monitoring reports.
C-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.	Strictly follow the rules and Scrupulously follows the directions contained.
C-52	The DEIAA may revoke or suspend the order, for non- implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The DEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Since DEIAA committee is dismissed, SEIAA can revoke any order if any of the specific or this implementation of any of the above conditions is not satisfactory.

C-53	The above conditions shall prevail not withstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Yes, all the above conditions shall prevail not withstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.
C-54	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.	Yes, this order is valid for aperiod of 5 years or the expiry date of mine lease period issued by the Government of Kerala,whichever is earlier.
C-55	The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.	The Environmental Clearance is issued by DEIAA, Kollam. (Details as attached Annexure-1)
C-56	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	
C-57	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.	Scrupulously followsthe directions contained.
C-58	Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.	Scrupulously followsthe directions contained.
C-59	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance program of the workers will be done periodically to observe any contractions due to exposure to dust and corrective measures will be taken, if needed.

### Annexure 1 **EC Order**

### Proceedings of the District Environment Impact Assessment Authority (DEIAA) KOLLAM,

(Present : Dr.Chithra.S IAS, Member Secretary, DEIAA & Sub Collector, Kollam.)

B/DEIAA/ 23743/17

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Environmental Clearance.

Date: 20.02.2018

Sub: DEIAA - Kollam - Environmental Clearance for Granite building stone quarry orders issued.

- Ref: (1) Minutes of the Meetings of DEIAA held on 29.01.2018 in the chamber of the District Collector, Kollam.
  - (2) Minutes of the Meeting of DEAC held on 19.12.2017
  - (3) Application submitted by Shri.R.Krishnamoorthy, Anju Nivas, Manakkara, Sasthamkotta

Shri.R.Krishnamoorthy, Anju Nivas, Manakkara, Sasthamkotta filed, an application for an environmental clearance quarrying for granite building stone in Block No. 4, Re. survey No. 166/2, 166/3, 166/4, 166/6 in Pattazhy Village, Pathanapuram taluk. Kollam District. The total extent of the land is 3.9342 hectares that includes buffer zone 0.6599 hectares and the extent of minable area is 3.2743 hectares. The extent arrives from each survey Nos. are as follows 166/2-0.4041 hectares, 166/3 - 0.5098 hectares, 166/4 - 1.9149 hectares, and 166/6 pt -1.1054 hectares

The land in Re survey no. 166/6 is owned by Smt.Beena Paul, Manalil Bunglaw, Manchallur, Pathanapuram, and in Re survey no. 166/4 is owned by Sri. Pramod and Smt.Parvathy, Kuttur Kizhakkathil, Kannimel, Pattazhy, Pathanapurtam and the rest of the proposed site belongs to the proponent himself. The project proponent had submitted consents from the land owners.

After preliminary verification, the application was forwarded to DEAC. The DEAC members inspected proposed site on 28.01.2017 and reported that the area falls within latitudes 9°4'7.92" N and 9°4'16.69" N and longitudes 76° 48'31.36"E and 76° 48' 39.60" E

DEAC has reported that a part of the proposed area has been under quarrying activities for several years. The flanks are vertical as quarrying was not done with > benches. The rock is mainly charnockite. Deep water logged pits can be seen in the already mined areas of the quarry. Rubber is the prominent land use. There is a farm house at a distance of 124 m from the proposed area.

As per the mining plan submitted by the proponent life of the mine is 10 years and the total production of Granite Building Stone for the first five year is 10,25,000MT. The average thickness of the overburden in the area is 1.5 - 2 m. The overburden generated for the first five years shall be 80,000MT. The amount provided by the proponent for Corporate Social Responsibility Rs.4,00,000/- per annum.

The District Expert Appraisal Committee has reported that the area towards the the south of the proposed site is well elevated and thickly vegetated, where the thickness of overburden is around 3 m. This area falls within the Bench points P 8 and P 18. This particular area should not be mined. The greenery in this particular area should be preserved. This entire area should be treated as an extended buffer zone and clearly demarcated. The project proponent has submitted a revised mining plan. As per the revised mining plan the area of the extended buffer zone lies between the bench points is 0.7192 hectares and the mineable area is 2.5551 hectares.

The meeting of DEAC held on 19.12.2017 had recommended the issuance of environmental clearance for the proposed quarry project.

The meeting of DEIAA held on 29.01.2018 in the chamber of the District Collector decided to issue environmental clearance for granite building stone quarry in the 3.9342 hectares of land, that includes mineable area 2.5551 hectares, buffer zone 0.6599 hectares and an extended buffer zone of 0.7192 hectares between the bench points P8 and P18, comprised in Block No.4 Re. survey nos. 166/2, 166/3, 166/4 and 166/6 in Pattazhy village, Pathanapuram Taluk, Kollam district. subject to the following conditions.

### **CONDITIONS**

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- 1. Mining operations should be carried out strictly as per the approved mining plan.
- 2. The project proponent should provide proper fencing around the quarry throughout the life of the mine.
- 3. The project proponent should clearly demarcate the Government land adjacent to the proposed area.
- 4. While issuing permit on the basis of this environmental clearance, the Geologist should ensure that no LC arrears/ LC cases are pending against the project proponent.
- 5. The ultimate depth of quarrying should be limited to 80 m above mean sea level.
- 6. The proponent shall undertake maintenance of roads damaged by heavy loaded trucks.
- 7. Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.
- 8. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.

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

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- 10.Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- 11.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.
- 12.Corporate Social Responsibility (CSR) agreed upon by the proponent shall be complied with.
- 13. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before staring of mining. All the boundary indicators (boards, stones, markings etc) shall be provided at all times and shall be conspicuous.
- 14. Warning alarms including the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- 15.Control measures on noise and vibration prescribed by KSPCB should be implemented.
- 16. Quarrying activities should be limited to day time as per KSPCB guidelines
- 17.Blasting should be done in a controlled manner as specified by the regulations of Explosive Department or any other concerned agency.
- 18.A licensed person should supervise/control the blasting operations.
- 19.Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- 20. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plant/specific conditions.
- 21.Height of benches should not exceed 5m, and width should not be less than 5m, if there is no mention is the mining plan/specific condition.
- 22. Mats to reduce fly rock blast to a maximum of 10PPV should be provided.
- 23.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.
- 24. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- 25.Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- 26. The transportation of minerals should be done in covered trucks to contain dust emissions.
- 27. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- 28.Disposal of spent oil from diesel engines should be as specified under relevant rules/regulations.
- 29.Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.

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- 30.A minimum buffer distance of 50 m form the boundary of the quarry to the nearest dwelling unit or other structures not being any facility for mining shall be provided.
- 31.100m buffer distance should be maintained from forest boundaries.
- 32.Consent from Kerala State Pollution Control Board under Water and Air Act (s) should be obtained before initiating mining activity.
- 33.All other statutory clearance should be obtained, as applicable, by project proponent from the respective competent authorities including that for blasting and storage of Explosive.
- 34. The authority reserves the right to add the additional safe guard 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.
- 35. 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 1991 and EIA notification, 2006.

- 36. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and newspapers) 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.
- 37.A copy of the clearance letter shall be sent by the proponent in the concerned Grama Panchayat/District Panchayat/Municipality/Corporation/Urban Local Body also to the NGO, if any from whom suggestions/representations, if any, where received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
- 38. The proponent shall submit half yearly reports complaints 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. Each shall simultaneously be sent to the respective Regional Office of MoEI. Government of India also of the State Environment Impact Assessment Authority (SEIAA) office.
- 39. The details of Environment Clearance should be prominently displayed in a metallic board of 3ft x 3ft with green background and yellow letters of Times New Roman Font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.

- 40. The proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.
- 41.No change in mining technology and scope of working should be made without prior approval of the DEIAA. No further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA as applicable.
- 42. 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.

- 43. Monitoring of Ambient air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places of loading and unloading points & transfer point to reduce fugitive dust emissions.
- 44. The top soil, if any, shall temporarily be stored at the places for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8 meter and width 20 meter 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 or rehabilitated areas should continue until the vegetation becomes self sustaining.
- 45.Catch drains and siltation ponds of appropriate size shall be constructed around the mine working mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area roads, green belt development etc. The drains shall be regularly desalted particularly after monsoon and maintained properly.
- 46.Dust emissions from all the sources should be controlled regularly; Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
- 47.Measures should be taken for control of noise levels below 87dB in the work environment.
- 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.
- 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 District Environment Impact Assessment Authority (DEIAA) Office.
- 50. The Regional Office of MOEF & CC located at Bangalore shall mention 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.

- 51. Any appeal against this Environmental Clearance shall be with the National Green Tribunal, if preferred with a period of 30 days are prescribed under section 16 of the National Green Tribunal Act, 2010.
- 52. The DEIAA may revoke or suspend the order, for non-implementation of any of the specific conditions or the implementation of any of the above conditions is not satisfactory. The DEIAA reserves the right to after/modify the above conditions of stipulate any further conditions in the interest of environment protection.
- 53. The above conditions shall prevail not withstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.
- 54. This order is valid for a period of 5 years or the expiry of mine lease period issued by the Government of Kerala, whichever is earlier.
- 55. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
- 56. The mining operation shall be restricted to above ground water table and it
- should not interest ground water table. 57.All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution monitoring centre. Washing of all vehicles shall be inside the lease area.
- 58.Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
- 59.Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

(Sd/-)

### Member Secretary DEIAA & Sub Collector, Kollam

#### To

Shri.R.Krishnamoorthy, Anju Nivas, Manakkara, Sasthamkotta.

#### Copy to

1. Chairman, DEIAA & District Collector, Kollam.

2.DFO, Punalur & Member DEIAA

3.Dr. Sainudeen Pattazhy, Member DEIAA

4.All members of DEAC

5. Tahsildar, Pathanapuram

6. Secretary, Polloghy Grama Panchayath.

7.SHO, Pathanapura 8.Village Officer, Patrazho 1- file:

Forwarded by Order Superintendent

Senior

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### ANNEXURE 3 POLLUTION CERTIFICATE



### KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/KO/ICO/G/781/2016 Date of issue :28/02/2018

### INTEGRATED CONSENT TO OPERATE - RENEWAL

Consent No : PCB/KO/ICO/R1/460/2018

Ref: 1) Consent No.PCB/KO/ICO/F/460/2016 dated 20.08.2016.

2) Affidavit dated 19.12.2017.

3) Environmental Clearance Certificate no.B/DEIAA/23743/17 dated 20.02.2018

The 'Integrated Consent to Operate' issued as per reference above to M/s QUARRY OWNED BY KRISHNAMOORTHY, SURVEY NO: 166/4, PANTHAPLAVIL, PATTAZHY P.O, KOLLAM is hereby renewed up to 19/02/2023 and issued to M/s QUARRY OWNED BY KRISHNAMOORTHY, SURVEY NO: 166/4, 166/3.166/2,166/6, PANTHAPLAVIL, PATTAZHY P.O, KOLLAM 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	Annual fee(Rs)	4050/-
2	Category	Red
3	Capital Investment(In Lakhs)	- 13
4	Fee Remitted(Rs)	26425/-
5	Validity	19.02.2023
6	Activity	Quarrying of granite building stone from 2.5551 Hectares of land in survey no.166/4, 166/3,166/2,166/6

### II. Stack Details

Stack No.	Source of	Emission	Stack Heij	Stack Height above		
	Emission	Rate(Nm3/Hr)	Ground Level(In Meters)	Roof Level(In Meters)	Equipment	
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### **III. CONDITIONS**

1. This consent is valid upto 19.02.2023. For continuing to operate beyond the validity date application for the renewal has to be submitted through online (website:krocmms.nic.in) before 19.11.2022. 2) This consent is issued based on the Environmental Clearance Certificate no.B/DEIAA/23743/17 dated 20.02.2018 and is valid only when all other statutory/necessary clearances from other concerned authorities are valid. The Quarrying shall be done after obtaining clearance from all concerned authorities.

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

DATE :28/02/2018

SIMIF +05'30' SIGNATURE & SEAL OF ISSUING AUTHORITY ENVIRONMENTAL ENGINEER, KOLLAM

Digitally signed by SIMI P

Date: 2018.02.28 19:07:25



To R.KRISHNAMOORTHY. ANJU NIVAS. MANAKKARA. SASTHAMKOTTA P.O. KOLLAM

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.

Page 1

### **ANNEXURE 4** EXPLOSIVE LICENSE



भारत सरकार | Government of India वाणिज्य और उत्योग मंत्रालय | Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO) पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives केन्द्रीय भेवन, 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 | फेक्स (Fax):- 2427276

(No.): E/SC/KL/22/1158(E58211)

दिनाक (Date): 30/03/20

Shri R. Krishnamoorthy, Sasthacota P.O., Bharanikavu, Kollam District, Kerala-690520, Town/Village - Bharanikavu District-KOLLAM. State-Kerala, Pincode - 690520

Survey No.173/4,, ग्राम Pattazhi village, pathanapuram taluk, Kollam Distri, जिला KOLLAM, राज्य Kerala में मेसर्स Shri R. Krishnamoorthy द्वारा विरफोटक के मैगजीन में उपयोग के लिए कब्जा हेतू विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अन्जप्ति सं E/SC/KL/22/1158(E58211) के संशोधन संदर्भ में।

(आरेखणें / सुविधाएं / परिसर में परिवर्तन )

Possession for Use of of Explosives from magazine situated at Survey No.: 173/4,, Pattazhi village, pathanapuram taluk, Kollam Distri, Dist. KOLLAM, Kerala -Licence No.: E/SC/KL/22/1158(E58211) granted in Form LE-3 of Explosives Rules, 2008 -

( Amendment in Drawings/Facilities/Premises).

Amo

To

ज उपर्युक्त विषय पर पत्र सख्या Nil दिनांक 10/03/2016 का संदर्भ ग्रहण करें। Pease refer to your letter no. Nil dated 10/03/2016.

अन्य दित संख्या E'SC/KL/22/1158(E58211) I.INTIMATION REGARDING QUARRY PERMIT IN THE NAME OF THE LICENSE OR BLASTING OPERATIONS AT SY.NO. 243/3,232/2-6 \* OF ERATHU VILLAGE, ADOOR TALUK, PATHANAMTHITTA DR IS ACKNOWLEDGED.NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND TY TO BE SUBMITTED TO THIS OFFICE.2. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN DESESSION. 2. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY.3. OPENING OF QUARRY STALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.4.

APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. 5. ALL RECORDS OF USE OF COSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED.6. DAILY PASS FOR USE OF EXPLOSIVES (RE-13)SHALL REGENERATED ONLINE. 7. TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO THE QUARRY SITE SHALL BE THE FROM LICENCED EXPLOSIVES VAN. EXPLOSIVES AND DETONATORS SHALL BE TRANSPORTED SEPARATELY ND NOT TO BE TRANSPORTED IN SAME VAN. के संदर्भ में यथा संशोधित कर भेजी जा रही है।

Licence No.: F/SC/KL/22/1158(E58211) is forwarded herewith duly amended in respect of followings

LINTIMATION REGARDING QUARRY PERMIT IN THE NAME OF THE LICENSEE FOR BLASTING OPERATIONS AT SY NO. 243/3.232/2-6 OF ERAT GE, ADOOR TALUK, PATHANAMTHITTA DIST IS ACKNOWLEDGED NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT TAILED AND COPY TO BE SUBMITTED TO THIS OFFICE.2. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARAN TAILED AND COPY TO BE SUBMITTED TO THIS OFFICE.2. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARAN S PPI.ICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION. 2. IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY S POLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY.3. OPENING OF QUARRY SHA INFORMED TO THE DEMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.4. APPROVED BLASTER SHALL BE APPOINT INFORMED TO THE DEMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.4. APPROVED BLASTER SHALL BE APPOINT INFORMED TO THE DEMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT.4. APPROVED BLASTER SHALL BE APPOINT QUARRY FOR BLASTING 5. ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7 RE-13 SHALL BE MAINTAINED 6. DAILY PASS FOR USE LOSIVES (RE-13)SHALL BE GENERATED ONLINE. 7. TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO THE QUARRY SITE SHALL BE DE LICENCED EXPLOSIVES VAN. EXPLOSIVES AND DETONATORS SHALL BE TRANSPORTED SEPARATELY AND NOT TO BE TRANSPORTED SVIE VAN.

ात भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी। icence capacity at any one time shall not exceed the kinds and quantities mentioned below ;

संख्या	विस्फोटक	त्रे Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit	
No	Explosive(s)		0	- 0	100	Kg.	
1	Nitrate Mixture	- 4	1	0	2000	Mtrs	
2	Sufety Fuse	6	3	0	2000	Nos.	

sector of purchased in a calendar month[applicable for licence under article 3(b) and (c)] : 20 th

यह अन्जप्ति दिनाक 31 मार्च 2020 तक प्रवृत्त रहेगी। This Licence shall remain valid till 31st day of March 2020.

अनुजप्ति के आगामी नवीकरण हेतु कृपया विस्फोयटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया प For further revalidation (if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter m

भवदीय | Your's faithfully

(एस.एम.कुलकणी | S M Kulkarni) विस्फोटक नियंत्रक | Controller of Explosives कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives कृतेकोडची मुख्याबतिया नियन्त्रक For Deputy Chief Controller of Explosives. एरनाकुलम Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

available in the set water

1. District Magistrate, KOLLAM, Kerala with reference to his Noc No: D.Dis.7754/09/M7 Dated: 02/12/2010 Superintendent of Police, KOLLAM, Kerala. 2. A REAL SHORTSTONESS AND A

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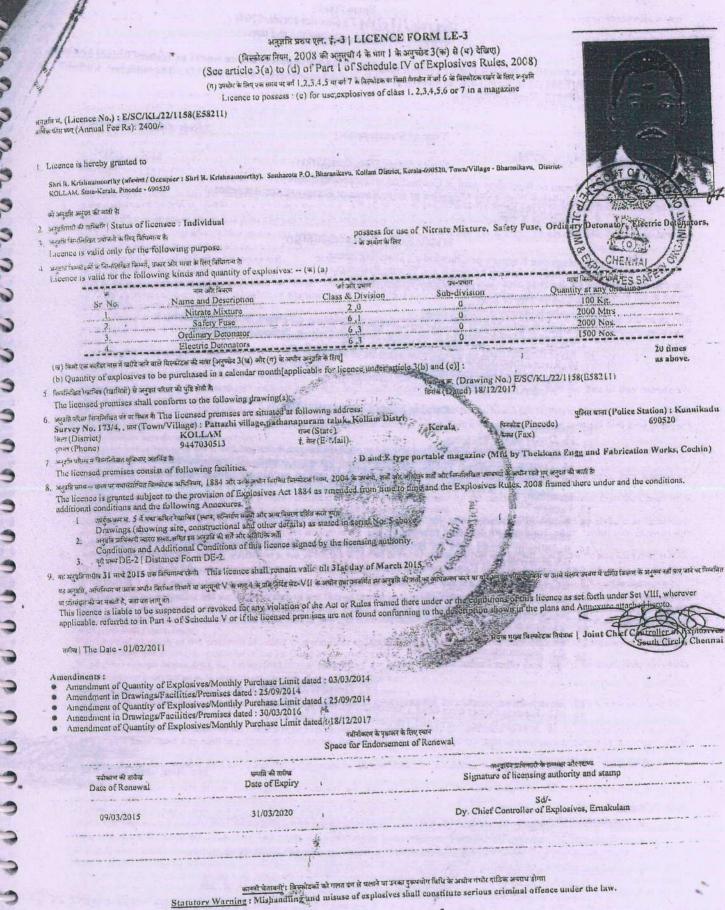
कृते उप मुख्य विस्फोटक नियंत्रक | For The Dy. Chief Controller of Explosive HALLS REPAIR ALLONG AND ALL THE ALL AND ALL AN कोच्ची | Ernaku

(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)

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Page 1 of 1



Page 1 of 2

#### (He VIII | Set VIII)

र्थ वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को बिक्री था प्रयोग हेतु रायने के लिए प्ररूप एल.ई. 3 (अनुच्छेद 3 (ख) से (ग)] में मुख्य विस्फोटक नियंत्रक या बिस्फोटक नियंत्रक व्यारा प्रथान किए जाने वाले अनुवाधि स. E/SC/KL/22/1158(E58211) की शर्ते निम्नलिखित हैं।

following are the conditions of licence number E/SC/KL/22/1158(E58211) 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 अनुवापन योग्य सामर्थ्य से अधिक नहीं होगी।

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10.

- The quantity of explosives on the premises at any one time shall not exceed the licensable capacity. विस्फोटको के भडाएग के लिए प्रयुक्तर होने वाली मेगजीन अनुसूची III और अनुउधि के उपावध में विनिर्दिष्ट सुरक्षा तूरी बनाएं रखना होगा।

- The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence. माजीन का प्रयोग उन सभी विस्फोटकों के, जो इम अनुसीर में विनिधि है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आपान या जीजार या उपकर्णों के रखे जाने के लिए सी किया जाएगा; अन्यया नहीं। The magazine shall be used only for keeping all explosives specified in this heenee and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पेकजो को खोलने का कार्य और विस्फोटकों को तीलने तथा पेक 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.

शे गा दो में अधिक वर्णन के बिस्फीटकों को, जिन्हें मैंगजीन में रखे जाने की जनुशा थीं जा सकती है, मैंगजीन में तभी रखे जाएंगे जब उनमें से प्रत्येक को, ऐसे परार्थ या स्वरूप का कोई मध्यवती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, परस्पर पृथक कर दिया जाए कि किसी वजह से बिस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु 🗕

(घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत अने वाले सुरक्षा पलीते और वर्ग 6 प्रभाग 2 के अंतर्गत अनेवाले विस्फोटक प्रेरक प्रलीत, जिनमें कोई खुला लोग्रा या इस्मान नहीं है, एक युसरे के साथ विना किसी भध्यवर्ती विभाजक या स्थायन के राखे जा सकते हैं। (3) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विभक्तीटक प्रेरक अलग रखे आएंगे।

(च) वर्ग । के अंतर्गत आमे वाले बारूद को अलग रखा आएगा।

Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space, as will effectually prevent explosion or fire in the one communicating with the other, Provided that-

(d) the various explosives of Class 2 (nitrate-mixture). Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or SDace

- (c) Detonators belonging to Class 6 Division 3 shall be kept separately (f) Gun powder belonging to Class 1 shall be kept separately. কা 3 (ব্যৰ্থু) খাদিক) के बिमसेटकों को, उनके बिनियांग की तारीख से एक वर्ष बीत जाने के पश्चा सिवाय अनुवापन प्राधिकारी की विशेष मंजूरी के मेनजीन में नई एवा 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

भी 3 (भाइट्रो योगिक) के विस्फोटको को, उनके विनिर्माण की तारीख में एक वर्ष बीत जाने के पद्यात मेगबीन में तभा रखा आएगा अब कि किसी विस्फोटक नियतक ने इसके लिए विशेष मंजूरी वे ती छे।

(1) जब ऐसा मजूरी व वी गई छो तो प्रत्येक निरीक्षण पर किसी-विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिग्राप्त कर लिया जाए जिसमें दी गई मजूरी के अंतर्गन आनेवाली अवधि वशीन की गई हो और ऐसे प्रनाणपत्र के अनुवाधिशरी अपने पास रखेगा और माग की जाने पर प्रस्तुगर करेगा। (ii) वब कोई विस्फोटक मानव शुख्ता का न रह जाने के कारण या प्रथणीकरण या भाइड्रो ग्लीअसरीन या प्रच नड़रों गोगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपमुक्त नहीं रह जाता है ता

अनुप्रतिधारी अपने ही व्यथ पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निरेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक वार्ग करें।

Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date of their manufacture except with the special sanction of the Controller of Explosives.

(i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.

(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nit such directions as to its disposal as the Chief Controller or Controller of Explosives may issue.

मैंगजीन के भोतरी भाग या उसमें लगी बैंचों, शेल्फों और उसकी फिटिंग का इस प्रकार सन्भिर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विरुक्तेटक का किसी लोरे था इस्पात के साथ संयक्ते रीका जा सके भीती भाग में लगी मेंचे, शैल्फें और फिटिंग यथासाध्य प्रिंट सं गुरू एवं साफ रखे जाएंगे क्या ऐसे विस्फोटक, जो जल से खतराक रूप में प्रभावित हो सकते हैं, इस वाबत सम्यक सावयानी भरती जाएगी कि वहां कोई जल मोजूद न गरे ' पगेतु किसी लोडे या इस्पात के खुले होने के विरूष्य भावधानी से संबंधित इस शते का यह भाग ऐसे किसी भवन में बाध्येकर नहीं होगा विसमें चर्म 6 (गोला चारूद) के प्रथम के विस्फोटक से फिन्न कोई विस्फोटक ग्रह्या गया है।

The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean, and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from;

Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is kept.

यदि तडित चालक का पेरीवण विस्फोटक नियत्रक करता है तो अनुशामिधाएँ ऐसे परीक्षण के लिए थिहित फीस का सदाय करेगा यदि परीक्षण असमाधानकारी साथित होता है तो उतनी ही फीस अनुश्वमिधारी व्याए पश्चात्वनी प्रायंक परिक्षण के लिए तब तक थी आती रहेगी अब तक कि परीक्षण अधिकारी तडित चालक की समाधानप्रद घोषित नहीं कर देता

थांतु किसी एक परिक्षण के लिए देव फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्थ होगा

पतु यह और कि श्रंदि के आ अधिक रादित वालक एक ही मैगजीन से सवका है तो ऐसे सभी चालकों के परिश्वण के लिए फ्रंस ऐसी किसी फिर में अधिक नहीं होगी जो किसी एक तदित जालक के परीक्षण के लिए प्रा स्थिति में विभिन की गई है।

If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees presented 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 attuched to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor. अयुक्त तथा जेब गरित कार्यकरण यत्थों , अयुक्त जूतों के प्रयोग व्याग तथा तथा तथा तथा प्राण्या जिस्त गय था प्राण्य विद्या कार्यक उपावेकरण यत्थों , अयुक्त जूतों के प्रयोग व्याग तथा तथा तथा प्राण्या अथवा प्रेस प्रायत सम्यक उपावेय

बस्तुोएं या पदार्थ, जिससे बिस्फोट हो सकता है था आग लग सकती हो, किन्तु इस रातें के कारण ऐसी संखना, स्थिति या म्यरूप में किसी कृषिभ बती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो परंतु इस शर्त का यह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबुध में बाध्य कर नहीं होगा जिससे जिन्न कोई विस्फोटक नहीं ग्खा 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

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The Dy. Chief Controller of Explosives, Kochi District Magistrate, KOLLAM, Kerala with reference to his Noc No. D.Dis.7754/09/M7 Dated: 02/12/2010 Superintendent of Police, KOLLAM, Kerala. ?: 33 to. U.



ENVIRODESIGNS

**ECO LABS** (Food Quality | Water | Environmental Testing Lab)



ISO 9001:2015, ISO 45001:2018 Certified organisation Approved 'A' grade Lab by Kerala State Pollution Control Board Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114) Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

#### TEST REPORT

Page 1 of 2

Report No. : EEL/LR/23/0023713/719

Issued To:

Issue Date : June 20, 2023

Mr. Krishnamoorthy Anju Nivas, Mankara Sasthamcotta,Kollam Dist.

Customer ref: - Verbal

Project: - Environmental Monitoring

Survey No.166/2, 166/3, 166/4, 166/6 at Pattazhi Village, Pathanapuram Taluk, Kollam Dist. Kerala. Sample receipt form Ref. No. : SRF/W/06/719 dt. 13.06.2023 Sampling done by: Customer

Sample Particulars: Water sample

Sample receiving date: June 13, 2023 Analysis starting date : June 13, 2023 Quantity of sample received: 1L x 1 Packaging details: Pet bottle

Lab identification code : W/06/719 Analysis completion date : June 19, 2023 Description of sample by the customer: Water sample (Open Well)

Physical appearance of the sample: Clear liquid

Tests required: For the parameters listed below, as per Drinking water specification IS 10500:2012

SAMPLE TESTED AS RECEIVED

Sl. No.	Parameters	Unit	Method	Result	Requirement (Acceptable limit)
1.	pH at 25°C		Cl.2 of IS 3025 (Pt 11):1983	7.1	6.5-8.5
2.	Odour		IS 3025 (Pt 5): 2018	Agreeable	Agreeable
3.	Colour	Hazen Units,max	Cl. 2 of IS 3025 (Pt 4):2021	4.0	5.0
4.	Turbidity	NTU,max	IS 3025 (Pt 10):1984	0.80	1.0
5.	Total Dissolved Solids	mg/l,max	IS 3025(Pt 16):1984	186	500
6.	Total Hardness as CaCO <sub>3</sub>	mg/l,max	Cl. 5 of IS 3025 (Pt 21):2009	76	200
7.	Chloride as Cl	mg/l,max	Cl. 2 of IS 3025(Pt 32):1988	76.52	250
8.	Sulphate as SO <sub>4</sub>	mg/l,max	Cl. 4 of IS 3025(Pt 24):1986	1.59	200
9.	Alkalinity as CaCO <sub>3</sub>	mg/l,max	Cl. 8.1 of IS 3025(Pt 23):1986	28.56	200
10.	Iron as Fe	mg/l,max	Cl. 6 of IS 3025 (Pt 53):2003	0.11	1.0
11.	Calcium as Ca	mg/l,max	Cl. 5 of IS 3025(Pt 40):1991	22.44	75
12.	Magnesium as Mg	mg/l,max	Cl. 6 of IS 3025(Pt 46):1994	4.87	30
13.	Free Residual Chlorine	mg/l,min	IS 3025 (Pt 26):2021	BDL(MDL-0.01)	0.2
14.	Fluoride as F	mg/l,max	Cl. 5 of IS 3025 (Pt 60) : 2008	BDL(MDL-0.2)	1.0
15.	Manganese as Mn	mg/l,max	IS 3025 (Pt 2) : 2019	BDL(MDL-0.01)	0.1
16.	Zinc as Zn	mg/l,max	IS 3025 (Pt 2): 2019	BDL(MDL-0.01)	5.0
17.	Cadmium as Cd	mg/l,max	IS 3025 (Pt 2): 2019	BDL(MDL-0.001)	0.003
18.	Lead as Pb	mg/l,max	IS 3025 (Pt 2): 2019	BDL(MDL-0.005)	0.01

Note:- BDL: Below Detection Limit

MDL: Minimum Detection Limit



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Page 2 of 2

#### Report No. : EEL/LR/23/0023713/719

Sl. No.	Parameters	Method	Result	Requirement
1.	Total coliform bacteria/100ml	IS 15185 :2016	Absent	Shall not be detectable in any 100ml sample
2.	E.coli or thermotolerant coliform bacteria/100ml	IS 15185 :2016	Absent -	Shall not be detectable in any 100ml sample

.....End of Report.....

' Susan Abraham Technical Manager Authorised Signatory Envirodesigns Eco Labs

Jesty M. T. Dy.Tech. Manager-Microbiology Authorised Signatory Envirodesigns Eco Labs



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Page 1 of 1

Report No. : EEL/LR/23/0023714/720

Issued To:

Issue Date : June 20, 2023

Mr. Krishnamoorthy Anju Nivas, Mankara Sasthamcotta,Kollam Dist.

Customer ref: - Verbal

Project: - Environmental Monitoring

Survey No.166/2, 166/3, 166/4, 166/6 at Pattazhi Village, Pathanapuram Taluk, Kollam Dist. Kerala. Sample receipt form Ref. No. : SRF/A/06/720 dt. 14.06.2023

Sampling done by: Lab field technicians

### Sample Particulars: Ambient Air sample

	of monitoring : June 13, 2023 to	June 14, 202	23		
Loca	tion of monitoring : Ambient Air Mon	itoring near	South Side Boundary		
Loca	tion of sampler : 3.2 m above group	nd level	South Slue Doundary		
	pling method : June 14, 2023		Lab identification	code: 1/06/7	20
Analy	sis starting date : June 14, 2023		Analyzia commist		
<b>Fests</b>	required: 'For the parameters listed bel	ow, as per C	PCB guidelines	ion date. June	10, 2025
	SA	MPLE TES	TED AS RECEIVED		
S1.					
No.	Parameters	Unit	Method	Result	Limit (max)
1.	Particulate matter	$\mu g/m^3$	IS 5182(Pt 23):2006	58.43	100
	(Size less than $10\mu m$ ) or PM <sub>10</sub>		( ,	50.45	100
2.	Particulate matter	$\mu g/m^3$	CPCB guidelines 2011	17.63	60
	(Size less than $2.5 \mu m$ ) or PM <sub>2.5</sub>		Buidennies 2011	17.05	60
3.	Sulphur dioxide	$\mu g/m^3$	IS: 5182 (Pt 2):2001	11.06	80
4.	Nitrogen dioxide	µg/m <sup>3</sup>	IS: 5182 (Pt 6): 2006		80
5.	Carbon Monoxide (8hrs)	mg/m <sup>3</sup>		8.14	80
т.	t and in the Card and the state of the	mg/m	IS: 5182 (Pt 10): 1999	0.60	2.0

0.60 \* Limit applicable for Industrial, Residential, Rural and other Areas as per National Ambient Air Quality Standards 2009. Weather and Meteorological Data

Weather condition: Partly cloudy

Meteorological Parameters	Max	Min
Temperature ( <sup>0</sup> C)	29	25
Humidity (%)	92	65

### Instruments used for Monitoring

1. Respirable Dust Sampler (RDS), Make: Envirotech Instruments Pvt. Ltd. Model: APM 460, ID. No. : EEL/RDS/09

2. Fine Particulate Sampler (FPS), Make & Model: Envirotech Instruments Pvt. Ltd., APM 550, ID. No. EEL/FPS/07 3. CO ANALYZER, Make: Endee Engineers, Model :IR-50, ID NO.:EEL/COA/02

Susan Abraham Technical Manager Authorised Signatory Envirodesigns Eco Labs ....End of Report.....

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Eco Tower, Opp. Metro Pillar No. 544, Janatha Junction., Palarivattom, Kochi - 682 025. Ph: 0484-4042556, Fax: 4052445 Email: lab@envirodesigns.in Web: www.envirodesigns.in







ISO 9001:2015, ISO 45001:2018 Certified organisation Approved 'A' grade Lab by Kerala State Pollution Control Board Accredited Lab by NABL as per ISO 17025:2017 (Cert No: TC-7114) Recognised Lab by Ministry of Environment, Forests & Climate Change (Govt. of India) as per E (P) Act 1986

#### NOISE LEVEL MONITORING REPORT

Report No. : EEL/LR/23/0023715/721 Issue Date : June 20, 2023

Issued To:

Page 1 of 2

Mr. Krishnamoorthy Anju Nivas, Mankara Sasthamcotta,Kollam Dist.

Customer ref: - Verbal

Project: - Environmental Monitoring

Survey No.166/2,166/3,166/4,166/6 at Pattazhi Village,Pathanapuram Taluk,Kollam Dist. Kerala. Sample receipt form Ref. No. : SRF/N/06/721 dt. 14.06.2023 Monitoring done by: Lab field technicians

Sample Particulars: Noise Level Monitoring

Date of monitoring	: June 13, 2023to	June 14, 2023
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Source of monitoring : Ambient Noise Level monitoring

Sampling method : Monitoring Protocol No. EEL/ENV/MP/01

Lab identification code : N/06/721

Method Used : IS 9989:1981

Presentation of Results				
Sl. No.	Time of Monitoring(Hrs)	Value Reported in dB (A) $L_{eq}$		
1.	06.00 - 07.00	38.7		
2.	07.00 - 08.00	39.3		
3.	08.00 - 09.00	41.3		
4.	09.00-10.00	44.6		
5.	10.00 - 11.00	45.3		
6.	11.00 - 12.00	51.6		
7.	12.00 - 13.00	52.3		
8.	13.00 - 14.00	50.3		
9.	14.00 - 15.00	51.6		
-10.	15.00 - 16.00	49.3		
11.	16.00 - 17.00	48.3		
12.	17.00 - 18.00	47.6		
13.	18.00 - 19.00	45.3		
14.	19.00 - 20.00	44.8		
15.	20.00 - 21.00	41.7		
16.	21.00 - 22.00	40.3		
17.	22.00 - 23.00	38.6		

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Eco Tower, Opp. Metro Pillar No. 544, Janatha Junction., Palarivattom, Kochi - 682 025. Ph: 0484-4042556, Fax: 4052445 Email: lab@envirodesigns.in Web: www.envirodesigns.in



ENVIRODESIGNS

Report No. : EEL/LR/23/0023715/721

LABS



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Food Quality | Water | Environmental Testing Lab)

Page 2 of 2

Sl. No.	Time of Monitoring(Hrs)	Value Reported in dB (A) Leq
18.	23.00 - 00.00	37.5
19.	00.00 - 01.00	36.6
20.	01.00 - 02.00	35.3
21.	02.00 - 03.00	35.8
22.	03.00 - 04.00	36.3
23.	04.00 - 05.00	37.1
24.	- 05.00 - 06.00	37.9

S1.	Location of Monitoring	Value Reported in dB (A) L <sub>eq</sub>	
No.		Day time	Night time
1.	Ambient Noise Level monitoring measured near South Side Boundary	46.4	37.7

	Industrial Area	Commercial Area	Residential Area	Silence Zone
Day Time	75	65	55	50
Night Time	70	55	45	40
Note: Day time r	neans - 6.00 AM t	o 10.00 PM N	ight time means - 10.	00 PM to 6.00 AN

Name of Instrument : Sound Level Meter, Make: Cygnet, Model : A0106-302, ID No : EEL/SLM/01

.....End of Report.....

Susan Abraham Technical Manager Authorised Signatory Envirodesigns Eco Labs

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### **ANNEXURE 6 - ENVIRONMENTAL MONITORING CELL**

An environmental monitoring cell was formed with Mr Krishnamoorthy head of the monitoring cell and made functional. Meeting of monitoring cell is arranged monthly and discuss the status of the compliance of the specific and general conditions contained in the Environmental clearance order. The details of the monitoring cell members are given below:

Sl. No.	Post	Name
1	Head of the monitoring cell	Mr.R. Krishnamoorthy (Proprietor)
2	Head in charge (Environment)	Mr. Unni Krishnapilla, General manager
3	Senior Environmental Officer	Mr. Vijayanpilla, Manager
4	Environmental Officer	Mr. Faisal, Crusher Manager
5	Name of the environmental officer in charge	Mr. Thinad, Quarry manager
6	Name of the officer Environment, Health and safety	Mr. Thinad, Quarry manager
7	Name of the Assistant Officer of Environment, Health and safety	Mr. Vishnu, Assistant Mines Manager
8	Name of the environment laboratory	ECO LABS PvtLtd
9	Address of Environmental laboratory	Janatha junction, Palarivattom, Kochi