

COMPLIANCE REPORT

October 2023 – March 2024

**COCHIN GRANITES PULICKAL
ASSOCIATES
(QUARRY PROJECT)
ERNAKULAM DISTRICT
KERALA**

COCHIN GRANITES PULICKAL ASSOCIATES

Registered Office: Thombrayil, Chelad P.O., Kothamangalam, Ernakulam Dist.Kerala, Pin : 686 681
Corporate office : 1st floor, HDFC Bank Building, Subhash Chandrabose Road, Jawahar Nagar, Vyttila P.O., Cochin - 682019
Telephone : 0484-2308020, Telefax : 0484-2308021, Mob : 9447707173
Website : www.cochingranites.in, Email : info@cochingranites.in

ELDHO KURUVILLA
Managing Partner

14.05.2024

To,
The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4th Floor, E & F Wing, Kendriya Sadan, Koramangala, Bangalore – 560034

Sub.:- Environmental Clearance - Quarry project at Survey Nos. 283 and others at Mazhuvanoor Village and Sy. No. 284/1-2, 284/1-3 and others at Arakapady Village Ernakulam District, Kerala - Compliance report- First half reg.

- Ref.1. File No. 1392/EC2/2019/SEIAAA dt. 11-10-2022**
Ref.2. EC Identification No. EC22B001KL180424 dt. 11-10-2022
Ref.3. Proposal No. SIA/KL/MIN/144152/2020 dt. 20-02-2020

Respected Sir,

The Quarry (Building stone) project was accorded Environmental Clearance for **8.7668 ha.** By **EC Identification No. EC22B001KL180424 dt. 11-10-2022** by State Environment Impact Assessment Authority, Kerla. The half yearly compliance report for **the period of October 2023 - March 2024** to the specific and general conditions of the Environment Clearance order is enclosed.

Thanking you
Yours respectfully
For M/s Cochin Granites Pulickal Associates

For Cochin Granites Pulickal Associates

Managing Partner

Eldho Kuruvilla
Managing Partner

Copy to :-
The Member Secretary
State Environment Impact Assessment Authority (SEIAA),
Thiruvananthapuram, Kerala.

Encl: As Above

Factory Location : Cheenikuzhy, North Mazhuvanoor P.O, Perumbavoor, Ernakulam Dist., Kerala, Pin : 686 669

COMPLIANCE REPORT
TO
THE CONDITIONS
OF
ENVIRONMENTAL CLEARANCE IDENTIFICATION No.
EC22B001KL180424
File NO. 1392/EC2/2019/SEIAA

BY
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
(SEIAA)
FOR
BUILDING STONE QUARRY
(MINOR MINERAL MINING) PROJECT

AT
Survey Nos. 283, 282/3-1, 282/3-3pt at Mazhuvanoor
Village and Sy. No. 284/1-2, 284/1-3, 284/2-2Pt., 284/2-
3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 at
Arkapady Village

ERNAKULAM DISTRICT, KERALA

BY
M/S COCHIN GRNITES PULICKAL ASSOCIATES
ERNAKULAM DISTRICT
KERALA

INDEX

SI. No.	Particulars	Page No.
1.	Introduction	06
2	Compliance Report – Specific conditions – Part A	07
3	Compliance Report – General conditions – Part B	15
4	Plates	34
5	Annexure	39

LIST OF PLATES

Plate No.	Particulars	Page No.
1.	Geo tagged photograph of drainage and siltation traps	35
2.	Geo tagged photograph of afforestation	36
3.	Geo tagged photograph of Fencing	36
4.	Geo tagged photograph of EC Board	37
5.	Geo tagged photograph of warning alarm	38
6.	Geo tagged photograph of plantation at buffer zone	38

LIST OF ANNEXURES

Annexure No.	Particulars	Page No.
01	Copy of Minutes of cluster EMC	40
02	Letter to Panchayat	44
03	Copy of affidavit	45
04	Copy of the Environment Clearance	47
05	Copy of the “ <i>Consent to Operate</i> ” from Kerala State Pollution Control Board	65
06	Copy of Explosive License issued by the Ministry of Commerce & Industry – Petroleum & Explosives Safety Organization (PESO)	67
07	Copy of License for quarry operations from <i>Gram</i> Panchayath	69
08	Copy of License for quarry operations from <i>Gram</i> Panchayath	70
09	Copy of proceeding order for mine lease	71
10	Copy of mine lease deed	73
11	Copy of advertisement in newspaper	75
12	Copy of EMC Minutes	77
13	Copy of Reust of Air	79
14	Copy of Reust of Noise	81
15	Copy of Reust of Air Water	83
16	Certificate of mines manager	85
17	Certificate of Foreman	86
18	Certificate of mines mate	87

INTRODUCTION

M/s Cochin Granites Pulickal Associates quarry project is situated at survey no. 283 and others at Mazhuvanoor Village and Sy. No.284/1-2, 284/1-3 and others at Arkapady Village, Ernakulam District, Kerala. The quarry project was accorded with the Environmental Clearance (EC) by State Environmental Impact Assessment Authority vide file number **45/SEIAA/KL/7166/2012 dt 15.03.2013** for an area of **4.898**.

Later, the project proponent has applied for expansion of existing project in February 2020 at SEIAA for an area of **8.7668** ha. After conducting EIA and public hearing, the project proponent has obtained Environmental Clearance vide EC Identification No. EC22B001KL180424 and file No. 1392/EC2/2019/SEIAAA dt. 11/10/2022.

The half yearly compliance report needs to be submitted as part of EIA notification, 2006 by the project proponent. The compliance report to the specific conditions and general conditions of the Environmental Clearance for the period of **October 2023 – March 2024** is being submitted.

The project proponent has executed mine lease for an area of 8.7668 ha. on 20-06-2023 and the quarrying operation was started from 20-07-2023.

COMPLIANCE REPORT
(SPECIFIC CONDITIONS)
PART A

PART - A – SPECIFIC CONDITIONS

01	The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	Complied
-----------	---	-----------------

The proponent is carrying out quarrying as per the approved Mining Plan and follows the Kerala Minor Mineral Concession Rules 2015 and amendments thereby. To monitor and supervise the mining, the PP has appointed one Second Class manager, Foreman and Mate in the mine lease area.

02	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.	Complied
-----------	--	-----------------

The mining lease between PP and Govt. of Kerala was executed on 20-06-2023. The copy of lease order was submitted at SEIAA by the PP before commencing the mining activity. A copy of the same is attached with the HYCR.

03	The EC issued will be subject to a review by SEAC after 5 years through filed verification to ensure that mining is carried out sustainably as per the EC conditions.	Noted
-----------	---	--------------

The Project Proponent scrupulously follows the EC conditions stipulated in the EC order.

04	Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years	complied
-----------	--	-----------------

The PP has started to plant various tree saplings at the buffer zone of 7.5 meters in the first five year of the project. The PP has deployed labors to nurture and maintain

the saplings planted. The geotagged photograph of the saplings planted as green belt is attached as plate.

05	The garland canal, silt traps, siltation pond and outflow channel should be provided considering the entire project area prior to the commencement of mining.	complied
-----------	---	-----------------

The project proponent has constructed silt traps and siltation pond and over flow channel in the project site. The garland canal is constructed for storm water management. All silt will settle in the land of PP and cleared water is being letting out. The photograph of siltation trap and drainage is provided in **Plate No.1**.

06	The garland drain along with silt traps, siltation tank and outflow channel should be desilted and cleaned periodically and geotagged photographs should be incorporated in the Half Yearly Compliance Report.	Complied
-----------	--	-----------------

As part of surface runoff management, the PP has employed labours for periodic de-siltation and cleaning of garland drain along with silt traps, siltation tank and outflow channel. No waste water is letting out to the public drain or stream. All storm water is being clarified before letting out from the land of PP. The Geotagged photograph of the same is attached with Half Yearly Compliance Report.

07	The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.	Noted for compliance
-----------	---	-----------------------------

The Project Proponent started the blasting activity in July 2023. The monitoring of vibration will be conducted at nearest houses and build structures. The study report will be submitted at SEIAA along with Half Yearly Compliance Report (HYCR).

08	Compensatory afforestation should be done with indigenous fruit trees and the geotagged photographs of the afforested place should be submitted along with HYCR. The activity should be	complied
-----------	---	-----------------

	commenced before the start of quarrying operations. The PP committed planting of native trees @ 1:5 for every tree cut from the project area.	
--	---	--

The compensatory afforestation was done with indigenous fruit trees and the geotagged photographs of the area is attached in HYCR as **Plate No.2**. This activity has started before commencing mining activity. The PP has cut 41 trees for the mining from lease area. As part of compensation, PP has planted 207 fruit tree saplings in the project site. The details of saplings are listed below

Sl. No	Name and Number of Sapling	Sl. No	Name and Number of Sapling
01	Mango – 55	06	Pappaya – 49
02	Njaval – 26	07	Custard Apple - 05
03	Jackfruit – 14	08	Amla – 02
04	Chickoo – 10	09	Pomogranite – 10
05	Lemon – 05	10	Guava – 10

09	Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).	Complied
-----------	---	-----------------

The transportation has restricted as per the condition. No vehicle is permitted to go outside from 8am to 10 am and 3.30pm to 5 pm.

10	Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.	Being Complied
-----------	---	-----------------------

The PP has given a letter of interest to implement the CER activities mentioned in the EC order to the Grama Panchayat. A reply against the letter from Grama panchayat is yet to come. The copy of letter submitted at Grama Panchayat is attached as

Annexure. The CER will be implemented in the first two year after execution of mining lease. The maintenance of activity will be done under CER till the mine closure time.

11	As there are two more working quarries working within 500 Mts. distance from the project site, all the mitigation plans suggested in the Environmental Management Plan derived based on the EIA should be implemented for the entire area in consultation with other project proponents. An Environmental Monitoring Cell should be constituted for the entire area by incorporating all the quarry owners and the compliance of this direction shall be included in the HYCR.	Being Complied
-----------	--	-----------------------

The PP has started to implement the all mitigations plans and Environment Management Plan mentioned in the EIA report for the entire area. An Environmental Monitoring Cell was constituted for the for the entire area by incorporating all the quarry owners and the minutes of meeting has included in this compliance report as **Annexure No.1.**

12	All the concerns expressed during the Public Consultation process should be addressed without fail and it has to be mentioned in the half yearly compliance report.	Being Complied
-----------	---	-----------------------

The concerns expressed by the public during public consultation is being addressed without fail. To suppress dust emission, the PP has installed various sprinklers and mist system in the project site. The vehicles are not conducting transportation during school timing and peak traffic time.

13	As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise.	Being Complied
-----------	---	-----------------------

	<p>The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.</p>	
--	---	--

The PP has given a letter of interest to implement the CER activities mentioned in the EC order to the Grama Panchayat. A reply against the letter from Grama panchayat is yet to come. The copy of letter submitted at Grama Panchayat is attached as **Annexure No.2** The PP will be implemented the CER activities committed during the appraisal of the project. The activities proposed and the activities performed will be updated in the HYCR. The EMP suggested in the EIA report will be implemented in consultation with Local Self Government. A copy of the approved EMP was submitted at Grama Panchayat.

14	<p>In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.</p>	Complied
-----------	--	-----------------

The project proponent is using NONEL technology for blasting to reduce the ground vibration. All blasting is being conducted under the supervision of qualified persons to avoid any untoward incidents.

15	<p>Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.</p>	Complied
-----------	---	-----------------

To prevent fly rocks and suppress dust, blasting mat is being used during blasting in the mine lease area.

16	<p>Authority noticed including this quarry, there will be five quarries covering about 22 Ha area within 500 m radius. There are many crushers also working in this area. Combined impact of quarries and crushers on the environment is to be studied in detail and an environment management plan has to be prepared for treating the whole area. The Project Proponent will take the responsibility of preparing EMP with the support of other quarry owners for treating the whole area, through a recognized and other quarry owners will share the cost involved in preparation of EMP. The EMP shall be approved by SEAC. All the quarry owners will carry out the activities proposed in the EMP in their respective quarries and meet the expenditure. All the quarry owners shall mention the action taken to implement the EMP activities in their respective half yearly compliance report.</p>	Being Complied
-----------	---	-----------------------

The project proponent has constituted an Environment Monitoring Cell including all quarry owners in the vicinity of 500 meter from the periphery of instant quarry project. A meeting of EMC was convened to discuss the way forward. The minutes of the meeting is attached. The EMP suggested has approved by SEAC and SEIAA. The activities in the EMP plan is being implemented and the action taken report is being mentioned in the report.

17	<p>As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.</p>	Noted for compliance
-----------	--	-----------------------------

The PP will undertake the restoration activities with stacked OB and topsoil in the mine lease area after extraction of minerals. A progressive mine closure plan will be implanted by which growth of fodder, flora, fauna can be assured.

18	The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.	Noted for compliance
-----------	--	-----------------------------

The PP is being implemented all conditions stipulated in the EC order.

COMPLIANCE REPORT
(GENERAL CONDITIONS)
PART B

PART – B – GENERAL CONDITIONS

01	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.	Complied
-----------	---	-----------------

The PP has submitted a notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed at SEIAA. The copy of the same is attached as **Annexure No.3.**

02	All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.	Complied
-----------	---	-----------------

The PP has obtained all statutory clearances including the mining lease from Department of Mining and Geology. The details of statutory clearances are provided in the below table and attached as **Annexure from 4 to 10.**

Sl. No	Clearances	Issuing Authority	Issue date
01	Environmental Clearance	SEIAA	11-10-2022
02	Consent for Operation	KSPCB	04-11-2022
03	Explosive License	PESO	02-08-2022
04	Panchayat License	Grama Panchayat (Mazhuvanoor)	16-12-2022
05	Panchayat License	Grama Panchayat (Vengola)	18-01-2023
06	Proceeding order -Quarrying lease	Department of Mining and Geology	12-06-2023
07	Lease Deed	Department of Mining and Geology	20-06-2023

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

The PP has published an advertisement in two local newspaper widely circulated in the region within the stipulated time, one of which was in the Malayalam language. The copy of EC signed in all pages has been submitted at SEIAA. The Copy of the same is attached as **Annexure No. 11**.

04	The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.	Complied
-----------	--	-----------------

The project proponent has submitted a copy of EC at Mazhuvanoor and Vengola Grama Panchayat. The copy of the Panchayat license is attached as Annexure No. 6 & 7. The Environmental Clearance has been uploaded in the website of the company.

05	The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc.) shall be conspicuous and maintained at all times.	Complied
-----------	---	-----------------

The PP has installed fencing around the proposed mine lease area. The latitude and longitude and boundary pillar number has been marked on all boundary pillars. This will be maintained at all time. In addition to this sign boards will be installed. The photograph of fencing is attached as **Plate No.3**.

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

The details of Environmental has been prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry will be installed soon. The Photograph of the EC boars is attached as **Plate No.4**.

07	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.	Complied
-----------	---	-----------------

The Explosive is stored in magazine in isolated place. The PP has obtained explosive license and the same is attached as Annexure. Blasting mat is being used to prevent fly rock.

08	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	Complied
-----------	--	-----------------

The PP has installed warning alarm in the project site to provide warning to the public and labours that the blasting is going to happen. The blasting time is also displayed in the board. The photograph of the syron is attached as **Plate No.5**.

09	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	Complied
-----------	--	-----------------

The PP has tarred and tiled the access road to reduce the dust emission from the road during transportation of vehicle. The transportation of minerals is being done in covered trucks to contain dust emissions.

10	A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.	Complied
-----------	---	-----------------

The PP has constituted a separate Environment Monitoring Cell. An invitation was given to the representative of Biodiversity Management Committee of the Panchayath to become a part of the EMC. The EMC convenes meetings once in six months to review the activities and the minutes of the same will be a part of the HYCR. The quarrying project was started in July 2023. The minutes of the same is attached as **Annexure No.12**.

11	Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.	Complied
-----------	---	-----------------

The mining is being carried out as per the approved mining plan. The KMMC rules 2015 and the Amendments, suggestions from SEAC are incorporated and follow in the mining activity.

12	The quarrying operation (Blasting) shall be restricted between 7 AM and 5 PM.	Complied
-----------	---	-----------------

The quarrying operation (Blasting) is being restricted in between 7 am to 5 pm. The board indicating the blasting time is displayed in the quarry project site.

13	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Complied
-----------	--	-----------------

The PP has developed a rain water harvesting pond. The water from rain water will be used for dust suppression mechanism, crushing, gardening etc. The PP has installed solar panels in the project site.

14	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.	Noted for Compliance
-----------	---	-----------------------------

As per the direction of SEAC, the project proponent has reduced the depth of mining, prepared the mining plan accordingly and got approval from the department of Mining and Geology. The maximum depth of mine will not go deeper than the local ground water table.

15	The height of any bench shall not exceed five meters and breadth shall not be less than the height.	Noted for Compliance
-----------	---	-----------------------------

The height of any bench would not exceed five meters and breadth would not be less than the height. The mining is being done as per the approved mining plan.

16	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	Complied
-----------	--	-----------------

There is no perennial or intermittent natural water course and/or water resources in the project site. The project proponent has constructed necessary drainages for storm water management.

17	A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.	Complied
-----------	--	-----------------

The project proponent has left adequate buffer distance from nearest dwelling units, forest boundaries, ecologically sensitive and archeologically important areas. The distance toward various features is being abide by the project proponent.

18	The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be	Being Complied
-----------	---	-----------------------

	ensured by the project proponent.	
--	-----------------------------------	--

The project proponent has started to plant various tree saplings in the project site. An area for compensatory plantation as identified. The PP has deployed labours for the upkeep and maintenance of the planted seedlings. The photograph of the saplings planted in the project site is attached in HYCR.

19	The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broadleaved plants.	Complied
-----------	---	-----------------

The project proponent has started planting of saplings in the buffer zone around the mine lease area. The existing vegetation at the 7.5 meter buffer zone has been maintained. The photograph of planted saplings in the buffer zone is attached as **Plate No.6.**

20	Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.	Noted for Compliance
-----------	---	-----------------------------

The overburden removed from the project site during its operational period will be staked in a designated place and will be used for eco restoration in the mined out area. The eco restoration and mine closure plan will be done at the own cost of the project proponent. The available scientific standard will be followed.

21	At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted	Noted for Compliance
-----------	--	-----------------------------

	with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.	
--	---	--

The PP will retain 10 percent of the total excavated pit area as water storage area and the remaining area will be reclaimed with staked dumping of Overburden and top soil and planted with suitable indigenous plant species. Monitoring and management of rehabilitated areas will be continued until the vegetation becomes self-sustaining.

22	Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.	Complied
-----------	--	-----------------

To reduce noise and vibration the project proponent follows the measures prescribed below

1. NONEL technique is being used for blasting operation
2. Development of Green belt around the mine lease area
3. Quarrying operation during day time only
4. Regular maintenance of machineries

23	Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.	Noted for Compliance
-----------	---	-----------------------------

The PP will conduct a vibration study at specific location as mentioned in the conditions. This will be kept in office and marked in the Half Yearly Compliance Report.

24	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	Complied
-----------	---	-----------------

The Project proponent has restricted the speed of trucks entering and leaving the mine site to 25 kmph to prevent noise from empty truck.

25	Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB.	Complied
-----------	---	-----------------

The Project proponent has a crusher unit in the project site. The crushing machineries are housed with solid bricks to reduce the noise from crusher. In addition to that the PP has planted tree saplings . The DG sets in the project site is having acoustic enclosures. The noise level at the project site is regularly monitored by an approved laboratory.

26	Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.	Complied
-----------	--	-----------------

The project proponent has appointed a qualified mines manger to supervise and monitor the blasting and extraction of minerals. The blasting is done by NONEL technology.

27	Measures should be taken for maintaining noise levels below 85 dBA in the work environment.	Complied
-----------	---	-----------------

To reduce noise and vibration the project proponent will follow the measures prescribed below

1. NONEL technique is being used for blasting operation
2. Development of Green belt around the mine lease area
3. Work during day time only

4. Regular maintenance of machineries
5. Scientific preparation of blasting holes and its pattern
6. Ear plug has provided for labours
7. Closed cabin are provided to the vehicles

28	Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.	Noted for Compliance
-----------	---	-----------------------------

Since the project is in safe zone as per the CGWA, it is not necessary to take permission from the competent authorities for drawing surface water and ground water. The Project proponent has developed rain water harvesting pond in the project site for the use of crushing and other activities.

29	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.	Noted
-----------	---	--------------

There are no springs and perennial nallahs flowing in and around the mine lease area. The natural drain is being maintained for free flow of the surface runoff.

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

The project proponent has constructed catch drain and siltation ponds in the project site. The PP is intending to construct more such infrastructure for de siltation process. The stored rain water is being used for suppression of dust, green belt development,

crushing activities etc. The drain and settling ponds are regularly desilted. The photograph of the drainage and de siltation traps are attached as plates.

31	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	Being Complied
-----------	---	-----------------------

The PP has identified an observation well to monitor the ground water level. The water quality is being monitored by an approved laboratory. if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures will be carried out.

32	Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.	Complied
-----------	--	-----------------

The PP has provided garland drains and silt traps in the slopes around the core area to channelize storm water. A labour is deployed to desilt the garland drain, settling pond, de siltation traps etc. The PP is being ensured clear water is letting out from the project site with the standard prescribed by the CPCB.

33	In the case of any change(s) in the scope of the project, extent, quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the	Noted for Compliance
-----------	---	-----------------------------

	approval from the Authority as per the existing norms.	
--	--	--

The PP will apply for fresh EC, if the PP wants to change the scope of the project in terms of extent, production etc. There is no plan to transfer the EC and scope of the project at present.

34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.	Will be Complied
-----------	---	-------------------------

All stipulations and provisions under different Acts and Notification in connection with mining sector will be followed.

35	The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.	Will be Complied
-----------	---	-------------------------

The PP will dump the OB and topsoil at earmarked area and it will be used for reclamation of the mined out area. The dumping is carried out in a scientific manner to prevent any type of sliding. The slope, height, width of dump is as per the condition

mentioned above. To stabilize the dump and to prevent sliding the PP will use geotextile, plant grass and other floral species and construct retaining walls. The photograph of the dumping area with retaining wall is attached as **Plate No.7**.

36	All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.	Complied
-----------	--	-----------------

The PP regularly do the maintenance work of all machineries to reduce pollution, and efficient functioning. Disposal of spent oil is being done as per relevant rules and regulations.

37	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking center. Washing of all vehicles shall be inside the lease area.	Complied
-----------	---	-----------------

The all vehicles used for transpiration of materials is having PUC from authorized pollution checking center. The pollution checking is being done regularly. The washing of the vehicles is inside the land of project proponent.

38	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Complied
-----------	--	-----------------

To reduce air pollution, the PP is doing regular water sprinkling in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. Monitoring of Ambient Air Quality is being

carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.

39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.	Complied
-----------	---	-----------------

The PP has installed permanent sprinklers along the road side, mist spray system near to the crushing area, and deployed a vehicle as mobile sprinkling unit to suppress the dust emission from the mine lease area and other critical area in the project site.

40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.	Noted to be Complied
-----------	--	-----------------------------

The PP will implement activities committed under CER. The year wise expenditure will be mentioned in the Half Yearly Compliance Report. This project proponent is under discussion with local authorities to implement CER.

41	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.	Complied
-----------	--	-----------------

The project proponent has provide adequate personal protective equipment for the safety of labours. In addition to that, food, shelter first aid facility are provided by the project proponent.

42	The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.	Complied
-----------	---	-----------------

The insurance protection has taken by the project proponent for all skilled and unskilled labours working in the mine lease area.

43	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.	Complied
-----------	--	-----------------

To know the health status of each labours working in the mine lease area, the PP has conducted occupational health surveillance program of the workers in association with health service providers.

44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.	Complied
-----------	---	-----------------

The pits in the abandoned quarries has been using as rain water harvesting pond and aqua culture in an eco friendly manner.

45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks	No Govt. Land involved
-----------	--	-------------------------------

The instant project, extract the minerals from privet own land . There is no Govt. Land included in the EC obtained area.

46	Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure, will lead to suspension of all EC obtained for mining	Noted
-----------	--	--------------

	by the Proponent.	
--	-------------------	--

The project proponent has implemented all safety measures in the project site. The EMC is being monitored the safety measures implemented and will suggest where to enhance.

47	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	Noted to be Complied
-----------	--	-----------------------------

At present there is no plan for transfer of EC. The PP will inform the SEIAA in case the PP wants to transfer the EC and get its approvals to do the same.

48	The proponent shall submit Half Yearly Compliance Reports (1 st of June & 1 st of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31 st March every year.	Complied
-----------	---	-----------------

The PP is being submit half yearly compliance report in time at Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The same is being uploaded in the website of the PP. The PP has submitted from V to SPCB in the end of March of every year. The monitored data is attached as **Annexure No.13, 14 & 15.**

49	The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.	Noted to be Complied
-----------	--	-----------------------------

The project proponent will extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore/SEAC/SPCB/CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/information/monitoring reports.

50	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Noted
-----------	---	--------------

The PP gives importance to the conditions stipulated in the EC to be implemented.

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

The PP will implement, if the additional conditions is being imposed by the authority.

52	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	Noted
-----------	--	--------------

The condition is noted and agreed to comply.

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

There is no pending cases against the land at any court. The court order in connection with instant project will be abide by the PP.

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

There is no appeal against the Environmental Clearance at NGT till date.

55	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted
-----------	---	--------------

The PP did not conceal any fact to obtain Environmental Clearance. All data submitted at Authority is factual.

56	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	Noted
-----------	--	--------------

The PP will implement all conditions stipulated in the EC. The right of the SEIAA on alter / modify the conditions stipulated in the EC is noted.

57	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.	Complied
-----------	---	-----------------

The Project proponent is being extracted the mineral by creating benches in tune with the relevant rules and guidelines and approved mining plan. The PP has appointed qualified persons to monitor the blasting and mining operation in the mine lease area. The certificate of qualified mines manager, foreman and mines mate is attached as **Annexure No.16,17&18.**

PLATES

Plate No. 1



Drainages and siltation trap

Plate No. 2

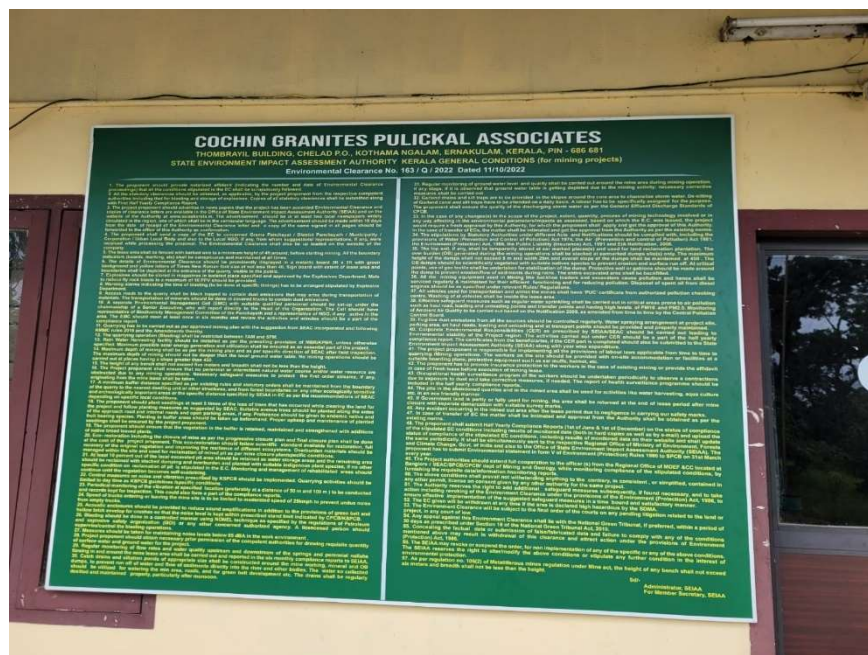


**Afforestation area
Plate No.3**



Fencing provided around the lease area

Plate No. 4



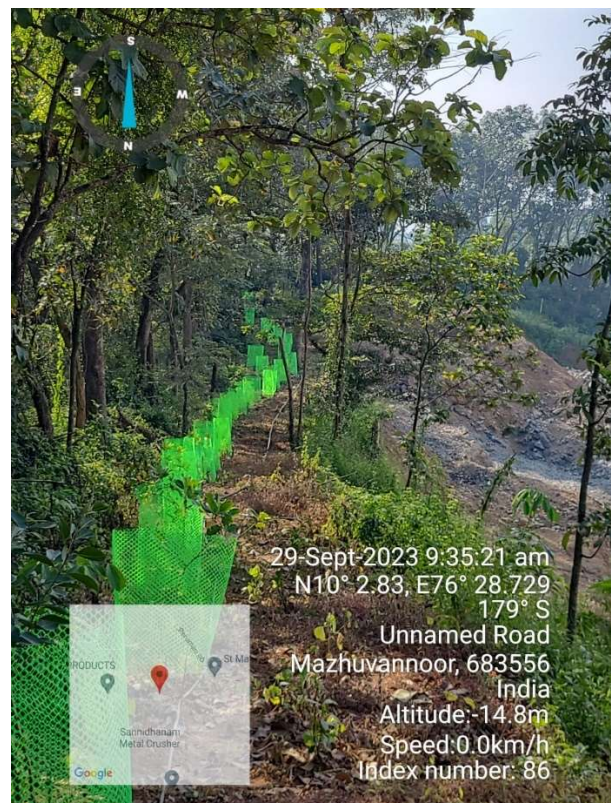
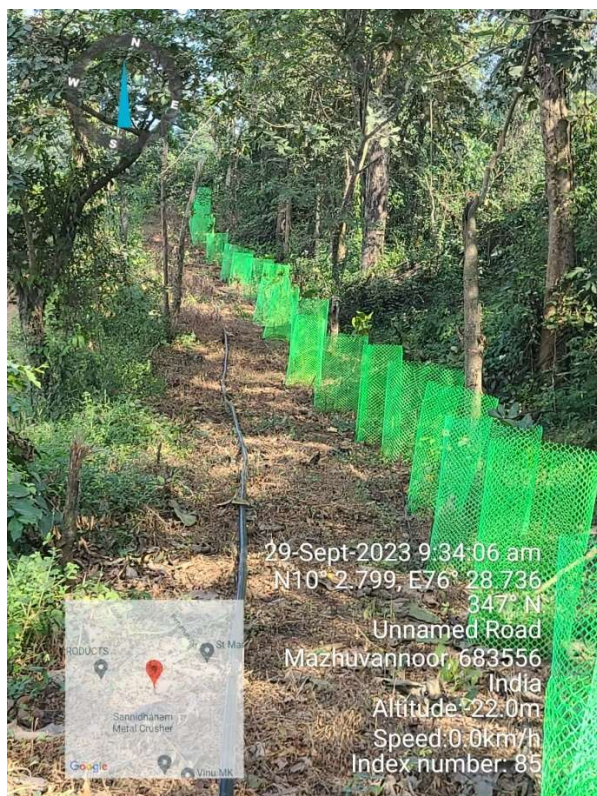
EC board

Plate No.5



Warning Alarm

Plate No.6



Plantation at 7.5 meter buffer




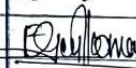

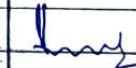
ANNEXURE

ANNEXURE No.1

3.

MINUTES OF THE MEETING OF THE REPRESENTATIVES OF THE QUARRY FORMING A CLUSTER IN NORTH MAZHUVANNUR AREA ON 15-11-2023 AT THE QUARRY OFFICE OF COCHIN GRANITES PULICKAL ASSOCIATES.

A Meeting of the representatives of the quarry forming a cluster in North Mazhuvannur area is held at the quarry office of Cochin Granites Pulickal Associates at 2 PM on 15-11-2023 to form an Environment Monitoring Cell to study and mitigate the effects of Quarrying on the environment in the North - Mazhuvannur Cluster.

Name of the Quarry	EC Number	Represented by	Signature
1. P.V. Santhosh	1783/EC3/2020/SEIAA Dated: 8-10-2021	Krishnadas	
2. Gowtham V Pavithran	542/SEIAA/KL/3886/2014 Dated: 27-02-2018	Nandulal	
3. Sanju	68/Q2022/1469/EC3/2019/- SEIAA. Dated: 19-07-2022	Sanju	
4. P.K. Prasad	EC 23B001KL180039 Dated: 15-03-2023	Elju Thomas	
5. Eldhokuruvilla	EC23B001KL188975 Dated: 15-03-2023	Remeshkumar.P	
6. Cochin Granites Pulickal Associates	EC22B001KL180424 Dated: 11-10-2022	Thampisenan	

Representative of St. Marys Super Granites expressed his inability to attend the meeting due to his personal inconvenience.

The representative of Cochin Granites Pulickal Associates (CGPA) chaired the meeting. He explained that when the application of CGPA was submitted for EC approval, only the following quarries were within 500 meters from CGPA

P.T-2

5

was forming the cluster.

1. Gowtham V Pavithran - EC.No. 542/SEIAA/KL/3886/2014
2. P.V. Santhosh - EC.No. 47/2017/DIA/KL/MIN/6945/2017
3. M.I. Mohammed - Proceeding order-No: 122/2008/09/4897/H3/2002
4. Cochin Granite Pulickal Associates = EC.No. 45/SEIAA/KL/7164/2012

Now the situation is changed and 7 quarries mentioned above were forming the cluster within 500 meters area of Cochin Granites Pulickal Associates.

Mr. Thampisenan explained the need of forming an Environment-Management Cell for the cluster to study the impact of quarrying in the cluster and develop Environment Management Plan to mitigate its impact on the environment. It was unanimously decided to form an Environment Management Cell represented by all the quarries present and to form an Environment-Management Plan to mitigate impact of quarrying on the environment in the north Mazhuvannoor cluster area.

Mr. Ramesh Kumar.P explained that blasting forms an integral part of quarrying and it becomes necessary to control the timings of blasting by individual quarries, so that it does not overlap and thus noise pollution can be minimised. This was discussed in detail and following schedule of timings for blasting were decided for each of the individual quarries.

P.T.O.

7

Name of the quarry	Blasting: Morning	Blasting: Noon	Blasting: Evening
P.V. Santhosh	10.00AM - 10.10AM	1.00PM - 1.10PM	4.50PM - 5PM
Gowtham V Pavithran	9.40AM - 9.50AM	12.40PM - 12.50PM	4.40PM - 4.50PM
Sanju	9.30AM - 9.40AM	12.30PM - 12.40PM	4PM - 4.10PM
P.K. Prasad	10.20AM - 10.30AM	1.20PM - 1.30PM	4.30PM - 4.40PM
Eldhokuvilla	10.10AM - 10.20AM	1.10PM - 1.20PM	4.10PM - 4.20PM
Cochin Granites Pulickal Associates	9.50AM - 10.00AM	12.50PM - 1.00PM	4.20PM - 4.30PM

The representatives of each of the quarry Confirmed that they are using Non-FL technology for blasting.

Necessity of restricting the vehicle flow in the roads of cluster area during restricted hours for tipper was discussed in detail. It was decided to ensure that no vehicle is sent out from the quarry during restricted hours and none of the vehicle belonging to the quarry will be allowed to ply during this period.

Increased pollution of the environment due to increased vehicle traffic was also discussed in detail. It was reported that the flow of vehicle from quarries after the restricted hours are very heavy. It was decided to control the traffic flow from individual quarries, after restricted hours, by mutual consultation.

It was also decided to restrict the speed of vehicle belonging to the quarries in this cluster to a maximum of 30 KMPH. It was also decided to do the maintenance of vehicles as well as DG sets to ensure emission of SO₂.


NOx & CO, as per the norms. Decision on training of drivers and operators was also discussed in detail for avoiding the excess emission of SO₂, NO_x & CO.

It was also decided to entrust the responsibility of sprinkling water to suppress the dust in the roads near to each of the individual quarry, with respective quarry.

Decision was taken to make a comprehensive Environment Management Plan covering all the aspects of impact of Quarrying on Environment and measures to mitigate them.

Representative of Cochin Granite Pulickal Associates thanked all the participants for their co-operation and informed that the date for the next meeting will be informed sufficiently in advance.

Meeting concluded at 4.P.M.


Champi Suresh

Minutes of Cluster EMC

Annexure No.2

COCHIN GRANITES PULICKAL ASSOCIATES

Registered Office : Thombrayil , Chelad P.O., Kothamangalam, Ernakulam Dist.
Kerala, Pin : 686 681, Land Phone : 0484 - 2308020, Mob : 9447707173
E-mail : cghomail@gmail.com



ELDHO KURUVILA
MANAGING PARTER

Date: 21.03.2024

The Secretary,
Mazhuvannoor Grama Panchayat
Mazhuvannoor

Dear Madam,

Sub: Utilization Plan for CER funds

Ref:1. Meeting held at your conference hall to discuss about CER activities

2: Your Letter No: 5269/2023 dated 29.02.2024

As we have informed to you in our above referred meeting at your conference hall ,we have set apart a fund of Rs. 24.5 lakhs for our CER activities in Mazhuvannoor Panchayat .The breakup of the CER fund utilization is as follows;

Sl No.	Head of CER Expenditure	Amount in Rs in Lakhs
1	Revival of Cheenikuzhy Pond	5
2	Recharge – 30 Wells	7.5
3	Solar High Mast Lights 12 Nos	12
	Total	24.5

The budget is prepared in line with the instruction given by State Environment Impact Assessment Authority, Kerala. The above CER funds will be utilised before 30th June 2025.Out of the above, we are proposing to utilise Rs 12.5 lakhs before 31st March 2024.The proposal breakup plan of the expenditure is as follows;

1. Solar High Mast Lights (10 nos) Rs 10lakhs
2. Water harvesting well Recharge 10 wells Rs 2.5 lakhs

We request you to kindly co-operate with us to make the CER activities beneficial to the general public of Mazhuvannoor. In this regard, we request you to inform us of the locations apt for the installation of 10 Nos of Solar High Mast Lights & locations for 10 Nos of well – recharge. Kindly inform us of the same for us to initiate these works.

Thanking You,
Sincerely Yours

For* Eldho Kuruvilla
Managing Partner



Cheenikuzhy, North Mazhuvannoor P.O., Perumbavoor, Ernakulam Dist., Kerala State - 686 669
Mob : 8606454344, E-mail : cgpassociates@yahoo.com

Letter to Grama Panchayat

Annexure No.3



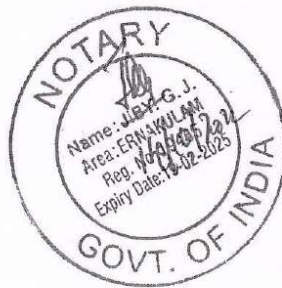
കേരളം കേരल KERALA

DS 917092

AFFIDAVIT

I, Eldho Kuruville, aged 44, S/o of T U Kuruville, Managing partner and Authorized signatory of M/s Cochin Granites Pulickal Associates having our correspondence address at Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala, Pin: 686681, do hereby affirm and confirm as follows:-

1. That, we propose to develop an expansion of existing Building Stone Mine (Quarry, Minor Mineral Mining) project at Re-Survey No. 283, 282/3-1, 282/3- 3pt. of Mazhuvannoor Village & 284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 (Block No: 28) of Arackappady Village, Kunnathunad Taluk, Ernakulam, Kerala for an area of 8.7668 Ha.



For Cochin Granites Pulickal Associates

[Signature]
Managing Partner



DS 20487
14-10-2022

M.R. Padmanabhan
M. R. PADMANABHAN
High Court Stamp Vendor
ERNAKULAM
Managing Partner Cochin Granites Pulickal Associates.
Chelad. P.O.



കേരളം KERALA

DS 917093

- 2. That, the Environmental Clearance proceedings number and date are EC Identification No. EC22B001KL180424 & File No. 1392/EC2/2019/SEIAA dated 11.10.2022.
- 3. That, all the conditions stipulated in the Environmental Clearance would be scrupulously followed.

For Cochin Granites Pulickal Associates

[Signature]

DEPONENT
Managing Partner

Verification :

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

For Cochin Granites Pulickal Associates

[Signature]
DEPONENT

Managing Partner

Place : Ernakulam
Date : 14.10.2022

[Signature]
14/10/2022

JIBY G. J
ADVOCATE & NOTARY
CHAMBER No. 237
INDIA CHAMBER COMPLEX
HIGH COURT BUILDINGS
ERNAKULAM - 682 031. Mob. 9846189595



MANSIDAS Kodner Cochin Granites
M. R. PADMANABHAN Pulickal associates.
Court Stamp Vendor
ERNAKULAM
Choked. per

26488
14.10.2022

Copy of Affidavit

ANNEXURE No.4

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

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

Sub: SEIAA - Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala. - Granted – Orders issued.

**State Level Environment Impact Assessment Authority,
Kerala**

Proposal No. SIA/KL/MIN/144152/2020

File No. 1392/EC2/2019/SEIAA

- Ref: 1. Application from Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates received on 20/02/2020.
2. Minutes of the 130th meeting of the SEAC held from 4th to 06th July, 2022.
3. Minutes of the 117th SEIAA meeting held on 30th & 31st August 2022.
4 G.O (Rt.) No.29/2019/Envr dt.12.04.2019.

ENVIRONMENTAL CLEARANCE NO. 163/Q/2022

Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala., submitted an application for Environmental Clearance via PARIVESH on 20/02/2020 for the Granite Building Stone Quarry Project for an area of 8.7668 Ha. in Re-Survey Nos. 283, 282/3-1, 282/3- 3pt. of Mazhuvannoor Village & in Re Survey Nos. 284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 (Block No: 28) of Arackappady Village, Kunnathunad Taluk, Ernakulam, Kerala. The project details are as follows:



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

To,

The MANAGING PARTNER
 COCHIN GRANITES PULICKAL ASSOCIATES
 THOMBAYIL BUILDING, CHELAD P.O., KOTHAMANGALAM,
 ERNAKULAM, KERALA-686682 -686682

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/KL/MIN/144152/2020 dated 22 May 2020. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC22B001KL180424 |
| 2. File No. | 1392/EC2/2019/SEIAA |
| 3. Project Type | Expansion |
| 4. Category | B2 |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | Expansion of Existing Building Stone Mine (quarry) project of M/s Cochin Granites Pulickal Associates at Survey Nos. 283, 282/3-1, 282/3-3pt of Mazhuvannoor Village and Survey Nos. 284/1-2, 284/1-3, 2 |
| 7. Name of Company/Organization | COCHIN GRANITES PULICKAL ASSOCIATES |
| 8. Location of Project | Kerala |
| 9. TOR Date | N/A |

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

Date: 11/10/2022

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

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

This is a computer generated cover page.

SL. No.	Particulars	Details
1	Name of the Project	Granite Building Stone Quarry Project of Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates,
2	Proposed Activity	Mining of Granite Building Stone
3	Name of the Sector & Schedule No. (in the EIA Notification, 2006)	Non Coal mining, Activity 1(a), Category B2
4	Name & Address of the Project Proponent	Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala
5	Project Location	
	a) Re-Survey Nos.	283, 282/3-1, 282/3- 3pt. of Mazhuvannoor Village & 284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 (Block No: 28) of Arackappady Village
	b) Revenue Village	Mazhuvannoor and Arackappady
	c) Taluk	Kunnathunad
	d) District	Ernakulam
6	Geo Co-ordinates	Latitude 10°02'42.8" N to 10°02'57.4" N Longitude 76°28'32.4" E to 76°28'44.7" E
7	Extent (in Acre/Hectare)	Total 8.7668 Ha. 7.2831Ha. (Mazhuvannoor Village) 1.4837 Ha (Arackappady Village)
8	Project Cost	Rs. 14.22 Crores
9	Production Details	4,50,000 TPA
10	Water Requirement	5 KLD (1 KLD for domestic consumption; 2 KLD for dust suppression and 2 KLD for green belt development).
11	Date of Field Inspection	5-7-2021

CER Details

Sl. No.	Particulars	Amount
1.	a. Revival of Cheenikuzhi Pond b. Well Recharge (50 wells) - Rain Water Harvesting c. Renewable energy (5 kWp solar plant, on grid and 20 solar lights)	Rs. 40 Lakhs

2. In the 130th meeting of the SEAC, the Committee examined the proposal, discussed the field inspection report and evaluated the additional documents submitted by the proponent including the latest Mining Plan on 09.03.2022. The proponent revised the Mining Plan as per the observation made by the SEAC and accordingly the revised estimate of mineable reserve is 23, 14, 378 MT and the revised Life of Mine is 10 years. **The Committee recommended the EC with a validity of 10 years subject to review by SEAC after 5 years through filed verification to ensure that** mining is carried out sustainably as per the EC conditions, with certain Specific Conditions in addition to General Conditions.

3. In the 117th SEIAA Meeting, the Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan and then to extend the EC period to cover the project life of 10 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

1. The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.

- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through filed verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
- 5. The garland canal, silt traps, siltation pond and outflow channel should be provided considering the entire project area prior to the commencement of mining.*
- 6. The garland drain along with silt traps, siltation tank and outflow channel should be desilted and cleaned periodically and geotagged photographs should be incorporated in the Half Yearly Compliance Report.*
- 7. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
- 8. Compensatory afforestation should be done with indigenous fruit trees and the geotagged photographs of the afforested place should be submitted along with HYCR. The activity should be commenced before the start of quarrying operations. The PP committed planting of native trees @ 1:5 for every tree cut from the project area.*
- 9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 10. Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*

11. As there are two more working quarries working within 500 Mts. distance from the project site, all the mitigation plans suggested in the Environmental Management Plan derived based on the EIA should be implemented for the entire area in consultation with other project proponents. An Environmental Monitoring Cell should be constituted for the entire area by incorporating all the quarry owners and the compliance of this direction shall be included in the HYCR.

12. All the concerns expressed during the Public Consultation process should be addressed without fail and it has to be mentioned in the half yearly compliance report.

13. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.

14. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.

15. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.

16. Authority noticed including this quarry, there will be five quarries covering about 22 Ha area within 500 m radius. There are many crushers also working in this area. Combined impact of quarries and crushers on the environment is to be studied in detail and an environment management plan has to be prepared for treating the whole area. The

Project Proponent will take the responsibility of preparing EMP with the support of other quarry owners for treating the whole area, through a recognized and other quarry owners will share the cost involved in preparation of EMP. The EMP shall be approved by SEAC. All the quarry owners will carry out the activities proposed in the EMP in their respective quarries and meet the expenditure. All the quarry owners shall mention the action taken to implement the EMP activities in their respective half yearly compliance report.

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

18. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

4. Environmental Clearance as per the EIA Notification, 2006 is hereby accorded for the Granite Building Stone Quarry Project of Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala, for an area of 8.7668 Ha, in Re-Survey Nos. 283, 282/3-1, 282/3- 3pt. of Mazhuvannoor Village & Re Survey Nos. 284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 (Block No: 28) of Arackappady Village, Kunnathunad Taluk, Ernakulam, Kerala, **initially for a period of 5 years from the date of execution of valid mining lease from the Department of Mining and Geology, as per SO 1807(E) dated 12.04.2022 of MoEF & CC, for the quantity mentioned in the approved Mining Plan, and to be extended to cover the project life of 10 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the environment in the project region by violating EC conditions**, subject to the Specific Conditions in Para 3 above, and all the environmental impact mitigation and management measures undertaken by the Project Proponent in the Form I, EMP, PFR and Mining Plan

submitted to SEIAA. The assurances and clarifications given by the proponent will be deemed to be a part of this Proceedings as if incorporated herein. Also the General Conditions for projects stipulated for mining (items 1 to 57), mentioned below will be applicable and have to be strictly adhered to.

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

6. Validity of the Environmental Clearance will be initially for a period of **Five (5) years** from the date of execution of valid mine lease from Mining & Geology Department as per SO 1807(E) dated 12.04.2022 of MoEF & CC, subject to earlier review of EC in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry. The validity shall to extend to cover the project life of 10 years, as mentioned in para (4).

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

8. The Half Yearly Compliance Report (HYCRs) with its contents, covering letter, compliance report and environmental monitoring data have to be uploaded in the PARIVESH portal and the website of the Project Proponent. The HYCR with the name of the project, EC No and date & the period of submission should be sent to the Regional Office of MoEF & CC & to SEIAA by email only at email ID rosz.bng-mef@nic.in & seacseiaakerala@gmail.com, respectively. Hardcopy of HYCRs shall not be acceptable.

9. The given address for correspondence with the authorised signatory of the project is Sri. Eldho Kuruvilla, Managing Partner, M/s Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O., Kothamangalam, Ernakulam, Kerala.

GENERAL CONDITIONS

1. The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.
2. All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.
3. The project proponent should advertise in news papers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in. The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
4. The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on

- the website of the company.
5. The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.
 6. The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
 7. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.
 8. Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.
 9. Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.
 10. A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.
 11. Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.
 12. The quarrying operation (Blasting) shall be restricted between 7 AM and 5PM

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

- leaved plants.
20. Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.
 21. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
 22. Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
 23. Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.
 24. Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.
 25. Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB.
 26. Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive

- safety organization (GOI) or any other concerned authorized agency.
A licensed person should supervise/ control the blasting operations.
27. Measures should be taken for maintaining noise levels below 85 dBA in the work environment.
 28. Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.
 29. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly compliance reports to SEIAA.
 30. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps, to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.
 31. Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.
 32. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.
 33. In the case of any change(s) in the scope of the project, extent, quantity, process of mining technology involved or in any way affecting the environmental parameters/impacts as assessed, based on which the E.C was issued, the project would require a fresh appraisal

- by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.
34. The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
 35. The top soil, if any, shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8m and width 20m and overall slope of the dumps shall be maintained at 45⁰. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.
 36. All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
 37. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area.
 38. Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high

- levels of PM₁₀ and PM_{2.5}. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.
39. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.
 40. Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.
 41. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.
 42. The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.
 43. Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed. The report of health surveillance programme should be included in the half yearly compliance reports.
 44. The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco friendly manner.
 45. If Government land is partly or fully used for mining, the area shall

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

- implementation of the suggested safeguard measures in a time bound and satisfactory manner.
52. The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.
53. The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.
54. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
55. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
56. The SEIAA may revoke or suspend the order, for non implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.
57. As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.

Sd/-
Administrator, SEIAA
For Member Secretary, SEIAA

To,
Sri. Eldho Kuruvilla,
Managing Partner,
M/s Cochin Granites Pulickal Associates,
Thombrayil Building,
Chelad P.O.,
Kothamangalam,
Ernakulam, Kerala

Copy to,

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

Signature Not Verified
Digitally signed by D. Venu V IAS
Member Secretary
Date: 10/11/2022 3:38:57 PM

EC Identification No. - EC22B001KL180424 File No. - 1392/EC2/2019/SEIAA Date of Issue EC - 11/10/2022 Page 18 of 18

Copy of Environmental Clearance

ANNEXURE No.5**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. : KSPCB/ER2/ICO/10013350/VAR/2022

Date of issue : 04-11-2022

CONSENT VARIATION ORDER

Consent No : KSPCB/ER2/ICO/10013350/VAR/2022

Valid upto : 30-09-2027

Ref:Consent no.R15ERNA-CTO-R-645328 dated 11.06.2018 valid up to 30.06.2023

The Integrated Consent to Operate issued as per reference above to M/s QUARRY OF COCHIN GRANITES PULICKAL ASSOCIATES , THOMBRA YIL BUILDING, CHELAD P.O , KOTHAMANGALAM, ERNAKULAM - 686681. (Represented by its Managing Partner, Shri. Eldho Kuruvilla) is hereby modified & issued to M/s QUARRY OF COCHIN GRANITES PULICKAL ASSOCIATES , THOMBRA YIL BUILDING, CHELAD P.O , KOTHAMANGALAM, ERNAKULAM - 686681. (Represented by its Managing Partner, Shri. Eldho Kuruvilla).

The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

GENERAL CONDITIONS

1	Capital Investment	Rs.1422Lakh
2	Annual Fee	Rs.87,000/-
3	Fee remitted	Rs.4,50,000/-(Rs.15,000/- excess)
4	Land Area	8.7668Ha
5	Village	Arackappady,Mazhuvannoor
6	Sy. no.	283,282/3-1,282/3-3Pt,284/1-2,284/1-3,284/2-2 Pt,284/2-3 Pt,285/4,283/2-5-2,283/2-3-2,282/1-3-1-2

SPECIFIC CONDITIONS

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 on or before 30.07.2027. Late application will be accepted with a fine or late fee as applicable.

2.This consent is issued based on the Judgement dated 25/10/2021 of the Hon'ble Supreme Court in CA No:6273/2021 and connected matters, Order dated 14/12/2021 of Hon'ble Supreme Court in MA.No:1904/2021, Judgement dated 10/11/2021 of Hon'ble High Court of Kerala in WP© 2773/2021 andJudgement dated 10/12/2021 of Hon'ble High Court of Kerala in WP© 27178/2021.

3.This consent is issued subject to any order that may be passed by the Honorable Supreme Court or the Hon'ble NGT in the connected matters.

Digitally signed by  BABURAJAN P K
Date: 2022.11.04 10:39:20 IST

SIGNATURE OF ISSUING AUTHORITY

CHIEF ENVIRONMENTAL ENGINEER

To


M/s QUARRY OF COCHIN GRANITES PULICKAL ASSOCIATES
THOMBRA YIL BUILDING, CHELAD P.O , KOTHAMANGALAM, ERNAKULAM - 686681. (
Represented by its Managing Partner, Shri. Eldho Kuruvilla)
E-Mail : eldhok@gmail.com
Contact Number :9447707173,

1.This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to www.keralapcbonline.com 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 Phoenix website.

Copy of PCB Consent to Operate

ANNEXURE No.6


भारत सरकार | Government of India
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) | 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.कक्कनाड कोच्ची | CSEZ PO Kakkannad Dist. Ernakulam Ernakulam 682037
 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

संख्या (No.): E/SC/KL/22/1223(E54740) दिनांक (Date): 02/08/2022

सेवा में | To,
 Shri ELDHO KURUVILLA, Cochin Granites Pulickal Associates,
 North Muzhuvanoor P.O. Kunnathunad taluk, Town/Village - North Muzhuvanoor
 District-ERNAKULAM, State-Kerala, Pincode - 682019

विषय: Survey No.282/3-2 of Block 29, , ग्राम Muzhuvanoor(v) Kunnathunad Taluk, Ernakulam Dist, जिला ERNAKULAM, राज्य Kerala में मेसर्स Shri ELDHO KURUVILLA, Cochin Granites Pulickal Associates द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञापि सं E/SC/KL/22/1223(E54740) के संशोधन संदर्भ में।
 (आरेखण / सुविधाएं / परिसर में परिवर्तन)
 Subject: Possession for Use of Explosives from magazine situated at Survey No.:282/3-2 of Block 29, , Muzhuvanoor(v) Kunnathunad Taluk, Ernakulam Dist, Dist. ERNAKULAM, Kerala Licence No.: E/SC/KL/22/1223(E54740) granted in Form LE-3 of Explosives Rules, 2008 - (Amendment in Drawings/Facilities/Premises).

महोदय | Sir,
 आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 01/08/2022 का संदर्भ ग्रहण करें।
 Please refer to your letter no. Nil dated 01/08/2022.

अनुज्ञापि संख्या E/SC/KL/22/1223(E54740) (1) INTIMATION REGARDING QUARRYING OPERATIONS AT Sy.Nos.283,282/3-1,282/3-3pt, MAZHUVANNOOR VILLAGE, KUNNATHUNADU TALUK AND Sy.Nos. 284/1-2,284/1-3,284/2-2pt,284/2-3pt,285/4,283/2-5-2,283/2-3-2,282/1-3-1-2 ARACKAPPADY VILLAGE, KUNNATHUNADU TALUK , ERNAKULAM DISTRICT VIDE LETTER OF INDENT NO.5067/M3/2018 DATED 19/05/2018 OF THE DIRECTORATE OF MINING & GEOLOGY, THIRUVANATHAPURAM IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.)NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES के संदर्भ में यथा संशोधित कर भेजी जा रही है।
 The Licence No.: E/SC/KL/22/1223(E54740) is forwarded herewith duly amended in respect of followings :

(1) INTIMATION REGARDING QUARRYING OPERATIONS AT Sy.Nos.283,282/3-1,282/3-3pt, MAZHUVANNOOR VILLAGE, KUNNATHUNADU TALUK AND Sy.Nos. 284/1-2,284/1-3,284/2-2pt,284/2-3pt,285/4,283/2-5-2,283/2-3-2,282/1-3-1-2 ARACKAPPADY VILLAGE, KUNNATHUNADU TALUK , ERNAKULAM DISTRICT VIDE LETTER OF INDENT NO.5067/M3/2018 DATED 19/05/2018 OF THE DIRECTORATE OF MINING & GEOLOGY, THIRUVANATHAPURAM IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.)NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES.

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

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	200	Kg.
2	Safety Fuse	6	1	0	1000	Mtrs
3	Electric Detonators	6	3	0	10000	Nos.
4	Ordinary Detonator	6	3	0	5000	Nos.

किस्सी एक क्वैटर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञापि के लिए लागू) : 20 गुना
 Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)]: 20 times as above.

यह अनुज्ञापि दिनांक 31 मार्च 2024 तक प्रवृत्त रहेगी।
 This Licence shall remain valid till 31st day of March 2024.

अनुज्ञापि के अगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।
 For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully
 (पी.के.राणा | Dr. P. K. Rana)
 उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:
 1. District Magistrate, ERNAKULAM, Kerala with reference to his Noc No: D.Dis/38822/2010/M4 NOC No.02/2011 Dated: 01/03/2011

अनुज्ञप्ति प्ररूप 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 I 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/SC/KL/22/1223(E54740)
वार्षिक फीस रूपए (Annual Fee Rs): 3000/-

1. Licence is hereby granted to
Shri ELDHO KURUVILLA, Cochin Granites Pulickal Associates (अधिभोगी / Occupier : Shri Eldho Kuruvilla Mg.Partner), North Muzhuvanoor.P.O.Kunnathunad taluk, Town/Village - North Muzhuvanoor, District-ERNAKULAM, State-Kerala, Pincode - 682019

को अनुज्ञप्ति अनुदत्त की जाती है।

2. अनुज्ञप्ति धारी की प्रास्थिति | Status of licensee : **Individual**
अनुज्ञप्ति निम्नलिखित प्रयोजनों के लिए विधिमन्य है।
Licence is valid only for the following purpose.
उपरोक्त अनुज्ञप्ति के लिए उपयोग के लिए : **Detonator, - के उपयोग के लिए**

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

क्र. सं.	नाम और विवरण	वर्ग और प्रभाग	उप-प्रभाग	मात्रा किसी एक समय में
Sr. No.	Name and Description	Class & Division	Sub-division	Quantity at any one time
1.	Nitrate Mixture	2, 0	0	200 Kg.
2.	Safety Fuse	6, 1	0	1000 Mtrs
3.	Electric Detonators	6, 3	0	10000 Nos.
4.	Ordinary Detonator	6, 3	0	5000 Nos.

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए)
(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3(b) and (c)] : **20 times as above.**

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्ति परिसर की पृष्ठ होती है।
The licensed premises shall conform to the following drawing(s) :
रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1223(E54740)
दिनांक (Dated) 02/08/2022

6. अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:
Survey No. 282/3-2 of Block 29, . . ग्राम (Town/Village) : Muzhuvanoor (N) Kunnathunad Taluk, Ernakulam Dist
जिला (District) : **ERNAKULAM** राज्य (State) : **Kerala** पिनकोड (Pincode) : **682019**
दूरभाष (Phone) : **0048423004936** ई. मेल (E-Mail) : **Fatimatoun** फैक्स (Fax) :
नवीनीकरण के पृष्ठानक के लिए स्थान
Space for Endorsement of Renewal

7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।
The licensed premises consist of following facilities.
M & S type poroable magazine manufactured by industrial explosives ltd nagpur and D (S17) fabricated by M/s. Thekkans

8. अनुज्ञप्ति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.
1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निरमाण संबंधी और अन्य विवरण दर्शित करते हुए।)
Drawings (showing site, construction and other details) as stated in serial No. 5 above.
2. अनुज्ञप्ति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञप्ति की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.
3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञप्ति तारीख **31 मार्च 2016** तक विधिमन्य रहेगी। This licence shall remain valid till **31st day of March 2016**.
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 अनुज्ञप्ति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिबंधित की जा सकती है, जहां वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 09/05/2011
संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/01/2013
- Amendment in Drawings/Facilities/Premises dated : 23/01/2013
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 30/01/2014
- Amendment in Drawings/Facilities/Premises dated : 22/06/2017
- Amendment in Drawings/Facilities/Premises dated : 02/08/2022

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
27/10/2021	31/03/2024	Sd/- Dy. Chief Controller of Explosives, Ernakulam


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

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

Digitally signed by Dr. P. K. RANA
Reason: Licence No. : E/SC/KL/22/1223
Location:Ernakulam [E54740]
Date:2022.08.02 03:58:10 +05:30

Copy of Explosive


ANNEXURE No.7




മഴുവനൂർ ഗ്രാമപഞ്ചായത്തിൽ നിന്നും
1994ലെ കേരള പഞ്ചായത്ത് രാജ് ആക്ട് (1994ലെ 13) 232, 233, 234, 254 എന്നീ വകുപ്പുകളും
അതേ തുടർനുള്ള ചട്ടങ്ങളും അനുസരിച്ച്
ഫാക്ടറികൾ, വ്യാപാരങ്ങൾ, സംരംഭങ്ങൾ, മറ്റു സേവനങ്ങൾ എന്നിവയ്ക്കായി നൽകുന്ന
ലൈസൻസ്

നമ്പർ : 400632/RPTL20/GPO/2023/1816 തീയതി : 10.04.2023

ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	എൽദോ കരുവിള, മാനേജിംഗ് പാർട്ട്ണർ, കൊച്ചിൻ ഗ്രാനൈറ്റ്സ് പ്ലിക്കൽ അസോസിയേറ്റ്സ് തോട്ട്രായിൽ ബിൽഡിംഗ് , ചേലാട് പി ഒ , കോതമംഗലം	
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	കൊച്ചിൻ ഗ്രാനൈറ്റ്സ് പ്ലിക്കൽ അസോസിയേറ്റ്സ്, ചീനിക്കുഴി	
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	മഴുവനൂർ വില്ലേജ് സെർവ്വെ നം 283,282/3-1(282/3),282/3-3 സ്ഥലത്ത് പാറ മുറിച്ച് സംഭരിച്ച് വിൽപന നടത്തുന്നതിന്	
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	19	
ലൈസൻസ് കാലയളവ്	01-04-2023 മുതൽ 31-03-2024 വരെ	
ഇടപാടായി ലൈസൻസ് ഫീസ്	15000 /- രൂപ	രസീത് നം: 1220106303 തീയതി: 27-02-2023
തൊഴിൽക്കരം	2500 /- രൂപ	രസീത് നം: 1230106303 തീയതി: 27-02-2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപപത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	1. KSPCB/ER2/ICO/10013350/VAR/2022 Valid up to 30/09/2027 2.163/Q/2022 No Enviornmental clearance from SEIAA KERALA Validity Initially For a period of 5 YEARS From the date of Execution of valid mining lease from the Department of Mining and Geology As per SO1807(E) dt 12/04/2022 of MoEF & CC for the quantity mentioned in the approved Mining Plan 3. E/SC/KL/22/1223/(E54740) dt 02/08/2022 Valid up to 31/03/2024 From PESO 4. Mining Mates certificate of competency certificate No MR/SZ/0169 From Board of Mining Examinations 5. Letter of indent No 5067/M3/2018 dt 19/05/2018	



OFFICE OF THE MAZHUVANNOOR GRAMA PANCHAYAT
Airapuram P.O.
Ernakulam (Dist.)
PIN-683 541



മുഖ്യമന്ത്രി
MAZHUVANNOOR GRAMPANCHAYAT
AIRAPURAM P.O, ERNAKULAM (DT)
Pin-683 541

Copy of Panchayat License from Mazhuvanoor

ANNEXURE No.8



നമ്പർ: 74/2023-2024/SC1/1386/2023 തീയതി: 01/04/2023

വെങ്ങോല ഗ്രാമപഞ്ചായത്ത്
വെങ്ങോല പി.ഒ., എറണാകുളം (ജില്ല)
 പിന്: 683556, ഫോൺ: 4842522432, ഇ-മെയിൽ : vengolagp@gmail.com

**വ്യവസായം, വാണിജ്യം, സംരക്ഷണം, മറ്റ് സേവനങ്ങൾക്കുള്ള
 ലൈസൻസ്**

(കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FTE & OS ലൈസൻസ് ചട്ടങ്ങൾ 1996)

ലൈസൻസിയുടെ പേര്	ELDHO KURUVILA (MANAGING PARTNER)		
ലൈസൻസിയുടെ മേൽവിലാസം	COCHIN GRANITES PULICKAL ASSOCIATES, THOMBRAVIL HOUSE, CHELAD P.O		
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	COCHIN GRANITES PULICKAL ASSOCIATES, CHEENIKUZHI		
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	260 HP പാറപൊട്ടിച്ച് സംഭരിച്ച വിൽപ്പന നടത്തുന്നതിന്		
വാർഡ് നമ്പർ/കെട്ടിട നമ്പർ	XVI/284/1-2, 284/1-3, 284/2-2pt, 284/2-3pt, 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2		
ലൈസൻസ് കാലാവധി	01/04/2023 മുതൽ 31/03/2024 വരെ		
ലൈസൻസ് ഫീസ് മോട്ടോർ ഫീസ് തൊഴിൽ നികുതി	തുക	രസീത് നമ്പർ	തീയതി
	20000 /- രൂപ	1220101152	17/03/2023
	2500 /- രൂപ	1220101152	17/03/2023
ലൈസൻസ് അനുവദിക്കുന്നതിന് ഹാജരാക്കിയ നിരീക്ഷണ പത്രങ്ങളുടെ വിവരങ്ങൾ (നമ്പർ, തീയതി, കാലയളവ്, നൽകിയ അധികാര സ്ഥാപനം)	1. LICENCE 18.01.2023-31.03.2023, MINING MATES CERTIFICATE OF COMPETENCY, MR/SZ/0169 Valid upto 28/2/2027 2. SEIAA IDENTIFICATION NO. EC22B001KL180424, dated 11/10/2022, Explosive Licence valid up to 31/3/2024 3. PCB NO. KSPCB/ER2/ICO/10013350/VAR/2022 valid upto 30.09.2027. ബഹു.കേരളഹൈക്കോടതിയുടെ WPC 37864/2022 നമ്പർ കേസിൽ വിധേയം		

ഓഫീസ് മുദ്ര



സെക്രട്ടറി

വെങ്ങോല ഗ്രാമപഞ്ചായത്ത്



Tool developed by:// Ansar Thachayil

Copy of Panchayat License from Vengola

Annexure No.9

DMG/593/2022-M3

934-002/23/FCS DMG
1369091/2023**PROCEEDINGS OF THE DIRECTOR OF MINING & GEOLOGY,
THIRUVANANTHAPURAM, KERALA
(Present : Devidas.N, IAS)**

Sub:- Department of Mining and Geology - Mines & Minerals - Minor Mineral
Granite (Building Stone)- Quarrying Lease to M/s. Cochin Granites
Pulickal Associates, Thombrayil Building, Chelad . P.O,
Kothamangalam, Ernakulam District - 686 681. (Represented by its
Managing Partner, Shri. Eldho Kuruvila) - sanctioned - orders - issued -
reg.

- Ref:-
1. Application dated 28/10/2017 from M/s. Cochin Granites Pulickal Associates, Thombrayil Building, Chelad, P.O., Kothamangalam, Ernakulam District - 686 689. (Represented by its Managing Partner, Shri. Eldho Kuruvila)
 2. Letter No. DOE/2487/E2/17 dated 25/04/2018, 01/02/2023 from the Geologist, District Office, Ernakulam.
 3. Letter of Intent No.5067/M3/2018 dated 19/05/2018 issued by Director of Mining and Geology.
Environmental clearance No.163/Q/2022, issued vide Proposal
 4. No.SIA/KL/MIN/144152/2020 Dated 11/10/2022 by the State Environment Impact Assessment Authority, Kerala.
Integrated consent to operate No.
 5. KSPCB/ER2/ICO/10013350/VAR/2022 dated 04/11/2022 issued by Kerala State Pollution Control Board Ernakulam (valid till 30/09/2027).
Explosive License No. E/SC/KL/22/1223(E54740) dated
 6. 02/08/2022 issued by Petroleum and Explosives Safety Organization, Ernakulam (valid till 31.03.2024).
Dangerous and Offensive Trade License No.
 7. 400632/RPTL20/GPO/2023/1816 dated 10/04/2023 issued by the

DMG/593/2022-M3

934493/2023/FCS DMG

1369091/2023

Secretary Mazhuvanoor Grama Panchayath(valid till 31/03/2024)

Dangerous and Offensive Trade License No. 74/2023-

8. 2024/SC1/1386/2023 dated 01/04/2023 issued by the Secretary-
Vengola Grama Panchayath(valid till 31/03/2024)

9. Mines and Minerals (Development & Regulation)Act,1957.

10. Kerala Minor Mineral Concession Rules, 2015.

11. Kerala Minerals (Prevention of Illegal Mining, Storage &
Transportation) Rules 2015.

12 Kerala Minor Mineral Concession (Amendment) Rules, 2023.

No. 07/2023-24/593/M3/2022/DMG Dated Thiruvananthapuram 12-06-2023

ORDER

M/s. Cochin Granites Pulickal Associates, Thombrayil Building, Chelad .
P.O, Kothamangalam, Ernakulam District - 686 681. (Represented by its
Managing Partner, Shri. Eldho Kuruvila) submitted an application vide reference
first cited to obtain quarrying lease to quarry Granite (Building Stone) over an
area of 7.2831 Hectares of land in Block No.29, Re-Survey Nos. 283, 282/3-1,
282/3-3pt of Mazhuvanoor Village and 1.4837 Hectares in Block No.28, Re-
Survey Nos. 284/1-2, 284/1-3, 284/2-2pt, 284/2-3pt, 285/4, 283/2-5-2, 283/2-3-2
& 282/1-3-1-2 of Arackappady Village, Kunnathunadu Taluk in Ernakulam
District (as per the survey map No. G3-2979/17 issued by Tahasildar,
Kunnathunadu). Vide letters referred 2nd above the District Geologist, Ernakulam
has intimated that the applied area is not virgin and there was no dues by way of
royalty to be collected from the applicant.

Based on the merit of the application and the enclosed mandatory documents
including survey map, possession certificates, demarcation certificate and land
assignment certificate issued by Revenue Authorities and based on the

Proceeding order of mine lease

Annexure No.10

No. 3861/2023 DUPLICATE

भारतीय गैर न्यायिक
भारत INDIA

On production of the original Document
I have satisfied myself that an amount of
Rupees... **₹. 500** ... Eight hundred and eighty four
Pais... **पाँच सौ रुपये** ... have been levied as stamp duty there on

On the 16th day of July, 2023
Sub Registrar Pulickal

₹. 500
INDIA NON JUDICIAL

കേരളം കേരल KERALA L 628199

FORM H
(See Rule 43)
QUARRYING LEASE





This deed of lease made on this the 16th day of June 2023 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors

[Signature]
LESSOR
Dr. Manjiv C S
GEOLOGIST
DEPARTMENT OF MINING & GEOLOGY
DISTRICT OFFICE:
CIVIL STATION, ERNAKULAM
KAKKANAD, KOCHI-682 030
NO. 7186 Date 16.6.2023
Value of 500 Sold to Managing Partner,
Cochin Granites Pulickal
Associates - Chelad P.
K.A. KRISHNAKUMAR
STAMP VENDOR, TRIPUNITHURA

For Cochin Granites Pulickal Associates
LESSEE
[Signature]
ELDHO KURUVILLA
Managing Partner

[Circular Stamp]
06 JUN 2023
TRIPUNITHURA-689001

and assigns) of the one part M/s. Cochin Granites Pulickal Associates, Thombrayil Building, Chelad P.O, Kothamangalam, Ernakulam District - 686 681 (Represented by its Managing Partner, Shri. Eldho Kuruville) (Aadhaar No.7316 8727 5445) (hereinafter called the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and Lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 8.7668 hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of 10 (Ten) years commencing from the20.06.2023..... and ending on the19.06.2033..... for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (herein after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the rates specified in Schedule I to these Rules. The royalty rates shall be subject to revision from time to time as the State Government may order.

20.6.23
LESSOR
Dr. Manjun - C.S
GEOLOGIST
DEPARTMENT OF MINING & GEOLOGY
DISTRICT OFFICE:
CIVIL STATION, ERNAKULAM
KAKKANAD, KOCHI-682 030
0484 2422354
geo.ern.dmg@kerala.gov.in

For Cochin Granites Pulickal Associates
LESSEE *EL*
ELDHO KURUVILLA
Managing Partner

Mine lease deed

Annexure No. 11

thanam, Idukki, and CT Sulaiman, of South Thrikkaripur, were interrogated for the second time in custody from Monday onward after the court granted their custody for five more days. The accused will be produced before the NIA Court on Saturday. According to sources, the NIA got evidence related to the unlawful activities of PFI during the questioning.

"NIA received some evidence after examining the mobile phones and other electronic devices seized from the accused. These persons were the main office-bearers of PFI in Pathanamthitta, Idukki and Kasaragod. The NIA got details of the social media activities of the accused and e-mails sent by them. They were also interrogated in connection with the funding activities of PFI," sources said.

NIA will seek the custody of more arrested persons in the coming days. It was on September 22 that the NIA raided the offices of PFI, its affiliated organisations and the residences of leaders as part of a nationwide crackdown. Later, NIA arrested 11 PFI leaders in connection with the cases registered against the outfit in Kochi, and eight persons in connection with the cases registered in New Delhi.

EXPRESS NEWS SERVICE @Kochi

THE mad rush to migrate to Australia, Canada and European countries have landed several Malayali youths in trouble. Youngsters were duped of lakhs of rupees by rackets claiming to arrange a visa to Canada even without an IELTS clearance.

The issue came to light after the police received a set of complaints

alleging that a Muvattupuzha-based firm collected lakhs of rupees from candidates claiming to help them migrate to Canada without clearing the IELTS examination.

The Muvattupuzha police station soon launched a probe and arrested Prakash Thomas, 43, of Melukavumattam in Kottayam in connection with the incident.

"The alleged fraud was carried

out under the coverment firm called Per Recruitment Private. Prakash ran the firm and other persons and promising that visited for Canada with for the IELTS exam a senior police officer.

As per one of the accused promises to secure a job in Ca

Navy's Dornier conducts night landing trials at Agatti airfield

Kochi: In a move to improve air connectivity to Lakshadweep islands, the Navy's air squadron conducted night landing trials at Agatti airfield on Thursday night. A Dornier-228 aircraft of the Naval Air Squadron successfully carried out maiden night landing at Agatti. As part of the trials, multiple approaches and landings were carried out from both sides of the runway to validate suitability for operations. The successful night trials would pave way for future operations of Dornier-228 aircraft from Agatti by night which will boost the Navy's efforts to conduct round-the-clock maritime surveillance, the Navy said in a release. Located 460 km west of Kochi in the Arabian Sea, the Agatti atoll houses the lone airstrip available in the archipelago. The Southern Naval Command took the initiative for night landing in coordination with Airport Authority of India and Directorate General of Civil Aviation.

NOTICE
This is to inform to the General Public that the proposed expansion of Existing Building Stone Mine (Quarry, Minor Mineral Mining) project at Re-Survey No. 283, 282/3-1, 282/3-3pt., of Muzhuvannoor Village & 284/1-2, 284/1-3, 284/2-2pt., 284/2-3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2 (Block No.28) of Andappady Village, Kunnathur Taluk, Ernakulam, Kerala for an area of 8.7668 Ha being developed by M/s. Cochin Granites Pulickal Associates is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority (SEIAA), Kerala vide EC Identification No. EC/2001/KL/180424 & File No. 1392/EC/2019/SEIAA dated 11.10.2022 and the copy of the Environmental Clearance is available with the office of State Environment Impact Assessment Authority, and it may also be seen on the website of the Authority at www.seiaa.kerala.in

Bhavan's Palsar
Bhavan's N.A. Palkhivala Academy for Advanced Legal Studies and Research
(Approved by University of Calicut & Recognized by the BCI)
THE LAW SCHOOL FOR INTENSIVE TEACHING & INTUITIVE LEARNING
BBA LL.B. (Hons) 2022-23 ADMISSION COMMENCED
UNIQUE FACILITIES:
★ FULL-FLEDGED INFRASTRUCTURE & DISCIPLINED CAMPUS.
★ RESOURCEFUL, TALENTED & COMMITTED FACULTY.
★ MOOT COURT & PRACTICALS RIGHT FROM 1ST SEMESTER. (Moot Court introduction in Final Sem. only by others)
★ FULL SYLLABUS COMPLEMENTARY WEB CLASSES FACILITATED AS A FULL TIME (24x7) LEARNING AID. (Pre-recorded Lecture Class Outlets usable as needed-not provided by others)
★ 36 HRS. CLASSES / WEEK AS PER BCI NORMS FOR (HONS.) COURSE - FOR ELABORATE TEACHING & DETAILED LEARNING. (24% more classes than others who conducts only 25 Hrs. Classes a week) &
★ ENLIGHTENING RESEARCH LIBRARY, WITH PROFUSELY SET COMPUTERS AND INTERNET CONNECTIVITY.
TEACHING TO ENABLE STUDENTS EMPLOYABLE FROM DAY ONE
NO SEAT SHARING WITH CBS
CANDIDATES SECURED HIGH 42 MARKS, APPLY TO PALSAR DIRECTLY
Application Form D details available from office or www.bhavan-palsar.in in Rameshattaram - IS-18-2022 | Prof. T.P. Rajalakshmy, Principal

JOY MOVIE
DIRECTED BY ACHU VIJAYAN
PRODUCED BY DR. AJITH JOY & ACHU VIJAYAN
STORY BY: BAREE, PRAVINCHANDRAN, SURESH, BILAL KHAN, ACHU VIJAYAN
CASTING: SURESH, PRAVINCHANDRAN, SURESH, BILAL KHAN, ACHU VIJAYAN
COSTUME DESIGNER: ACHU VIJAYAN, SURESH, BILAL KHAN, ACHU VIJAYAN
MUSIC BY: BEAS & SINDHU
EDITING: ACHU VIJAYAN, SURESH, BILAL KHAN, ACHU VIJAYAN
PRODUCTION DESIGNER: SURESH, BILAL KHAN, ACHU VIJAYAN

TOUCH THE STORY, IT WILL TOUCH YOU!!!
INDIAN EXPRESS
Touch the story, it will touch you!!!





THE ODISHA STATE
JANAPATH, BH
254292
CAD-2162
The Chief Engineer, in Double Cover system
Sl. No. Name
1 Construction of Residential Building Women's Unive Bhubaneswar, I
2 Cost of Bid documents
3 Availability of Bid website
4 Last date /time of the Portal
5 Date of Opening
6 The Bidders have seen from the bid/cancellatic
N.B. - The quoted rates Under works

Annexure No.12

03
19

MINUTES OF THE MEETING OF THE EMC OF COCHIN GRANITES PULICKAL ASSOCIATES HELD AT IT'S PLANT OFFICE AT CHEENIKUZHY AT-3PM ON - 26 - 03 - 2024

The Fourth meeting of the Environment Management Cell of the Cochin Granites Pulickal Associates (CAPA) was held at 3.PM-ON 26-03-2024, under the chairmanship of Mr. Eldho kuruvilla, Managing Partner CAPA to discuss about the progress of measures that has done and for the further activities we have to do in the project site. Since we already started the quarrying activities accordingly with the mining Plan, that approved by district Geologist. The following members of the EMC were present in the meeting.

Sl.No -	Name of the Personnel Present	Designation	Signature
1	Eldho kuruvilla, Managing Partner	Chairman	
2	Thampi Senan, Group General Manager	Member	
3	Remesh kumar.P, General Manager	Member	
4	Jomon, EIA Coordinator	External Member	

Discussions made by all members to strictly follow the mining activities, and follow the Mining Plan.

21

reforestation area and 7.5metre buffer zone Area.
Taken proper preparation for submitting the
compliance report on time.

We are given the utilization plan for CER funds to
the Panchayath and they are in process for implementing
the projects.

Ramesh Kumar Thanked the members

The meeting Concluded at 4.30pm on 26th
March 2024.

Copy of EMC minutes

Annexure No.13

Standards

**TEST REPORT**

ULR No.: TC1293924000010757F		
LRI No.: SEAAL24051215A	Date: 16-05-2024	Page 1 of 2

CUSTOMER DETAILS

Customer Name & Address	M/s Cochin Granites Pulickal Associates Thombrayil Building , Chelad P.O,Kothamangalam, Ernakulam District
Customer Reference	Test Request date: 11-05-2024

SAMPLE DETAILS

Product Category	Atmospheric Pollution	Sample Code	EN24050501
Sample Name	Ambient Air	Sample Received on	12-05-2024
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	13-05-2024
Sampled by	Lab Authorized Sampler	Test Completed on	15-05-2024

DETAILS OF SAMPLING

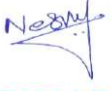
Sampling Location	Project Site	Date of Sampling	11-05-2024
Sampling Procedure	SEAAL/CHL/SOP/7.3/02	Humidity	68 %

SAMPLING SITE DETAILS

Survey No.	283, 282/3-1, 282/3- 3pt	Survey No.	284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2
Village	Mazhuvannoor	Village	Arackappady
Taluk	Kunnathunad	Taluk	Kunnathunad
District	Ernakulam	District	Ernakulam
State	Kerala	State	Kerala

TEST RESULTS-CHEMICAL DISCIPLINE

SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
1	Particulate matter ,PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	50.9	100 (Max)


Nesny A.K.
Chemist
Checked by




Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.

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

Standards



TEST REPORT

ULR No.: TC1293924000010757F		
LRI No.: SEAL24051215A	Date: 16-05-2024	Page 2 of 2

TEST RESULTS-CHEMICAL DISCIPLINE					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	NAAQ STANDARD
2	Particulate matter PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	23.7	60.0 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	5.16	80.0 (Max)
4	Oxides of nitrogen as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	6.75	80.0 (Max)

Remarks:

End of Report

Standards

Nesny A.K.
Chemist
Checked by



Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories
 Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.
 'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
 Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Copy of Ambient Air

Annexure No.14

Standards



TEST REPORT

ULR No.: TC1293924000010758F		
LRI No.: SEAL24051216A	Date: 16-05-2024	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Cochin Granites Pulickal Associates Thombrayil Building , Chelad P.O,Kothamangalam, Ernakulam District
Customer Reference	Test Request date: 11-05-2024

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	EN24050502
Sample Name	Ambient Noise	Monitoring Commenced on	11-05-2024
Test Method	IS 9989:1981	Monitoring Completed on	12-05-2024
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Survey No.	283, 282/3-1, 282/3- 3pt	Survey No.	284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2
Village	Mazhuvannoor	Village	Arackappady
Taluk	Kunnathunad	Taluk	Kunnathunad
District	Ernakulam	District	Ernakulam
State	Kerala	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	37.7	14:00	50.6	22:00	36.6
07:00	40.5	15:00	51.0	23:00	35.7
08:00	44.7	16:00	52.1	24:00	38.3
09:00	48.2	17:00	52.5	01:00	39.0
10:00	50.6	18:00	47.1	02:00	38.6
11:00	53.7	19:00	43.6	03:00	39.4
12:00	51.0	20:00	39.7	04:00	38.3
13:00	50.2	21:00	39.2	05:00	40.1

Nesny
Nesny A.K.
Chemist
Checked by



Laiju
Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories
Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.
'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards



TEST REPORT

ULR No.: TC1293924000010758F		
LRI No.: SEAL24051216A	Date: 16-05-2024	Page 2 of 2

TEST RESULTS -CHEMICAL DISCIPLINE			
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	49.1
2	Ambient Sound Level (Leq) Night Time	dB(A)	38.7

Remarks:

End of Report

Standards

Nesny A.K.
Chemist
Checked by



Laiju P.N.
Laboratory Head
Authorized Signatory

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

Standards Environmental & Analytical Laboratories

Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.

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

Copy of Ambient Noise

Annexure No.15

Standards



TEST REPORT




ULR No: TC1293924000010759F		
LRI No.: SEAAL24051217A	Date: 16-05-2024	Page 1 of 2

CUSTOMER DETAILS	
Customer Name & Address	M/s Cochin Granites Pulickal Associates Thombrayil Building , Chelad P.O,Kothamangalam, Ernakulam District
Customer Reference	Test Request Date: 11-05-2024

SAMPLE DETAILS			
Product Category	Water	Sample Code	WT24050289
Sample Name	Surface Water	Sample Received on	12-05-2024
Sample Description by Customer	Pond Water	Temperature @ Receipt	27°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	13-05-2024
Sample Quantity& Packing	1 L & 125 ml in a Plastic Bottle	Test Completed on	15-05-2024
Information Provided by Customer	---	Sampled by	Not Drawn by Laboratory

SAMPLING SITE DETAILS			
Survey No.	283, 282/3-1, 282/3- 3pt	Survey No.	284/1-2, 284/1-3, 284/2-2Pt., 284/2- 3pt., 285/4, 283/2-5-2, 283/2-3-2, 282/1-3-1-2
Village	Mazhuvannoor	Village	Arackappady
Taluk	Kunnathunad	Taluk	Kunnathunad
District	Ernakulam	District	Ernakulam
State	Kerala	State	Kerala

TEST RESULTS- CHEMICAL DISCIPLINE					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 2021	Hazen	5	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable

 Nesny A.K. Chemist Checked by	 Remya B. TM-Biological Authorized Signatory	 Laiju P.N. Laboratory Head Authorized Signatory
---	---	---

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

Standards Environmental & Analytical Laboratories
 Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.
 'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppalthadam P.O., Ernakulam Dist. - 683 110
 Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: sealab@gmail.com

Standards



TEST REPORT

ULR No: TC1293924000010759F		
LRI No.: SEAAL24051217A	Date: 16-05-2024	Page 2 of 2

TEST RESULTS- CHEMICAL DISCIPLINE					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
3	Turbidity	IS 3025 (Part 10): 2023	NTU	12.4	1.0 (Max)
4	pH	IS 3025 (Part 11): 2022	---	7.22	6.50-8.50
5	Conductivity	IS 3025 (Part 14): 2013	µS/cm	762	---
6	Total Dissolved Solids	IS 3025 (Part 16): 2023	mg/L	494	500 (Max)
7	Total Hardness as CaCO ₃	IS 3025(Part 21): 2009	mg/L	198	200 (Max)
8	Calcium as Ca	IS 3025(Part 40): 1991	mg/L	40.0	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 2023	mg/L	23.6	30 (Max)
10	Chloride as Cl	IS 3025(Part 32): 1988	mg/L	221	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 2023	mg/L	78.8	200 (Max)
12	Iron as Fe	IS 3025(Part 53): 2003	mg/L	2.42	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24/Sec 1): 2022	mg/L	12.8	200 (Max)

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

Remarks:

End of Report

Nesny A.K.
 Chemist
 Checked by



Remya B.
 TM-Biological
 Authorized Signatory


Laiju P.N.
 Laboratory Head
 Authorized Signatory

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

Standards Environmental & Analytical Laboratories
 Accreditation & Approval: NABL accredited Testing Laboratory as per ISO/IEC 17025:2017
 vide Certificate No. TC - 12939 & "A" Grade Laboratory approved by KSPCB.
 'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
 Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Copy of Water

Annexure No.16


सत्यमेव जयते

M RAJESH
Mines Manager
Jawahar Iron Ore
Mines, Jaipur

Cert No. SMR-E /8330

भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खनन परीक्षा बोर्ड/Board of Mining Examinations
द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र
SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY
(केवल ओपनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री **एम राजेश** पुत्र **पी मनि**
जिनकी जन्म तिथि **08.07.2000** है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने पर एतद्वारा केवल ओपनकास्ट धात्विकीय खानों के प्रबंधन हेतु द्वितीय श्रेणी प्रबंधक सक्षमता प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक **25 जुलाई 2022** से प्रभावी है।

श्री **M RAJESH** son of **P MANI**
born on **08 JULY 2000** having given satisfactory evidence of possessing the prescribed qualifications and experience is hereby granted **SECOND CLASS MANAGER'S CERTIFICATE OF COMPETENCY** to manage the metalliferous mines having opencast workings only. This certificate is effective from. **25.07.2022**


अज्ञात अभ्यास **UDoms**

सचिव **अध्यक्ष**
खनन परीक्षा बोर्ड **खनन परीक्षा बोर्ड**
Secretary **Chairman**
Board of Mining Examinations **Board of Mining Examinations**

Signed and Sealed
Date **16.02.2023**

Mines manager

Annexure No.17





Cert No. FR / 4994
भारत सरकार/Government of India
खान अधिनियम, 1952/Mines Act, 1952
खनन परीक्षा बोर्ड/Board of Mining Examinations
खान फोरमैन सक्षमता प्रमाण-पत्र
(केवल ओपेनकास्ट खानों तक सीमित)
(Restricted to mines having opencast workings only)
MINE FOREMAN'S CERTIFICATE OF COMPETENCY
(धात्विकीय खान विनियम, 1961 के अन्तर्गत)
(Under the Metalliferous Mines Regulations, 1961)

श्री एम वेंकटेशन सुपुत्र एस मथुवेल
 जिनकी जन्म तिथि 19.04.1982 है, को विहित अर्हताएं एवं अनुभव प्राप्त करने का सन्तोषजनक प्रमाण प्रस्तुत करने एवं जनवरी 2018 में आयोजित विहित परीक्षा में उत्तीर्ण होने पर एतद्वारा केवल ओपेनकास्ट धात्विकीय खान के लिए फोरमैन प्रमाण-पत्र प्रदान किया जाता है। यह प्रमाण-पत्र दिनांक 14 सितम्बर 2018 से प्रभावी है।

Shri M VENKATESAN son of S MUTHUVEL
 born on 19 April 1982 having given satisfactory evidence of possessing the prescribed qualifications and experience and having passed the examination held in January 2018 is hereby granted MINE FOREMAN'S CERTIFICATE OF COMPETENCY for metalliferous mine having opencast workings only. This certificate is effective from 14 September 2018

सचिव खनन परीक्षा बोर्ड
 Secretary Board of Mining Examinations

अध्यक्ष खनन परीक्षा बोर्ड
 Chairman Board of Mining Examinations

Signed and Sealed
 Date 31-03-2018

Foreman

Annexure No.18

Cert No. MR/52/0169

भारत सरकार/Government of India

खान अधिनियम, 1952/Mines Act, 1952

खनन परीक्षा बोर्ड/Board of Mining Examinations

खनन पेट सक्षमता प्रमाण-पत्र

MINING MATE'S CERTIFICATE OF COMPETENCY

(केवल ओपेनकास्ट खानों तक सीमित)

(Restricted to mines having opencast workings only)

(धात्विकीय खान विनियम, 1961 के अन्तर्गत)

(Under the Metalliferous Mines Regulations, 1961)

श्री M MOHAN KUMAR son of **R MANOHARAN**

born on **28TH OCTOBER, 1981 (EIGHTY ONE)** having given satisfactory evidence of his age, medical fitness, good character, literacy and prescribed experience of working in metalliferous mines and having passed the prescribed examination held at **GVTC, SANDUR** centre on **02.08.2011** is hereby granted **MINING MATE'S CERTIFICATE OF COMPETENCY** restricted to mines having opencast workings only

बाएँ हाथ के अंगूठे का निशान
Left hand thumb impression.

अंचल सचिव
Zonal Secretary
Board of Mining Examinations
Southern Zone, Bengaluru

अध्यक्ष
Chairman
Board of Mining Examinations

Signed and Sealed
Date **18/11/21**

Mining mate