

**PROCEEDINGS OF THE DISTRICT ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY, PATHANAMTHITTA**

(Present: R. Girija, IAS District Collector & Chairperson DEIAA; M.A.Rahim Revenue Divisional Officer, Adoor & Member Secretary, DEIAA; G.M.Kochukanjiram, IFS, Divisional Forest Officer, Ranny & Member DEIAA; S. G.Mahesh Kumar IFS, Divisional Forest Officer, Konni & Member DEIAA, Dr.M.S Sunil, Expert Member DEIAA)

**Environmental Clearance No. 19/2017,  
Granite Building Stone Quarry**

No. 8065/2017/C1.  
DIA/KL/MIN/10299/2017

Pathanamthitta,  
Dated-16.12.2017

Sub: DEIAA, Pathanamthitta-Meeting held on 22.11.2017 Environmental Clearance for Granite Building Stone Quarry Project in survey No. 571/1A/34/3/6,571/1A/34/3/6/2,571/1A/34/3/4,571/1A/34/3/7,571/1A/34/3/1,571/1A/34/3/7,571/1A/34/3/1/1,571/1A/34/3/6/1,571/1A/34/3/1,571/1A/34/3/7/1,571/1A/34/3/4/1,571/1A/34/3/6 of Konnithazham Village, Konni Taluk, Pathanamthitta District-Environmental Clearance granted - Orders issued reg

Ref: - 1) Application filed by Sri.Martin Varghese,Director, M/s. Aducadu Granites Pvt.Ltd,Azhikkakathu White House, Mathoor Junction, Eroor south, Thrippunithura,Ernakulam District  
2) Letter No.1492/DOPTA/M/2016 dated 17.11.2017 of Mining and Geology Department, District Office, Pathanamthitta.  
3) Minutes of the meeting of DEAC held on 2.11.2017.  
4) Minutes of the meeting of DEIAA held on 22.11.2017 at the Chamber of District Collector, Pathanamthitta.

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Sri.Martin Varghese,Director, M/s. Aducadu Granites Pvt.Ltd,Azhikkakathu White House, Mathoor Junction, Eroor south, Thrippunithura,Ernakulam District filed an application for getting Environmental Clearance for the mining of Granite Building Stone from the land comprised in survey Nos. 571/1A/34/3/6, 571/1A/34/3/6/2, 571/1A/34/3/4, 571/1A/34/3/7, 571/1A/34/3/1, 571/1A/34/3/7, 571/1A/34/3/1/1, 571/1A/34/3/6/1, 571/1A/34/3/1, 571/1A/34/3/7/1, 571/1A/34/3/4/1, 571/1A/34/3/6 of Konnithazham Village, Konni Taluk, Pathanamthitta District. The said land is included in:

- (1) Survey No. 571/1A/34/3/1, 571/1A/34/3/6(Thandaper No.13290), Survey No. 571/1A/34/3/1/1(Thandaper No.13199), Survey No. 571/1A/34/3/1, 571/1A/34/3/7, 571/1A/34/3/4/1, 571/1A/34/3/7/1, 571/1A/34/3/6/1 (Thandaper No.13121) in the name of Martin Varghese, S/o A.K Varkey, Azhikkakathu, Nadama Village, Kanayannor Taluk and Jaison Lukose ,S/o C.T Lukose, Chirayil Thomson Villa, Athirampuzha Village for M/s. Aducadu Granites Company Pvt.Ltd., Konnithazham Village.
- (2) Survey No. 571/1A/34/3/6(Thandaper No.155) in the name of Sri. Babykutty, S/o Chacko, Kakkamthottil Veedu, Konnithazham muri, Konnithazham Village.
- (3) Survey No. 571/1A/34/3/7 and 571/1A/34/3/4(Thandaper No.4785) in the name of Sri. Chacko Thomas,Kakkamthottil Veedu, Konnithazham muri, Konnithazham Village.
- (4) Survey No. 571/1A/34/3/6/2 (Thandaper No.4784) in the name of Sri. Chacko Mathew,Kakkamthottil Veedu, Konnithazham muri, Konnithazham Village.

The above said land is under the active possession, enjoyment and tax payment of the Thandaper holders. An agreement was executed by land owner in favour of the proponent agreeing to quarry granite rock from the land for a period of 5 years. Total mining area of the land is 04.3804 Ha and the capacity of the mining lease (TPA) is 58621 TPA.

**Details of the application as shown below:-**

District, Taluk, Village & Sy. No.	Pathanamthitta, Konni Taluk, Konnithazham Village. Sy No. 571/1A/34/3/6, 571/1A/34/3/6/2, 571/1A/34/3/4, 571/1A/34/3/7, 571/1A/34/3/1, 571/1A/34/3/7, 571/1A/ 34/3/1/1, 571/1A/34/3/6/1, 571/1A/34/3/1, 571/1A/34/3/ 7/1, 571/1A/34/3/4/1, 571/1A/34/3/6
Toposheet No.	58C/15
Geographical Coordinates	Latitude: 09° 15' 05.7" N to 09° 15' 05.3" N Longitude: 76° 52' 08.0" E to 76° 52' 09.3" E
Extent of area (in hectares)	04.3804 Ha.
Existing/New Mining area	Existing.
Capacity of Production	58621 MT/annum
Explosive Licence No. & Date of Expiry	E/SC/KL/22/135(E11282) dated 11.07.2016, 31.03.2018.
Details of Project Cost	1 Crore
Manual power used	16 Persons.
The highest and lowest Elevation of the Mine area	Highest-150 m MSL Lowest -125 m MSL
Land Status	Registered Land.
Nearest habitation	124 m
Nearest Highway	Pathanamthitta-Punalur-6 Km
Nearest Railway Station	Chengannur-33 Km
Nearest Airport	CIAL-190 Km
Nearest Forest	Konni Reserve Forest-3 Km
Nearest Education Centre	At Payyamon-4 Km
Nearest Health Centre	At Payyamon-4 Km
Nearest Police Station	Konni - 6 Km
Nearest Fire Station	Konni - 6 Km
Nearest Post Office	At Payyamon-4 Km
Power lines (HT/LT)	HT-130 m
Interstate Boundary	None within the study area.
Ecological Sensitive zone	None within the study area.
Wild Life Sanctuary	None within the study area.
Historical Monuments	None within the study area.
Nearest river	Achenkovil - 5 Km
HLWG Report Status	Not falling in ESA
Method of Mining	Open cast Semi mechanized
Water requirement & Source	The daily water Demand is 1.5 KLD. Domestic water demand met in well.

The proposal was placed before DEAC in its 9th meeting held on 2.11.2017. The DEAC committee conducted site inspection in the presence of proponent. The committee appraised the proposal based on the Mining plan, Pre-feasibility report and Field inspection. The DEAC reported the proposal for Granite Building Stone quarry project as a fresh proposal. A quarry exists in the proposed area. The adjoining area is under Rubber plantation. No forest land is seen in the vicinity of the project and is having 100m clearance from forest land. The proposed area satisfied stipulated 50m clearance from residential houses, public structures etc. The amount earmarked for Corporate Social Responsibility (CSR) activities should be optimally utilized for the welfare of the people living in the area surrounding the project. Water recharge structures should be constructed by the project proponent for the recharge of wells in areas surrounding the quarry in summer season. Moreover the maintenance of approach road and nearby roads should be done by the proponent himself.

The topsoil generated during the course of quarrying should be stored in the predetermined area and should be used for plantation purpose. The outer boundary of the quarry should be properly fenced and boundary pillars with geographical coordinates legibly written on it should be maintained during the entire period of mineral concession.

After convincing the objective of the proposal, the DEAC committee unanimously decided to recommend the project proposal to DEIAA for the issuance of Environmental Clearance for quarrying 58621 MT Granite Building Stone per year for a period 5 years subject to the general conditions instructed by SEIAA along with the specific conditions prescribed below.

### **Specific Conditions**

1. Each project proponent should give in writing in stamp paper worth Rs. 200/- the amount earmarked yearly for the Corporate Social Responsibility (CSR) activities and the amount should be spent for the welfare of the people living near the project area.
2. At least 10% of the fund earmarked by the project proponent for the CSR activities should be spent through LSG Department.
3. The Project proponent should carryout mining as per the approved Mining Plan.
4. The Project proponent should also scrupulously follow the General Conditions stipulated by SEIAA for mining projects.

5. Compliance of the conditions herein will be monitored by DEIAA/DEAC on annual basis and the EC will be subject to review in case of violation or non compliance of conditions or genuine complaints from residents within the security area of the quarry.
6. Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the DEAC/DEIAA members for entry and inspection.
7. The entire area proposed for quarry should be properly fenced.

#### **General Conditions by SEIAA**

1. Rain water harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.
2. Environment Monitoring Cell as agreed under the affidavit filed by the Proponent should be formed and made functional.
3. Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any including approach road and internal roads.
4. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
5. Sprinklers shall be installed and used in the project site to contain dust emissions.
6. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
7. At least 10 % out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the EC.
8. Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented.
9. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards,

stores, marking etc) shall be protected at all times and shall be conspicuous.

10. Warning alarms indicating the time of blasting (to be done at specified timings) has to be arranged as per stipulations of Explosive Department.
11. Control measures on noise and vibration prescribed by KSPCB should be implemented.
12. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.
13. Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
14. A licensed person should supervise/control the blasting operations.
15. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
16. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/specific conditions.
17. Height of benches should not exceed 5m and width should not be less than 5m, if there is no mention in the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maintenance of Maximum depth of mining from general ground level at site shall not exceed 10 m or as per mining plan.
20. No mining operations should be carried out at places having a slope greater than  $45^{\circ}$ .
21. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provision of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
22. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet etc.

23. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
24. The transportation of minerals should be done in covered trucks to contain dust emissions.
25. The proponent should plant trees at least 5 times of the lose that has been occurred while clearing the land for the project.
26. Disposal of spent oil from diesel engines should be as specified under relevant Rules/Règulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.
28. A minimum buffer distance of 50 m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.
29. 100m distance shall be insisted upon for grant of Environment Clearance for mining of minor minerals up to 2 hectares from natural forests with natural species of trees, including wildlife sanctuaries. However, for leases less than 2 hectares, the 100m distance may be reduced to a maximum of 50 m in respect of adjacent lands clarified as forest, if such areas are barren or rocky outcrops devoid of any natural vegetation (cf Minutes of video conference with chairpersons of the DEIAA held on 28.4.2017).
30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before mining activity.
31. All other statutory clearances should be obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
32. In the case of any change(s) in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environment parameters/impacts as assessed, based on which only the EC is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.
33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the EC under the provisions of the Environment (Protection) Act, 1986 to

Control of Pollution) Act 1981, the Environment (Protection) Act 1986, the Public Liability (Insurance) Act 1991 and EIA Notification 2006.

35. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspapers) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the DEIAA. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
36. A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayath/District Panchayath/Municipality/Corporation/Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
37. The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the DEIAA & DEAC office.
38. The details of Environmental Clearance should be prominently displayed in a metallic board of 3ft × 3ft with green background and yellow letters of Times New Roman font of size of not less than 40. Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
39. 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.
40. No change in mining technology and scope of working should be made without prior approval of the DEIAA. No further expansion of modifications in the shall be carried out without prior approval of DEIAA, as applicable.
41. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations.

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

42. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places loading and unloading points and transfer point to reduce fugitive emissions.
43. The top soil, if any, shall temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8 m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
44. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly desilted particularly after monsoon and maintained properly.
45. Effective Safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM<sub>10</sub> and PM<sub>25</sub> such as haul Road, loading and unloading points and transfer points-it shall be ensured that the Ambient Air Quality parameters confirm to the norms prescribed by the Central Pollution Control Board in this regard.
46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul road, loading and unloading and at transfer points should be provided and properly maintained.
47. Measures should be taken for control of noise levels below 85dBA in the work environment.

48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization.
49. The funds earmarked for environmental protection measures and CSR activities should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the DEIAA office for scrutiny.
50. DEAC/DEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full co-operation to the officer(S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
51. 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.
52. The DEIAA may revoke or suspend the order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory. The DEIAA reserve the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
53. 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.
54. The Environmental Clearance will be subject to the final order of the Courts in any pending litigation related to be land or project, in any Court of law.
55. The mining operation shall be restricted to above ground water table and its should not interest ground water table.
56. All Vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area.
57. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface and ground water for the project.

58.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 6 monthly reports to DEAC/DEIAA.

59.Occupational health surveillance program of the workers should be under periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.

60.No Mining operations should be carried out at Govt. Purampoke land.

The proposal was considered in the 4th meeting of DEIAA held on 22.11.2017. The Committee examined the proposal, verified the correctness of the documents produced and procedures followed by DEAC to convince the objective of the proposal. The applicant also submitted an affidavit regarding the Corporate Social Responsibility (CSR) in stamp paper worth Rs.200/- and opened an SB account with South Indian Bank, Konni Branch with Account No. 0377073000000347 for the operation of the Corporate Social Responsibility activities.

**The amount earmarked for CSR activities per year is as mentioned below:-**

SI No	Items	Cost per Year
1	<b>Education:</b>	
	1. Distribution of school stationary items to school and poor students.	Rs.25,000/-
	2. Repairing to the Govt. School building located near to the site.	Rs.50,000/-
2	<b>Health:</b>	
	1. Donation for equipment	Rs.25,000/-
	2. Supply of building material for the construction/maintenance of Govt. Dispensary located near by the site.	Rs.75,000/-
3	<b>Community Development:</b>	
	1. Maintenance of panchayath roads located near to the site	Rs.25,000/-
	2. Helping to the poor people for the marriage of their girls.	Rs.75,000/-
<b>Total</b>		<b>5, 00,000/- per year.</b>

**The DEIAA committee unanimously decided to sanction the proposal with instructions as shown below:-**

1. The proponent shall demarcate the boundary of the quarry from the forest land if any, coming nearby.
2. The DEIAA/DEAC committee has to ensure that the functioning of the quarry is in accordance with the conditions of SEIAA.
3. The DEAC has to conduct half yearly inspection and submit detailed reports to DEIAA for evaluation.
4. The proponent is directed to produce yearly returns and photographs regarding their CSR activities to DEAC. The DEIAA has to verify the returns and ascertain its genuines to prevent the misutilisation of the CSR amount and submit timely reports to DEIAA.
5. The Government purampoke if any, lying adjacent to the quarry should be kept free from encroachments.

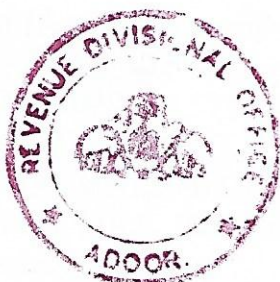
In the circumstances stated above, Environment Clearance is granted to granite rock quarry Project No: DIA/KL/MIN/10299/2017 proposed by Sri.Martin Varghese, Director, M/s. Aducadu Granites Pvt.Ltd, Azhikkakathu White House, Mathoor Junction, Eroor south, Thrippunithura, Ernakulam District for quarrying 58621 MT Granite Building Stone per year from an extent of 04.3804 Hectares of dry land comprised in Survey No.

571/1A/34/3/6, 571/1A/34/3/6/2, 571/1A/34/3/4, 571/1A/34/3/7, 571/1A/34/3/1, 571/1A/34/3/7, 571/1A/34/3/1/1, 571/1A/34/3/6/1, 571/1A/34/3/1, 571/1A/34/3/7/1, 571/1A/34/3/4/1, 571/1A/34/3/6 of Konnithazham Village, Konni Taluk, Pathanamthitta District subject to the general conditions laid down by SEIAA and additional conditions instructed by DEIAA and DEAC. **The validity of the Environmental Clearance is for 5 years from the date of issue.**

Cases of violation of above conditions if any, noticed during the quarrying period leads to the cancellation of Environmental Clearance. The proponent shall bind himself to the above conditions.

Compliance of the condition herein will be monitored by DEIAA/DEAC or its agencies and also by the regional office of the Ministry of Environment and Forest, Government of India, Bangalore.

- i) Necessary assistance for entry and inspection should be provided by the Project Proponent or those who are engaged or entrusted by him to the inspection/monitoring staffs.
- ii) Instances of violation if any shall be reported to the District Collector, Pathanamthitta for initiating legal action under the Environment (Protection) Act 1986.
- iii) The address of the correspondence is with the authorized signatory of the Project Proponent Sri.Martin Varghese, Director, M/s. Aducadu Granites Pvt.Ltd,Azhikkakathu White House, Mathoor Junction, Eroor south, Thrippunithura,Ernakulam District



**M.A.RAHIM**

**MEMBER SECRETARY DEIAA &  
REVENUE DIVISIONAL OFFICER, ADOOR.**

To

✓ Sri.Martin Varghese,  
Director,  
M/s. Aducadu Granites Pvt.Ltd,  
Azhikkakathu White House, Mathoor Junction,  
Eroor south, Thrippunithura,  
Ernakulam District

Copy to:

1. The Additional Chief Secretary to Govt., Environment Department, Govt. of Kerala, Thiruvananthapuram.
2. The Director, Mining & Geology Department, Thiruvananthapuram.
3. The Chairperson DEIAA & District Collector, Pathanamthitta.
4. The Divisional Forest Officer, Konni.
5. The Divisional Forest Officer, Ranny.
6. Dr.M.S Sunil, Expert Member DEIAA
7. The Geologist, Mining and Geology Department, Pathanamthitta.
8. The Tahsildar, Konni
9. The Village Officer, Konnithazham .
10. The Secretary, Konni Grama Panchayath
11. Web Site.
12. Stock File.