



Proceedings of the State Environment Impact Assessment Authority Kerala

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member and Sri. P. Mara
Pandiyar I.A.S., Member Secretary.*

Sub: Environmental Clearance - Application for environmental clearance for the quarry project in Sy. No. 266/1, 266/2, 253/5, 253/15, 253/16 and 253/17 at Cherukavu Village, Kondotty Taluk, Malappuram District by Sri. Mayin Haji, M.C. for M/s Calicut Granites (P) Ltd. - E.C- Granted

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 676/SEIAA/EC1/5356/2014

dated, Thiruvananthapuram 04-03-2016

- Read:-**
1. Application dated 18.09.2014 from Sri. Mayin Haji, M. C., Managing Director, M/s Calicut Granites (P) Ltd. Pullithodi House, Nallalam P. O., Cheruvannur Village, Kozhikkode Taluk, Kozhikkode District – 673027.
 2. Minutes of the 50th meeting of SEAC held on 30/31-12-2015.
 3. Minutes of the 49th meeting of SEIAA held on 05-02-2016.

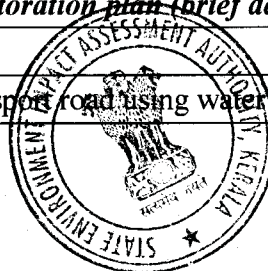
ENVIRONMENTAL CLEARANCE NO. 33/2016

Sri. Mayin Haji, M.C., Managing Director of M/s Calicut Granites (P) Ltd. Pullithodi House, Nallalam P.O., Cheruvannur Village, Kozhikkode Taluk, Kozhikkode District – 673027 vide his application dated 18.09.2014, has sought Environmental Clearance under EIA Notification, 2006 for the proposed expansion of Building Stone Quarry in Sy. No. 266/1, 266/2, 253/5, 253/15, 253/16 and 253/17 at Cherukavu Village, Kondotty Taluk, Malappuram District, for an area of 9.1058 Hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dtd. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the project are as under:



DETAILS OF THE PROJECT

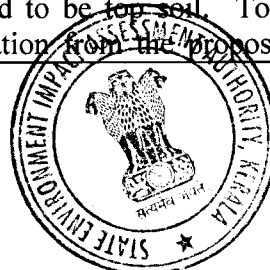
Name of project		M/s. Calicut Granites Private Limited
Category/Subcategory & Schedule		Schedule No. – 1(a) Category – B, Subcategory – B2
Location Sy no/ district, Taluk/ village etc.		Survey no's: 266/1(P), 266/2(P), 253/5(P), 253/15(P), 253/16(P) & 253/17(P) at Cherkavu village, Kondotty Taluk (Previously as Eranad Taluk), Malapuram District, Kerala State
GPS co-ordinates		11°11'40.6" to 11°11'54.0" - N 75°55'19.1" to 75°55'31.0" – E
For Mining projects	Extent of area (in hectares)	9.1058 Ha
	Minimum and maximum height of excavation (MSL)	+70m AMSL to + 155m AMSL
	Life of mine proposed	20 years
	Ultimate depth of mining (in MSL)	Up to +50m AMSL (Minimum 20m, Maximum 105m)
	Distance from the adjacent quarry	Approx. >10m
	Capacity of production	1200 TPD (or say 2,40,000 TPY)
	Details of project cost	Rs.55 lakhs
	Financial statement including funding source and details of insurance	This is an existing project and necessary funding is already made.
CRZ recommendations, Forest clearances		Not Applicable
The nearest major water body		Chaliyar River is located 4.3 km – N (Aerial)
Topography of land and elevation		<ul style="list-style-type: none"> Topography of the area will undergo significant change due to extraction of stone. The highest elevation of the lease area is 155 m. MSL and lowest is 70 m MSL with slope towards south east to northwest
Interlinked project		A crusher unit is interlinked with Quarry
Cluster condition (if any)		Quarry of Malathi Kottarathil (0.4653Ha) and K P Abbas Ali (0.15Ha) are located within 500 m radius of the buffer zone. However, the total extent including present applied lease area is 9.7211Ha only.
Environment Management plan/ Eco restoration plan (brief details)		
Parameters	Management Plan	
Air Pollution	➤ Regular wetting of transport road using water tanker	



	<ul style="list-style-type: none"> ➤ Avoiding overloading of tippers ➤ Covering of loaded tippers with tarpaulins during transportation. ➤ Development of green belt / barriers wherever possible
Water Pollution	<ul style="list-style-type: none"> ➤ Sewage generated are properly discharged into septic tanks with soak pits. ➤ In mine closure stage, water body will be formed up to general RL of +70m AMSL that helps in recharging the ground water potential in the area and also meet needs of nearly agricultural plantations etc., ➤ The rain water falling in the quarry will be harvested up to +70m AMSL. This pit will act as a settling pond to prevent solids escaping along with discharge, before outlet etc., Most of the mine water will be used for green belt, dust suppression, etc. Besides, it is also suggested to construct a settlement pond on the northern western corner of the lease area around +70m AMSL so that the water can be diverted into this pond.
Noise	<ul style="list-style-type: none"> ➤ Noise levels can be abated through good preventive maintenance of machineries, green belt creation, provision of ear muffs to workers, etc., ➤ Sound proof operator's cabin for equipments like dumpers, shovel, tippers, etc., ➤ Ground vibration are controlled through optimum design for burden & spacing, inclined drilling practice, using ordinary electric milli second delay detonators, in combination with detonating fuse etc.,
Solid waste Management	<ul style="list-style-type: none"> ➤ Major part of the existing lease area is mostly exposed and hence there is no waste material. However there is some waste capping in the undisturbed area. From the geological sections average waste is of 2 m high of which about 0.30 m is expected to be top soil. Total quantity of future waste generation from the proposed lease is expected to be 74140 m³. ➤ The top soil generated will be stacked separately and used for plantation purposes. ➤ The waste quantity will be used for road formation, filling of low lying areas and creation of bund around the mine periphery.
Eco restoration	<ul style="list-style-type: none"> ➤ In the mine closure stage, out of 8.0545 Ha of mined out area, 3.4743 Ha will be left as water body and the remaining 4.5802 Ha of area above general RL of +70m AMSL will be reclaimed back with bench plantation / plantation. The mined area will be properly fenced all around. ➤ Plantation / Green belt will be developed in the safety zone and in the nearby land owned by the applicant.



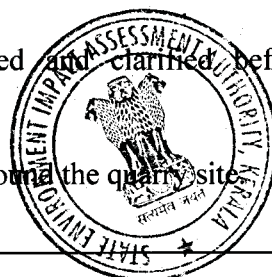
ABOUT THE PROJECT							
Environmental parameters considered	Description						
WATER							
Water requirement & sources	<p>The water requirement for the mining operation is as follows:</p> <table> <tr> <td>For domestic & sanitary needs -</td><td>2.4 KLD</td></tr> <tr> <td>For dust suppression and Plantation etc.,</td><td>9.0 KLD</td></tr> <tr> <td>Total</td><td>11.4 KLD</td></tr> </table> <p>The entire water requirement is met from the rain water harvested in the mine sump, pond and for drinking will be from open well.</p>	For domestic & sanitary needs -	2.4 KLD	For dust suppression and Plantation etc.,	9.0 KLD	Total	11.4 KLD
For domestic & sanitary needs -	2.4 KLD						
For dust suppression and Plantation etc.,	9.0 KLD						
Total	11.4 KLD						
RWH units proposed	The rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as a settling pond to prevent solids escaping along with discharge before outlet etc., Most of the mine water will be used for green belt, dust suppression, etc.,						
Facilities for liquid waste treatment	The only effluent arising from project is domestic waste to the maximum of about 1.9 KLD. This is disposed into septic tanks with soak pits.						
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Not Applicable						
Water quality meeting requirements	Rainwater from the higher benches is made to drain into the sump and the mine pit bottom. Supernatant settled water is used to meet the water requirement.						
Does it have provisions for use of recycled water	Other than using of mine sump water no other recycling envisaged.						
LAND							
Proximity to forest lands	Nil						
Access road to the site – Width & Condition	The project site is approachable from Ayikarapadi-Aroor road which is branching out from Feroke – Palakad National Highway (NH-213) – 2.5 km (Aerial) away.						
Storage of explosives /hazardous substances	License to store and use Explosive obtained from Dy. Chief Controller of Explosives, Ernakulam, vide Explosive License No: E/SC/KL/22/50 (E11093) Dated: 22.01.2014, which is valid up to: 31.03.2016.						
Facility for solid waste management	➤ Major part of the existing lease area is mostly exposed and hence there is no waste material. However there is some waste capping in the undisturbed area. From the geological sections average waste is of 2 m high of which about 0.30 m is expected to be top soil. Total quantity of future waste generation from the proposed						



	<p>lease is expected to be 74140 m³.</p> <ul style="list-style-type: none"> ➤ The top soil generated will be stacked separately and used for plantation purposes. ➤ The waste quantity will be used for road formation, filling of low lying areas and creation of bund around the mine periphery.
Topographic features/slope	The elevation of the mine lease area varies from +70m AMSL to +155m AMSL. The granite occurs in a sloping terrain sloping from south east to northwest and part of the lease area is already mined.
Proneness of the area for landslides	Granite occurs here as a hard massive rock which can withstand steep slopes. Hence not prone to landslides.
Significant land disturbance resulting in erosion, subsidence & instability	This being an opencast mine there will not be any subsidence. The bench slopes will be maintained as per DGMS rules and requirements and hence there cannot be any unstable slopes. There will be land disturbance due to mining activity.
Top soil, overburden etc.	<p>Total quantity – 74140 m³ Top soil – 11120 m³ Overburden – 63020 m³</p> <p>The top soil generated will be stacked separately and used for plantation purposes. The waste quantity will be used for road formation, filling of low lying areas and creation of bund around the mine periphery.</p>
AIR	
Air quality meeting requirements	Ambient Air Quality will be maintained.
Noise level meeting requirements	Noise level will be maintained.
Likely emissions affecting environment	<p>There will be some dust emission due to mining and allied activities which will be controlled by following measures like:</p> <ul style="list-style-type: none"> • Proper maintenance of HEMM • Frequent water sprinkling • Development of greenbelt • Covering of transport material with tarpaulin cover etc.
ENERGY	
Energy requirement	No electricity is needed for quarry operations as only diesel operated mining machinery including jack hammer are used for quarrying. Negligible power requirement of the administrative buildings etc., are met from state grid. Nearby crusher unit is provided with Stand by Generators of 200 KVA and 500 KVA.
Energy sources	KSEB



Extent of usage of alternative energy resources		Not applicable
BIODIVERSITY		
Presence of any endangered species or red listed category		NIL
Loss of native species and genetic diversity		Not Applicable
Likely displacement of fauna		No
Any introduction of alien / invasive species		Nil
SOCIAL ASPECTS		
Proximity to nearest habitation		More than 157 m
CSR related to the project/ allocation/ time frame (details mandatory)	<ul style="list-style-type: none"> The project proponent is implementing CSR activities to the local community around the project site. The CSR schemes are identified to meet the specific needs and requirement of the concerned group/person of any organization/Institutions. A total of 15,00,000 Rs will be spent towards various CSR activities. In future CSR activities, the lessee has planned to earmark annual budgetary grant of about Rs 5.0 lakhs. 	
GENERAL		
Details of Authorised Signatory	Sri. Mayin Haji, M. C., Managing Director, M/s Calicut Granites (P) Ltd. Pullithodi House, Nallalam P. O., Cheruvannur Village, Kozhikkode Taluk, Kozhikkode – 673027. Email: calicutgranite@gmail .com	
Details of NABET approved EIA consultant organization	Creative Engineers & Consultants, 9/4b, Barathwajar Street, East Tambaram, Chennai-600059 Ph: 044-22395170; 9444133619 Email: cecgiri@yahoo.com	
<p>2. The case was first considered in the 45th meeting of SEAC held on 11/12.09.2015 and deferred for field visit and to provide details regarding the mechanism to be adopted for clarification and channelization of water. The sub-committee of SEAC visited the quarry project on 02.10.2015. The details of the field inspection are as follows;</p> <ol style="list-style-type: none"> The quarry is well maintained with formation of proper benches, The crusher unit is functioning adjacent to the quarry site, No house or settlement is seen nearby, The site lacks any sign boards or protective barrier. <p>In addition to the general conditions, the following specific conditions should be added:</p> <ol style="list-style-type: none"> The rainwater should be properly conserved, desilted and clarified before usage/discharged. Proper sign boards and fencing should be provided all around the quarry site. 		



The mining activity can be recommended after stipulating the general conditions.

3. On submission of the mechanism to be adopted for clarification and channelization of water called for by the 45th meeting of SEAC, the proposal was reconsidered by 50th meeting of SEAC held on 30/31-12-2015 as Agenda Item No. 50.15. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report, field inspection report and all other documents submitted along with the Form I application and recommended for issuance of Environmental Clearance with the specific conditions in para 2 above, in addition to the general conditions stipulated for mining projects.

4. The case was considered by SEIAA in its 49th meeting held on 05-02-2016. The Authority decided to grant E.C. subject to the usual conditions for mining projects. State Environmental Impact Assessment Authority, Kerala hereby accord environmental clearance for the quarry project of Sri. Mayin Haji, M. C., Managing Director of M/s Calicut Granites (P) Ltd. Pullithodi House, Nallalam P.O., Cheruvannur Village, Kozhikkode Taluk, Kozhikkode District – 673027 in Sy. No. 266/1, 266/2, 253/5, 253/15, 253/16 and 253/17 at Cherukavu Village, Kondotty Taluk, Malappuram District, Kerala under the EIA notification 2006, with the specific conditions in para 2, in addition to the general conditions stipulated for mining projects as appended hereto.

5. The 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 Chapter 6 of the Pre-Feasibility report, mining features and environment management plan in chapters 6 and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in chapter 4 of Mining plan (Mining), Chapter 5 of Mining plan (Blasting), Chapter 11 (EMP) of the Mining Plan, Chapter 15 of PFR (Disaster Management), and the entire Progressive Mine Closure Plan as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

6. Validity of the environmental clearance will be five years from the date of this clearance, subject to earlier review in the event of violation or non-compliance of any of the conditions stipulated herein.

7. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

i) 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.

ii) Instances of violation if any shall be reported to the District Collector, Malappuram to take legal action under the Environment (Protection) Act, 1986.



7. The given address for correspondence with the authorised signatory of the project is Sri. Mayin Haji, M. C., Managing Director of M/s Caliut Granites (P) Ltd. Pullithodi House, Nallalam P.O., Cheruvannur Village, Kozhikkode Taluk, Kozhikkode District – 673027 .

Sd/-
P. MARA PANDIYAN, I.A.S.
Member Secretary, SEIAA
&
Addl. Chief Secretary
Environment & Forests Department
Government of Kerala.

To,

Sri. Mayin Haji, M. C.,
Managing Director, M/s Caliut Granites (P) Ltd.
Pullithodi House, Nallalam P.O.,
Cheruvannur Village, Kozhikkode Taluk,
Kozhikkode District – 673027

Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E&F Wing, II Block, Koramangala, Bangalore-560034
2. The Additional Chief Secretary to Government, Environment Department, Government of Kerala
3. The District Collector, Malappuram
4. Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm-24
5. Director, Mining & Geology, Thiruvananthapuram -4.
6. The Secretary, Malayattoor Neeleswaram Grama Panchayat, Pullikal P.O.,
MLP - 673 637
7. Chairman, SEIAA, Kerala
8. Website
9. S/F
10. O/c

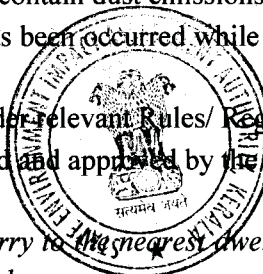


Forwarded/ By order

Administrator, SEIAA

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA
GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
- (iv) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project. .
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (vii) 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 dumpings and overburden and planted with indigenous plant species that are eco-friendly.
- (viii) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- (ix) *The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine.*
- (x) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xi) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiii) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xiv) A licensed person should supervise/ control the blasting operations.
- (xv) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xvii) Height of benches should not exceed 5m and width should not be less than 5m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) *Maximum depth of mining from general ground level at site shall not exceed 10m*
- (xx) No mining operations should be carried out at places having a slope greater than 45°.
- (xxi) Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiii) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- (xxiv) The transportation of minerals should be done in covered trucks to contain dust emissions.
- (xxv) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (xxvi) Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
- (xxvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- (xxviii) *A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided*



- (xxix) 100m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (xxxi) 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.
- (xxxii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxxiii) 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.
- (xxxiv) 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.
- (xxxv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
- (xxxvi) A copy of the clearance letter shall be sent by the proponent 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 put on the website of the company by the proponent.
- (xxxvii) The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xxxviii) The details of Environmental Clearance should be prominently displayed in a metallic board of '3ft X 3ft' with green background and yellow letters of Times New Roman font 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.
- (xxxix) 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.
- (xl) 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.





for Member Secretary
G. RAJEEV
Administrator

State Environment Impact Assessment Authority
Pallimukku, Pettah
Thiruvananthapuram-695024
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