



Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental clearance for the proposed quarry project in Sy.Nos. 2059/1, 2060, 2061, 2063 of Kuttichira Village & Survey Nos. 928, 929, 930, 931, 932/1, 932/2 at Kodassery Village, Kodassery Panchayath, Chalakudy Taluk, Thrissur District, Kerala by Sri. Basil Madappilly -Granted- Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 847/SEIAA/EC1/2859/2015

dated, Thiruvananthapuram 23-04-2016

- Read:-**
1. Application dated 20-07-2014 submitted by Sri. Basil Madappilly, Managing Partner, M/s Vilamana Industries, Kuttichira P.O, Chalakudy, Thrissur District-680724.
 2. Minutes of the 49th meeting of SEAC held on 07/08-12-2015.
 3. Minutes of the 48th meeting of SEIAA held on 23-01-2016
 4. Minutes of the 51st meeting of SEIAA held on 29-03-2016.

Environmental Clearance No. 42/2016.

Sri. Basil Madappilly, Managing Partner, M/s Vilamana Industries, Kuttichira P.O, Chalakudy, Thrissur District-680724, vide his application received on 24-07-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos 2059/1, 2060, 2061, 2063 of Kuttichira Village and Survey Nos. 928, 929, 930, 931, 932/1, 932/2 at Kodassery Village, Kodassery Panchayath, Chalakudy Taluk, Thrissur District, Kerala for an area of 4.94 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50hectares) 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) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. Other details of the proposal are as follows:

2. Basic information about the project		
Name of project		Quarry project of M/s Vilamana Industries
Brief description of the project		Quarry project with an area of 4.94 ha. & production capacity of 2,00,000 MTA
Category/Subcategory & Schedule		Category B/B/2 & Schedule 1 (a)
Location Sy no/ district, Taluk/ village etc.		Survey Nos. 2059/1, 2060, 2061, 2063, of Kuttichira Village and Survey Nos. 928, 929, 930, 931, 932/1, 932/2 of Kodassery Village & Panchayat, Chalakudy Taluk, Thrissur District, Kerala.
GPS co-ordinates		Latitude (N) 10°20'27.15" to 10°20'20.84" Longitude (E) 76°26'05.94" to 76°25'50.69"
for Mining projects	Extent of area (in hectares)	4.94 ha.
	Minimum and maximum height of excavation (MSL)	80 m MSL and 40 m MSL
	Life of mine proposed	About 6.5 Years
	Ultimate depth of mining (in MSL)	40 m. MSL
	Distance from the adjacent quarry	There is a quarry in operation (quarry of Mr. Shibu P. John Pynadath) working with short term permit for an area of 1.6187 ha. within 500 m. radius.
	Capacity of production	2,00,000 MTA
	Details of Project Cost	Rs. 3.40 Crores.
	Financial Statement including funding source and details of insurance	Insurance = Insurance to the quarry workers provided by the insurance company. Source of funding = Own source & loan from bank.
ABOUT THE PROJECT		
Environmental parameters considered		Description
WATER		
Water requirement & sources		The total water requirement is about 16 KLD in which 1 KLD is for domestic which would be sourced from open well, 13 KLD for dust suppression system in mine as well as ancillary unit and 2 KLD for plantation purposes and will be sourced from storm water pond.
RWH units proposed		Yes, Rain water collection pond.
Facilities for liquid waste treatment		Not applicable
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?		No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses.
Water quality meeting requirements		Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).
Does it have provisions for use of recycled water		No
LAND		
Proximity to forest lands		Muply forest, 5 km., NW
Is the land assigned for any other special purpose; Give details		No
Access road to the site – Width & Condition		6 m. tarred road, E side
Storage of explosives /hazardous substances		Yes,

	Explosives will be stored as per Explosive Act / Rules.		
Facility for solid waste management.	The municipal solid waste will be suitable disposed.		
Topographic features/ slope	The topography of the lease area is hilly area covered with native tree, climbers, grass, shrubs, herbs etc. Slope = towards S side.		
Proneness of the area for landslides	No		
Significant land disturbance resulting in erosion, subsidence & instability	No		
Top soil, overburden etc.	Top soil = 14,820 cu.m. Overburden = 4,940 cu.m.		
AIR			
Air quality meeting requirements	Yes		
Noise level meeting requirements	Yes		
Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.		
ENERGY			
Energy requirement	The total power requirement will be 75 kW for compressions, which will be drawn from diesel engine.		
Energy Sources	From diesel engine		
Extent of usage of alternative energy resources	No		
BIODIVERSITY			
Presence of any endangered species or red listed category	Nil as stated by the proponent		
Loss of native species and genetic diversity	Yes, For the quarrying activity all of native tree species, shrubs, herbs, climbers etc. existing at project site will be cleared.		
Likely displacement of fauna	Nil as stated by the proponent		
Any introduction of alien / invasive species	Nil as stated by the proponent		
SOCIAL ASPECTS			
Proximity to nearest habitation	105 m. , NW side		
CSR components suggested			
Sr. No	Description	Approx. Amount proposed	Remarks
1.	Promotion of education	Recurring = Rs. 2.42 lakhs Non-recurring = Rs. 5.36 lakhs	A detailed study on social status of the project site surroundings & need base study on proposed CSR activities were carried out. The summary of the report is provided.
2.	Health care	Recurring = Rs. 3.65 lakhs Non-recurring = Nil	
3.	Development of basic facilities	Recurring = Rs. 2.0 lakhs Non-recurring = Rs. 4.0 lakhs	
	Total	Recurring = Rs. 8.07 lakhs Non-recurring = Rs. 9.36 lakhs	
In addition to the above CSR activities, as part of Access and Benefit Share (ABS), 1 percent of annual profit of the company will be given to Biodiversity Management Committee of the Kodassery Panchayat towards the restoration of biodiversity loss due to quarrying activities.			
GENERAL			
Environment Management plan	Chapter 11 of Mining Plan		
Eco restoration programmes	The year wise programme of afforestation for the life of mine, about 4,500 trees will be planted. The main aim of		

	the green belt development is to restore the eco-system to its original form to a maximum extent by designing the green cover with the same native species.
Biomedical waste management	Not applicable
E-waste management	Not applicable
Sufficiency of parking spaces/ traffic management	Yes
Litigation/court cases, if any, against the project (provide details)	Nil as stated by the proponent
Details of Authorised Signatory	Mr. Basil Madappilly (Managing Partner) M/s Vilamana Industries Kuttichira P.O., Chalakudy, Thrissur, Kerala-680724. Ph. 0480-2740654 / 2745953 Mobile No. 9895807118 E-mail: vilamana99@gmail.com
Details of NABET approved EIA consultant organization	M/s Environmental Engineers & Consultants Pvt. Ltd. (at Sr. No. 54 as per MoEF & CC list of Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.

3. The proposal has been considered by SEAC in its 49th meeting held on 7th & 8th December 2015. The proponent attended the meeting. The total area proposed for EC is 4.94 ha., which is patta land out of a total area of more than 12 ha. Ultimate depth of mining proposed is 40 m MSL. The annual production capacity is 200,000 MT. The highest elevation of the lease area is 80 m MSL and lowest is 40 m MSL. The proponent has informed that the blasting time is scheduled on 5.00pm. The proponent also informed that the top soil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. The total power requirement will be 75 kw, which will be drawn from diesel engine. The proponent has stated that there is no litigation pending against the lease area/applicant of the proposed lease area in any court of law.

4. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report and all other documents submitted along with the Form I application and recommended for issuance of Environmental Clearance for mining with general conditions stipulated for mining projects.

5. The proposal was considered in the 48th meeting of SEIAA held on 23rd January 2015 and Authority is of the view that if the land involved is assigned Patta Land for specific purpose not being mining, quarrying is not possible. Proponent to produce the assignment order (Patta) to verify the conditions.

6. On submission of the copy of "Patta" certificate, Certificate from the revenue authority (No. 721/16, 720/16, 211/16 & 212/16 from Village Officer., Kodasserry) that the land involved is not assigned for other purpose and copy of lease order from Government and in the light of the Judgement

of High Court of Kerala (that the general Patta conditions will not apply against mining, when Govt. have granted lease/permit for mining and collected royalty therefor) the proposal was again considered by 51st meeting of SEIAA held on 29-03-2016 and the Authority decided to issue E.C as per decision in the 48th meeting.

7. As per the decision of SEIAA in the 48th meeting held on 29-03-2016, Environmental Clearance be given to the quarry project subject to the general conditions stipulated for mining projects and the mitigation measures undertaken in the EMP in the PFR. Environmental Clearance is therefore granted to the quarry project of Sri. Basil Madappilly, Managing Partner, M/s Vilamana Industries, Kuttichira P.O, Chalakudy, Thrissur District-680724, Kerala subject to the the general conditions annexed hereto.

8. 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 4 of the Environment Management Plan 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 6 (Mine Drainage), Chapter 7 (stacking of mineral rejects and disposal of wastes), Chapter 11 (EMP) and Chapter 11 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.

9. Validity of the environmental clearance will be five years form the date of this clearance, subject to earlier review in the event of violation or non-compliance of any of the conditions stipulated herein or genuine complaints from residents within the security area of the quarry.

10. Compliance of the conditions herein will be monitored by the Authority 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, Thrissur to take legal action under the Environment (Protection) Act 1986.

11. The given address for correspondence with the authorised signatory of the project is Sri. Basil Madappilly, Managing Partner, M/s Vilamana Industries, Kuttichira P.O, Chalakudy, Thrissur District-680724.



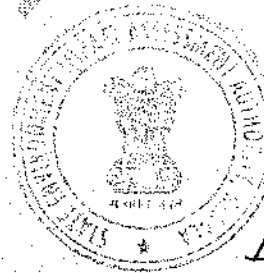
Sd/-
P. Mara Pandiyan., I.A.S
Member Secretary (SEIAA)
&
Additional Chief Secretary to Government
Environment & Forest Department
Government of Kerala.

To,

Basil Madappilly
Managing Partner,
M/s Vilamana Industries
Kuttichira P.O.,
Chalakudy, Thrissur,
Kerala-680724.

Copy to:

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E& F Wing, II block, Koramangala, Bangalore-560034.
2. Principal Secretary to Government, Environment Department.
3. The District Collector, Thrissur
4. The Director, Department of Environment & Climate Change.
5. The Director, Mining and Geology Department, Kesavadasapuram, Thiruvananthapuram-4
6. The Secretary, Kodasserry Grama Panchayat, Chattikullam P.O., Thrissur- 680721.
7. Chairman, SEIAA
8. Website
9. Stock File
10. O/C.



Forwarded/ By order

Administrator
SEIAA

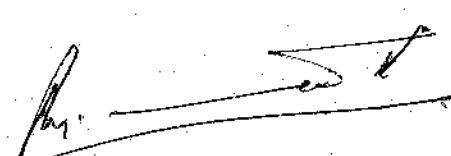
STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

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 of 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 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the E.C.
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 of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.**
10. Warning alarms indicating the time of blasting (to be done at specific 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 5 m, and width should not be less than 5 m, if there is no mention is the mining plan/specific condition.
18. Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
19. Maximum depth of mining from general ground level at site shall not exceed 10m
20. No mining operations should be carried out at places having a slope greater than 45°.
21. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
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 loss 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/ Regulations.
27. Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
28. 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.
29. 100 m buffer distance should be maintained from forest boundaries.

30. Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating 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 environmental parameters/impacts as assessed, based on which only the E.C is issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority.
33. The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
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 project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
36. 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.
37. The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office.
38. 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 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 SEIAA. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, 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 & 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 8m and width 20m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.
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 PM₁₀ and PM_{2.5} such as haul Road, loading and unloading points and transfer points – it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard.
 46. Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
 47. Measures should be taken for control of noise levels below 85 dBA in the work environment.
 48. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.
 49. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.
 50. The Regional Office of MOEF & CC located at Bangalore shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data/information/monitoring reports.
 51. Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
 52. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 53. The SEIAA 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 SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
 54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project.
 55. This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala, whichever is earlier.
 56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
 57. The mining operation shall be restricted to above ground water table and it should not intersect ground water table.
 58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution taking centre. Washing of all vehicles shall be inside the lease area'
 59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
 60. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.
 61. Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.


For Member Secretary, SEIAA Kerala

G. RAJEEV
Administrator
State Environment Impact Assessment Authority
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Thiruvananthapuram-695024
Phone: 0471-2742264

