



Validity expires on 21.11.2022

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub:SEIAA- Environmental clearance for the Proposed quarry project in Sy. No. 298/1A1A1A of Ambalavayal Village, Sulthan Bathery Taluk, Wayanad District of Sri. Clippy. K.G. - Granted – Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY, KERALA

No.903/EC4/3464/SEIAA/2015

Dated,Thiruvananthapuram, 22.11.2017

- Ref:
1. Application received on 25-08-2015 from Sri. Clippy K.G, Managing Partner, M/s C.B.M. Enterprises, Kolagappara P.O, Sulthan Bathery Taluk, Wayanad District- 673591.
 2. Minutes of the 55th Meeting of SEAC held on 10th, 11th & 20th May, 2016.
 3. Minutes of the 59th Meeting of SEAC held on 11th & 12th July, 2016.
 4. Minutes of the 62nd Meeting of SEAC held on 06th & 07th September, 2017.
 5. Minutes of the 71st Meeting of SEAC held on 20th and 21st April, 2017.
 6. Minutes of the 75th Meeting of SEAC held on 29th and 30th June, 2017.
 7. Minutes of the 73rd Meeting of SEIAA held on 15th September, 2017.
 8. Affidavit received dated 31.10.2017 from Sri. Clippy K.G, Managing Partner, M/s C.B.M. Enterprises

ENVIRONMENTAL CLEARANCE NO. 85/2017

Sri. Clippy K.G, Managing Partner, M/s C.B.M. Enterprises, Kolagappara P.O, Sulthan Bathery Taluk, Wayanad District- 673591, vide his application received on 25.08.2015, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. No. 298/1A1A1A Ambalavayal Village, Sulthan Bathery Taluk, Wayanad District, Kerala for an area of 1.8717 hectares. The project comes under Category B/B2, Schedule 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. The project comes under Category B2 as per Notification No.S.O.141 (E) dt.15.01.2016 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

Details of the project as furnished by the applicant are as follows:-

BASIC INFORMATION OF QUARRY

Project details		
1.	File No.	903 / SEIAA / EC4 / 3464 / 2015
2.	Name /Title of the project	Environment Clearance for Building Stone Quarry project of M/s C.B.M. Enterprises for area 1.8717 hectares.
3.	Name and address of project proponent.	Mr. Clippy K.G. (Managing Partner) M/s C.B.M. Enterprises Mattappara, Kolagappara P.O., Sulthan Bathery, Wayanad District, Kerala-673591.
4.	Owner of the land	Private own land
5.	Survey No. District/Taluk/ and Village etc.	Sy. No. 298/1A1A1A of Ambalavayal Village, Sulthan Bathery Taluk, Wayanad District, Kerala.
6.	Details of period of lease or permit with number including the beginning and expiry date of lease/permit period (Copy to be attached)	Not applicable - New quarry
7.	Present Status of the project a. Date & Year of starting the work of the quarry project.	Not applicable - New quarry
	b. whether the quarry is	Not applicable - New quarry
	working at present or not ?	
	c. If stopped working since when?	Not applicable - New quarry
8.	Date of submission of Application	25.08.2015
9.	Brief description of the project.	The land for the proposed quarry is private owned land and the land is possessed in the name of M/s C.B.M. Enterprises. The targeted production of mine will be 90,000 MTA. The estimated project cost will be Rs. 1.75 Crores. The expected life of mine will be about 4 years. The working will be carried out by opencast semi-mechanized method.
10.	Details of Authorized Signatory and address for correspondence	Mr. Clippy K.G. (Managing Partner) M/s C.B.M. Enterprises Mattappara, Kolagappara P.O., Sulthan Bathery,

		Wayanad District, Kerala-673591.	
Land Details			
11.	a) Extent of area in hectares	1.8717 ha.	
12.	b) Is the property forest land/Govt. land/own land/patta land	Private own land	
13.	c) Quantity of top soil/over burden produced and managed	<p>A total estimated quantity of 12,331 cu. m. of topsoil is proposed to be removed during the mining operations. The topsoil excavated from the quarry will be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Precautions will be taken to limit the height of the topsoil dump to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.</p> <p>About 6,165 cu.m. of overburden will be generated throughout the mine life. This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.</p>	
14.	d) Latitude and Longitude	Latitude (N)	11°38'23.39" to 11°38'28.88"
		Longitude (E)	76°11'38.03" to 76°11'44.97"
15.	e) Topography of land and elevation	<p>Part of the proposed land exposed rock and there is no vegetation and remaining part of the proposed land is covered with native trees, shrubs, herbs, grass, climbers, bushes etc.</p> <p>The highest elevation of the lease area is 825 m MSL and lowest is 810 m MSL.</p>	
16.	f) Slope analysis	Towards north-west side.	
17.	g) Will there be any significant land disturbance resulting in soil erosion, subsidence & natural drainage.	<p>Due care will be taken to provide channel all around the foot of the hill to collect run off and also to avoid soil erosion.</p> <p>There is no danger of flood or inundation as the proposed working is above the normal ground level. The area is not susceptible to floods.</p>	
18.	h) Access road to the site width and condition	6 m. wide tarred road.	
19.	i) Will there be any adverse impact on	The land used will be fully reclaimed and rehabilitated by backfilling the pits and plantation. Plantation and	

	the aesthetics of the proposal site	afforestation will add to the improvement in environment and aesthetic beauty of the area.
I. Mining details		
20.	a) Minimum and Maximum height of excavation.	The exploitation of mineral is being done from 825 m. MSL to 800 m. MSL in conceptual phase.
21.	b) Life of mine proposed.	About 4 years
22.	c) Underground mining if any proposed	Not applicable
23.	d) Method of Mining	The working will be carried out by opencast semi-mechanized method as per the approved Mining Plan.
24.	e) Distance from the adjacent quarry	There is a no quarry in operation within 500 m. of the proposed quarry. In this regard cluster certificate is submitted along with the application.
25.	f) Cluster condition if any	The copy of cluster certificate is already submitted with the Environment Clearance Application.
26.	g) Has "No cluster certificate" submitted?	Cluster certificate is already submitted with Environment Clearance Application.
27.	h) Distance from nearby habitation	152 m. (W direction)
28.	i) Distance from nearby forest, if applicable	Kuppadi Forest – 15 km. (NE)
29.	j) Distance from protected area, Wildlife Sanctuary, National Park etc.	None within the study area
30.	k) Distance from nearby streams/rivers/National Highway and Roads	<u>Water Bodies :-</u> Karapuzha – about 6 km. SW <u>Highway</u> – N.H. 212 (Kozhikode-Mysore Highway) – about 3 km., N
31.	l) Is ESA applicable? If so distance from ESA limit	Not applicable
32.	m) Has approved mining plan, prepared by RQP submitted?	Yes, the approved mining plan prepared by RQP is already submitted along with the application.

33.	n) Capacity of production in TPA	90,000 MTA
34.	o) Details of mining process	The mining will be done by open cast semi-mechanized method of mining. The bench height and width will be maintained 5 m. Excavated material is transported to the crusher unit for further processing. The ultimate depth of the mine workings is estimated to reach upto 800 m MSL.
II. Details of Project cost		
35.	a) Land cost	Rs. 1.75 Crores (All inclusive)
36.	b) Plant and Machinery	Rs. 1.75 Crores (All inclusive)
37.	c) Total Cost	Rs. 1.75 Crores (All inclusive)
38.	V. Financial Statement including funding source and details of insurance etc.	<p>Project Cost = Rs. 1.75 Crores</p> <p>Insurance = Insurance to the quarry workers would provide through insurance company.</p> <p>Funding = Own source & bank loan</p>
		<p>Air Pollution</p> <p>Mining activities will generate certain quantities of dust during drilling, blasting, loading and transportation operations. The following measures will be taken to mitigate the fugitive dust from different operations.</p> <ul style="list-style-type: none"> • Laying of haul road as per the standards, black topping of permanent haul road and service road to avoid or eliminate air – borne dust. • To avoid the dust generation from the drilling operations, wet drilling method will be adopted. • Drill machines will be equipped with dust collectors. • Use of appropriate explosives for blasting and avoiding overcharging of blast holes. • Controlled blasting techniques will be adopted. • Watering of haul road and other road at regular intervals. • Provision of dust filters/ mask to workers working at highly dust prone and affected areas. • Provision of green belt all along the
39.	Management Plan	

			<p>periphery of the lease area.</p> <ul style="list-style-type: none"> • Periodical monitoring of ambient air quality in and around the lease area. <p>The extracted mineral will be transported from the quarry to the end user by adopting following measures so as to minimize dust emissions.</p> <ul style="list-style-type: none"> • In case of long transportation the trucks after loading will be covered with tarpaulin sheets. • Speed of the vehicles will be maintained within the prescribed limits. • Trucks will not be over loaded and will be maintained to the body level
		Water Pollution	<p>Provision of storm water collection pond with an appropriate capacity. The water requirement for sprinkling on sources of dust emission, on roads, landscaping etc. Can be met from the stored rainwater in the pond/tank.</p>
		Noise	<p>The major noise generating source from the proposed activity is working machinery, drilling, blasting and plying of vehicles. The following control measures are to be undertaken to bring down the noise levels:-</p> <ul style="list-style-type: none"> • Proper maintenance of machinery, equipments and improvement on design of machines. • Use of personal protective devices i.e., earmuffs and earplugs by workers, who are working in high noise generating areas. • Creation of wide green belt of dense foliage between mine areas and residential colonies. • Proper training to personnel to create awareness about adverse noise level effects. • Planned noise monitoring at suitable

			locations in the plant and outside location for proper effective remedial actions.
		Solid Waste Management	<p>Topsoil Management</p> <p>The topsoil excavated from the quarry will be dumped / stacked separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation as part of eco-restoration. Precautions will be taken to limit the height of the topsoil dump / stacked to 5 to 6 meters in order to preserve its fertility and shelf life. It will be suitably protected from soil erosion and infertility by planting fodder grass and leguminous plants during temporary storage.</p> <p>Overburden Management</p> <p>This waste will be utilized within the pit for lying of haul roads. At the end use, OB can be reutilized as soil base for plantation.</p>
		Eco-restoration	The year wise programme of eco-restoration for life of mine will be made and about 1,600 trees will be planted in an area of 1.6141 ha.
40.	VI. Whether Environment Management Plan or Eco restoration Plan satisfactory?	Yes.	
41.	VII. Does it suggest mitigation measures for each activity	Detailed Environment Management Plan is already submitted with E.C. Application.	
42.	VIII. If Pre-Feasibility Report	Detailed Environment Management Plan is already submitted with E.C. Application.	

	(PFR) satisfactory	
43.	IX. Does it need public hearing	Not Applicable
44.	X. Details of litigation and Court verdict if any	No litigation pending.
45.	XI. Details of public complaint, if any	None
46.	XII. Details of statutory sanction required	The following statutory sanction required :- ➤ Consents from the Kerala State Pollution Control Board. ➤ Permission from Mining & Geology Department. ➤ Permission from Explosive Department ➤ Permission from Panchayat Office
47.	XIII. If CRZ recommendation applicable?	Not Applicable
PART B		
Environment Impact Assessment and Mitigation Measures		
Impact on water		
48.	a) Details of water requirement per day in KLD	The total water requirement is about 15 KLD.
49.	b) Water source/sources.	The total water requirement is about 15 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as proposed ancillary units and 2 KLD for plantation purposes and will be sourced from storm water pond/tank.
50.	c) Expected water use per day in KLD.	15 KLD.
51.	d) Details of water requirements met from water harvesting.	12 KLD for dust suppression system in mine as well as proposed ancillary units and 2 KLD for plantation purposes and will be sourced from storm water pond/tank.
52.	e) What are the impact of the proposal on the ground water?	No significant impact envisaged on ground water due to the mining project.
53.	f) How much of the water requirement can be met from the recycling of treated waste water? (Facilities for liquid	No.

	waste treatment)	
54.	g) What is the incremental pollution load from waste water generated from the proposed activities?	The sewage to a tune of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit.
55.	h) How is the storm water from within the site managed?	<ul style="list-style-type: none"> ➤ Storm water drains with silt traps will be suitably constructed all along the periphery of the pit area to collect the run-off from the lease area and divert into the storm water pond/tanks proposed within the complex. ➤ All measures will be taken not to disturb the existing drainage pattern adjacent to the other property. ➤ De-siltation traps and storm water collection pond proposed for silt removal. ➤ The storm water collected from the lease area will be utilized for dust suppression on haul roads, plantation within the premises etc.
Impact on Biodiversity and Eco restoration Programmes		
56.	a) Will the project involve extensive clearing or modification of vegetation (Provide details)	Due to the mining activities, there will be loss of some native species and vegetation. However, some of these species will be planted at the end use for eco-restoration.
		The year wise programme of eco-restoration for the life of mine will be made and about 1,600 trees will be planted in an area of 1.6141 ha.
57.	b) What are the measures proposed to minimize the likely impact on vegetation (details of proposal for tree plantation/ landscaping)	<p>Ecological restoration for the mined area by plantation of the species as per the time schedule suggested below: -</p> <p>First Six months -- Herbs & grass</p> <p>Next Six months -- Shrubs</p> <p>Next Six months onwards -- Trees</p> <p>Selection of species is based on High Dust Capturing, Soil Holding Capacity, ground water recharge capacity etc. More focus is given for medicinal plants.</p>
58.	c) Is there any displacement of fauna – both terrestrial and aquatic. – If so what are the mitigation measures ? Presence of	<p>No</p> <p>No endangered species found at site</p>

	any endangered species or red listed category (in detail)	
Impact on Air Environment		
59.	a) What are the mitigation measures on generation of dust, smoke and air quality	Details already provided at EMP section at Sr. No. 39 above.
60.	b) Details of internal traffic management of the site.	Designated space will be provided for parking of truck/tipper within the site. For the purposes of mining activities, existing roads are sufficient. However, haul road will be suitably developed within the proposed area. Speed of the vehicles will be maintained within the prescribed limits (Speed Governor fitted).
61.	c) Details of noise from traffic, machines and vibrator and mitigation measures	Details already provided at EMP section at Sr. No. 39 above
62.	d) Impact of DG sets and other equipments on noise and vibration and ambient air quality around the project site and mitigation measures.	Details already provided at EMP section at Sr. No. 39 above
63.	e) Air quality monitoring in detail	Details already provided at EMP section at Sr. No. 39 above.
Energy Conservation		
64.	a) Details of power requirement and source of supply.	The total power requirement will be 75 kW, which will be drawn from diesel engine.
65.	b) Details of renewable energy (non – conventional) used.	We will promote renewable energy resources.
Risk Management		
66.	a) Are there sufficient measures proposed for risk hazards in case of emergency such as accident at the site?	Detailed Environment Management Plan is already submitted with E.C. Application.
67.	b) Are proposals for	Barbed wire fencing will be done all around the quarry site.

	<p>fencing around the quarry satisfactory?</p> <p>c) Storage of explosives/hazardous substance in detail</p> <p>d) Facility for solid waste management</p>	<p>The stone quarry mine will result in increase in frequency of blasting for mining the mineral. However, controlled blasting with optimum charge of holes will be carried out to loosen the rock. Explosion hazards are envisaged due to mishandling of explosives. Explosives will be handled with utmost care in compliance of conditions imposed by Chief Controller of Explosive & Metalliferous Mines Regulation, 1961.</p> <p>Top soil and over burden generated from the site will be stored separately on earmarked place and will be used for eco-restoration and internal road development.</p>									
Socio Economic Impacts											
68.	a) Will the project cause adverse effects on local communities disturbance to sacred sites or other cultural values. What are the safe guards proposed?	No									
	b) Will the proposal result in any	The proposed project will directly / indirectly develop the area by providing employment opportunities. With the									
69.	changes to the demographic structure of local population. If so, provide details.	proposed development in and around the area there will be many supporting facilities/ infrastructure eventually leading to the development of the area.									
70.	c) Are the CSR proposals satisfactory. Give details	<p>Yes.</p> <p>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 given below :-</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Particulars</th><th>Rs in lakhs (approx.)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Infrastructure development</td><td>Recurring = Nil Non-recurring = Rs. 4.9 lakhs</td></tr> <tr> <td>2</td><td>Promotion of</td><td>Recurring = Rs. 4.50 lakhs</td></tr> </tbody> </table>	Sl. No.	Particulars	Rs in lakhs (approx.)	1	Infrastructure development	Recurring = Nil Non-recurring = Rs. 4.9 lakhs	2	Promotion of	Recurring = Rs. 4.50 lakhs
Sl. No.	Particulars	Rs in lakhs (approx.)									
1	Infrastructure development	Recurring = Nil Non-recurring = Rs. 4.9 lakhs									
2	Promotion of	Recurring = Rs. 4.50 lakhs									

		curricular & extracurricular activities	Non-recurring = Nil
		3 Health Care	Recurring = Rs. 2.40 lakhs Non-recurring = Rs. 6.0 lakhs
		4 Community organization	Recurring = Rs. 3.75 lakhs Non-recurring = Nil
		5 Ensuring environmental sustainability	Recurring = Rs. 3.0 lakhs Non-recurring = Nil
		6 Reduction in carbon footprint & CO ₂ emission	Recurring = Nil Non-recurring = Rs. 0.90 lakhs
		Total	Recurring = About Rs. 13.65 lakhs Non-recurring = About Rs. 11.8 lakhs
71.	d) What are the projects benefits in terms of employment potential?	Due to the mining activity and due to the attached ancillary unit, there will be workers attracted to the project area. It is proposed to employ 24 persons in the project.	
PART C			
72.	Details of NABET approved EIA Consultant engaged- Their name, address and accreditation details	M/s Environmental Engineers & Consultants Pvt. Ltd. (NABET Accredited Consultant Organization) Head Office :- A1-198, Janak Puri, New Delhi. Branch Office:- C-306, Kanchanjunga Apartments, Palarivattom P.O., Kochi, Kerala.	
Summary and Conclusion			
73.	a) Overall justification for implementation of the project.	It is predicted that socio-economic impact due to this project will positively increase the chance of more employment opportunities for local inhabitants. There are no Resettlement and Rehabilitation issues involved in this project. The project infrastructures will be of use to people of the area. The revenue of the State Govt. will be definitely increasing due to the proposed activity. The entire project area is devoid of any endangered flora and fauna. It is proposed to reclaim the land and develop green cover for eco-restoration with native species to a maximum possible extent. Additionally, an area is earmarked outside the proposed mining area for compensatory mass	

		plantation. Also, a storm water pond/tank is proposed outside the mining area for storage of rain water and for its subsequent use so as to conserve fresh water consumption. Thus the proposed project is not likely to affect the environment or adjacent ecosystem adversely.
74.	Explanation of how adverse impact have been mitigated.	Detailed Pre-Feasibility Report (PFR) with Environment Management Plan (EMP) is already submitted with E.C. Application.

2. The proposal was considered in the 55th meeting of SEAC, Kerala, held on 10th, 11th and 20th of May, 2016. The committee observed that it is likely that the area falls within 10kms of the Wayanad Wildlife Sanctuary. If so, the proponent has to apply for Wild Life Clearance from the MoEF. This aspect may be examined with the records at the time of field visit. The item is **deferred** for field visit. Site visit was conducted on 23.6.2016 by subcommittee consisting of Dr. P. S. Harikumar, Dr George Chackachery and Sri S. Ajayakumar, and reported that:-

- The owner of the quarry should explain in one of the SEAC meetings, the exact area of mining
- The boundary of the mining area should be marked and demarcated
- A proper road should be provided to reach the site
- The proponent has to apply for wildlife clearance and the proof has to be submitted
- The representatives are not sure about anything and they responded as if they are not interested in getting the clearance

The application needs to be considered further only after the owner of the quarry in person explain in one of the SEAC meetings, the exact area of mining, boundary of the mining area, nearest residential building, etc. Based on the explanation, decision may be taken whether another field visits to be conducted to appraise the case.

3. The proposal was considered in the 59th meeting of SEAC, Kerala, held on 11th and 12th July, 2016. Further to the intimation of SEAC, the proponent attended the meeting; the committee expressed the apprehension regarding the site visit and deferred the item and directed to submit the following details.

1. Map showing the boundary of the project. Boundary shall be marked at site.
 2. Location sketch
 3. Copy of application for Forest clearance from NBWL
- The proponent submitted the documents.

4. The proposal was considered in the 62nd meeting of SEAC, Kerala, held on 06th & 07th September, 2016. The committee appraised the proposal based on the mining plan, pre-feasibility report, field inspection report and all other documents submitted by the proponent. The Committee decided to request the proponent to mark the boundary in the field and intimate, so that the subcommittee can conduct a proper site inspection. Hence the item was deferred.

Accordingly, the Subcommittee Members of SEAC carried out site inspection and the report is given below:

Field visit to the Quarry project site of Sri. Clippy K. G. Ambalavayal Village, Sulthan Bathery Taluk, Wayanad District, was carried out on 01.04.2017 by the sub-committee of SEAC, Kerala, comprising Dr. Khaleel Chowwa and Sri. John Mathai. The proponent, Sri. Clippy KG, along with other representatives was present at the site at the time of site visit.

This project is located at about 3 km northwest of Ambalavayal junction with the approach from Krishnagiri on the Meenangadi- Sulthanbatterly road. The Proponent has acquired large area in this part from individuals and the quarry lease area falls within it with the exception of the eastern part forming Govt Poramboke land. Boundary pillars of the proposed quarry area are erected and numbered as given in the surface plan. The GPS coordinates of some of them were verified and found correct. The rock type is mostly composite gneiss with prominent granitic bands. The overall slope of the land is towards north but the western and eastern part is elevated sloping to the centre. In the elevated parts, rock is exposed in continuous sections while in the central part rock admixed with soil. The average OB thickness is less than a metre. The storm water from the entire lease area is presently channelized through the central low lying part to the north where it is led into an EW valley. Floral and faunal biodiversity is not observed as the area is mostly rocky and disturbed. Several abandoned houses are seen in the area in possession but as such only two houses are under occupation. It is reported that the occupants are presently staying on rent. Two abandoned quarry pits are noticed within 500 m from the periphery. Based on an overall evaluation of the site it can be recommended subject to:-

- 1. The certificate that the land is not assigned for any specific purpose must be produced.*
- 2. The approach road, presently planned from the north, must be widened to say 7 m width and surfaced for smooth movement of vehicles.*
- 3. The two houses seen within 100 m of the proposed quarry area where settlement is noted has to be evacuated.*
- 4. At least two check dams and a RWH structure to be provided in the lowest part on the northern side for clarification and storage of water.*
- 5. Considering the location of a wide valley in the vicinity with fairly good agricultural practise, the ultimate depth of quarry must be limited 770 m amsl (30 m depth from the lowest point of the lease area) being the elevation of valley floor/ stream bed*

6. *There are IUCN Red listed vulnerable species of plants like Acacia ferruginea and Cinnamomum macrocarpum and endemic species like Cinnamomum malabattrum, Cyanotis papilionacea, Dalbergia horrida, Ficus beddomei etc., in the vicinity of the quarry. Care must be taken not to disturb these species and provide separate plot to protect such type of plants.*

5. The proposal was placed in the 71st meeting of SEAC held on 20th & 21st April 2017. The Committee appraised the proposal based on Form I, Pre-feasibility Report, Mining Plan, field inspection report of the Sub Committee and all other documents submitted with the proposal. The Committee decided to **defer the item** for submission of the following document/details.

1. *The certificate that the land is not assigned for any specific purpose must be produced.*
2. *The two houses seen within 100 m of the proposed quarry area were noted to have been presently occupied. Since they are owned by the proponent they are to be vacated and fact intimated.*

6. As the proponent has submitted the documents sought by 71st SEAC the proposal was placed in the 75th meeting of SEAC held on 29th & 30th June 2017. The Committee verified the additional documents submitted by the proponent and found satisfactory. Based on the Mining plan, Form.1, Pre-Feasibility Report, field visit report and all other documents submitted with the proposal, the Committee decided to **Recommend for issuance of EC** subject to general conditions in addition to the following specific condition.

1. *The approach road, presently planned from the north, must be widened to say 7 m width and surfaced for smooth movement of vehicles.*
2. *Two buildings within 100 m of the quarry area are presently used for residential purpose. The existing tenants have to be evacuated and the buildings should be demolished.*
3. *At least two check dams and a RWH structure to be provided in the lowest part on the northern side for clarification and storage of water.*
4. *Considering the location of a wide valley in the vicinity with fairly good agricultural practice, the ultimate depth of quarry must be limited 770 m msl (30 m depth from the lowest point of the lease area) being the elevation of valley floor/ stream bed.*
5. *The IUCN Red listed vulnerable species and endemic species of plants referred in the field inspection report should be protected insitu by fencing and a buffer distance from the area should be left out for mining.*

SEIAA may also obtain a commitment from the proponent to spent an appropriate amount for CSR activities for the welfare of the local community in consultation with the local body.

7. The proposal was placed in the 73rd meeting of SEIAA held on 15th September,

2017. Authority accepted the recommendation of SEAC and decided to issue EC subject to general condition in addition to the following specific conditions.

- 1. The approach road, presently planned from the north, must be widened to say 7 m width and surfaced for smooth movement of vehicles.*
- 2. Two buildings within 100 m of the quarry area are presently used for residential purpose. The existing tenants have to be evacuated and the buildings should be demolished.*
- 3. At least two check dams and a RWH structure to be provided in the lowest part on the northern side for clarification and storage of water.*
- 4. Considering the location of a wide valley in the vicinity with fairly good agricultural practice, the ultimate depth of quarry must be limited 770 m msl (30-m depth from the lowest point of the lease area) being the elevation of valley floor/ stream bed.*
- 5. The IUCN Red listed vulnerable species and endemic species of plants referred in the field inspection report should be protected insitu by fencing and a buffer distance from the area should be left out for mining.*

EC shall be issued only after ascertaining by a competent authority that the above conditions have been fulfilled, particularly how the IUCN Red Listed vulnerable endemic species are protected. A revised CSR activity amounting to a minimum of 2% of the total project cost is to be submitted. A notarised affidavit for the commitment of CSR activities and agreeing to all the general and specific conditions should be submitted before the issuance of EC.

8. The proponent has submitted an affidavit vide reference 8th cited, satisfying all the above conditions. Environmental clearance as per the EIA notification 2006 is hereby accorded for the proposed building stone quarry project in Sy. No. 298/1A1A1A of Ambalavayal Village, Sulthan Bathery Taluk, Wayanad District, for Quarry of Sri. Clippy K.G, Managing Partner, M/s C.B.M. Enterprises, Kolagappara P.O, Sulthan Bathery Taluk, Wayanad District- 673591 for an area of 1.8717 hectares, subject to the specific conditions as recommended in para 7 above, 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 these proceedings as if incorporated herein. Also the general conditions for projects stipulated for mining (items 1 to 61), appended hereto will be applicable and have to be strictly adhered to.

9. 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 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 the undertakings in Chapter 4 (Mining), Chapter 5 (Blasting), Chapter 6 (Mine Drainage), Chapter 7 (Stacking of Mineral rejects and Disposal of

waste) Chapter 11 (EMP) Chapter 12 (Progressive Mine Closure Plan) of the Mining Planas submitted will be deemed to be part of this proceedings as conditions as undertaken by the proponent, as if incorporated herein.

10. Validity of the Environmental Clearance will be five years from the date of this clearance, subject to inspection by SEIAA on annual basis and compliance of the conditions, subject to earlier review of E.C in case of violation or non-compliance of conditions or genuine complaints from residents within the security area of the quarry.

11. Compliance of 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 & 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, Wayanad to take legal action under the Environment (Protection) Act 1986.
- iii. The given address for correspondence with the authorised signatory of the project is Sri. Clippy K.G, Managing Partner, M/s C.B.M. Enterprises, Kolagappara P.O, Sulthan Bathery Taluk, Wayanad District- 673591

Sd/-

JAMES VARGHESE.I.A.S,
Member Secretary (SEIAA)

To

Sri. Clippy K.G,
Managing Partner,
M/s C.B.M. Enterprises,
Kolagappara P.O,
Sulthan Bathery Taluk,
Wayanad District- 673591

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 Director, Mining & Geology, Thiruvananthapuram -4.
4. The Member Secretary, Kerala State Pollution Control Board
5. The District Collector, Wayanad
6. The District Geologist, Wayanad
7. The Tahasildar, Sulthan Bathery Taluk, Wayanad District
8. Chairman, SEIAA.
9. Website.
10. S/f
11. 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 proponents 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 thisimplementation of any of the above conditions is nct 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 on 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

