

the project proponent has to apply with all the required documents as per the OM for re-issuing the EC. In this situation, **the Committee decided to recommend that SEIAA may direct the Project Proponent to comply with the conditions as per S O. 1807(E) dated 12.04.2022, OM dated 13.12.2022 and OM dated.28.04.2023.**

**Item No.148.10 District Survey Report- Kannur District- For Appraisal
(File No.412/A2/2021/ SEIAA)**

The Committee decided to circulate the draft DSR to the Members of SEAC to get remarks for further decision.

**Item No.148.11 Environmental Clearance issued from DEIAA, Kasargod for the granite building stone quarry in Re survey No. 193 at Maloth Village, Vellarikund Taluk, Kasargod District, Kerala -Judgment in WP (C) 21021 filed by Sinoj Thomas - regarding the validity of EC
(File No.2242/ /EC2/2020/SEIAA)**

Decision: As invited, the proponent Sri. Sinoj Thomas and the RQP, Sri. Thambu Cherian were present. The RQP made the presentation. The EC dated 25.04.2018 was obtained from DEIAA, Kasargod. The project is yet to be started for want of lease. The project area is 2.19 km from Talakavery Wild Life Sanctuary and 90 m away from High Hazard Zone. The Committee observed that as per the O.M dated 28.04.2023, all the ECs issued by the DEIAAs between 15.01.2016 to 13.09.2018 shall be reappraised by the concerned SEACs and fresh ECs in this regard shall be granted by SEIAAs based on such appraisal. **Therefore, the Committee decided direct the Project Proponent to submit a fresh EC application in PARIVESH Portal by including all the documents mentioned in the O.M. dated 28.04.2023. The Project Proponent is also directed to submit the clarification regarding the distance from Wild Life Sanctuary and the proof of application submitted for WLC from the SCNBWL.**

PARIVESH FILES

PART – 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

- 1. SIA/KL/INFRA2/405879/2023, 2158/EC2/2022/SEIAA
Expansion of the Existing Hospital project, M/s Dr. K.M. Cherian Institute of Medical Sciences Pvt. Ltd. at Sy. Nos. 533/6-3-3,534/6-1,534/10-2-2, 534/13-1, 534/13, 534/11,533/6-1-1, 137 533/7-1, 534/9, 533/6-1-2, 533/7-2, 534/13-2, 534/6, 534/10-2, 534/8-1,534/8-2, 534/12, 534/10, 534/10/2 in Thiruvandoor Village & Panchayat, Chengannur Taluk, Alappuzha, Kerala.**

Decision : As invited, the authorized person by the project proponent Sri. Sebi Paulose, and Consultant Sri. P Z Thomas were present. The Consultant made the presentation. The Committee observed that the CCR from MoEFCC, Bangalore was received on 04.11.2022. The earlier EC was issued vide order No. 1156(A)/EC/SEIAA/KL/2017 dated 16-03-2018 for total built up area of 37,723.22 m² in 1.6982 Ha of land. The total built-up area after expansion becomes 67,313.25 sq.m in 1.9426 Ha of land. The parking is provided at the ground level. The construction is proposed 5m above ground level which is above high flood level as per 2018 flood. The presentation and field inspection has been completed. Based on discussions, **the Committee decided to recommend EC for a period of 10 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Climate-responsive design as per Green Building Guidelines in practice should be adopted.
2. Vide GO (MS) No. 39/2022/LSGD dated 25.2.2022, the Government of Kerala has introduced Green rating and Green building certification to buildings based on green standards. The guidelines published as part of the GO should be adhered to.
3. The FAR should be as per the KMBR.
4. Vegetation should be adopted appropriately on the ground as well as overbuilt structures such as roofs, basements, podiums etc.
5. Green belt surrounding the campus, avenue tree planting, and garden development should commence from the beginning of the construction phase. Only local species should be used for green belt and avenue trees.
6. The exposed roof area and parking should be covered with material having a high solar reflective index
7. Building design should cater to the differently-abled citizens
8. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
9. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area unpolluted and if necessary, the carrying capacity of the natural drain should be enhanced to contain the peak flow
10. Water-efficient plumbing features should be adopted
11. The design of the building should be in compliance to Energy Building Code as applicable.
12. The half-yearly compliance report should have specific details supported with data and evidence instead of general statements.
13. The disposal of construction and demolition waste shall be dealt with as per rules, if necessary through the accredited agencies.
14. A minimum of 40% energy requirement shall be met with solar energy.

2. SIA/KL/MIN/143575/2020, 1990/EC1/2022/SEIAA

Granite (Building Stone) Quarry of Sri. Muhammed Kutty for an extent of 0.5379 Ha at Sy. No. 247/3 in Pattithara Village, Pattambi Taluk, Palakkad, Kerala

Decision: As invited, the project proponent Sri. Muhammed Kutty and the RQP Dr. Sakkir S.Pillai were present. The RQP made the presentation. The highest elevation is 95m RL and the lowest is 90m RL. The life of mine is 3 years. The Committee heard the presentation and observed that the details of CER activities are not found uploaded. **The Committee noted certain shortcomings and hence decided to direct the proponent to submit the following additional documents:**

- 1) Revised Project cost.
- 2) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, and detailed implementation plan of the proposals.
- 3) Revised EMP incorporating the environmental issues of the site and surrounding areas and site-specific mitigation measures along with an adequate budget.
- 4) Revised Project Cost
- 5) Recent Cluster Certificate as the submitted one is of 2018 and there is a quarry seen in the north-west side within 500m (as per google map).
- 6) Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics

3. SIA/KL/MIN/159489/2020, 2120/EC2/2022/SEIAA

Granite Building Stone Quarry of Sri Sudheesh. A. T for an area of 2.1069 Ha. at Re- Survey Block No. 36, Re. Survey Nos. 354/2, 354/4, 354/5, 356/2pt in Edavaka Village, Mananthavady Taluk, Wayanad, Kerala

Decision: As invited, the authorized person on behalf of the project proponent, Sri. Vipin. P and the RQP Sri. Thambu Cheriyan were present. The RQP made the presentation. The life of mine is 9 years. The nearest house is at a distance of 73m. The Proposed Average Production from this quarry is 63,655.4 Tonnes/Annum. The highest elevation is 761.6m above MSL and the lowest elevation is 733.3m above MSL. The depth to the water table is 702 m AMSL. A church is at around 200m radius. The area proposed for the compensatory afforestation seems to be not suitable. **The committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar for field inspection and report.**

4. SIA/KL/MIN/257315/2022 , 1969/EC2/2022/SEIAA

Environmental Clearance for the Granite (Building Stone) Quarry at Re-Survey Nos: 375/1, 375/2, 375/3 in Puthoor Village & Re-Survey Nos: 381/1, 381/1-2, 381/1-3, 381/8, 381/10 in Kalayapuram Village, Kottarakkara Taluk, Kollam, Kerala

Decision: As invited, the proponent Sri. Ajimon Sulaiman Rawther and the RQP, Sri. V.K. Roy were present. The RQP made the presentation. The targeted production of mine will be 1,10,000 MTA. The estimated project cost will be Rs. 1.95 crore. The expected life of mine is about ten years. The depth to the water table is 18m below ground level as per Form 2 and

4m below ground level as per field inference. During the presentation it is intimated that the unoccupied building within the site was demolished and the proof was presented. The area for compensatory afforestation proposed in the presentation is meager and inadequate. Based on discussions, **the Committee decided to direct the proponent to submit the following additional documents:**

1. The depth to water table measured in the nearest dug well along with geo-tagged photographs of the well, distance from the nearest boundary point of the quarry, and relief of the well site.
2. An unoccupied concrete house is found within the site, which is not permissible. This is not shown in the survey map certified on 1.2.2023. Submit an explanation for the same and a Response from the PP regarding the demolition of the house.
3. The revised EMP submitted is not site-specific. Submit revised EMP integrating site-specific environmental issues and mitigation plan for each issue and also incorporating details of environmental monitoring, cost for environmental monitoring, and cost of CER
4. Details of drainage such as garland canal, silt traps, siltation ponds, overflow channels, and connectivity to natural drain
5. Location and protection plan for OB dump site
6. The compensatory afforestation plan submitted is inadequate with respect to area, the number of trees to be planted, photos without geo-tagging, ownership details etc. Submit a revised and detailed compensatory afforestation plan including geo-coordinates of the proposed site, geo-tagged photographs of the proposed site to show the present status, species details, and ownership details of the proposed land for compensatory afforestation along with proof.
7. Details of the provision for rainwater harvesting, sanitation, and waste management measures, and energy conservation measures
8. Provide certified safe yield and quality of the source of water (open well) proposed for the project.
9. There are four major abandoned water-logged quarries adjacent to the site. Explain the reason for not using that water for quarry instead of an open well which may not have adequate safe yield.
10. The road to the quarry is through four abandoned quarries with very steep walls without any safeguards posing serious accident potential. Response of the PP to avoid the possibility of accidents
11. It is informed that the haulage road to the quarry is not the one passing adjacent to the deep quarry pond, but another one that is yet to be developed. An explanation for not developing a proper haulage road and proposal and proof for developed haulage road.

5. SIA/KL/MIN/269321/2022, 2174/EC3/2022/SEIAA

Environmental Clearance for Granite Building Stone Quarry of Mr. Sajeev. M.A. over an area of 1.8592 Hectare, situated in Survey No. 959/1L, 959/1L2,959/1L-8 of Kothamangalam Village, Kothamangalam Taluk of Ernakulam

Decision: As invited the proponent Sri. Sajeev. M.A and the RQP Sri. Vikram Krishna were present. The RQP made the presentation. The life of mine is 5 years. The highest and lowest elevation is 99m and 67m respectively. The available mineable resource is 7,15,225 MT. Proposed to extract 76% of the total resource. Thattekkad Bird Sanctuary is within 10km and the proponent intimated that he has submitted an application before NBWL. The water demand is 5 KLD sourcing from existing quarry pit and water tanks. The depth to the water table as presented is 5m from 67m above MSL. Based on discussions, the Committee decided to direct the proponent to submit the following documents;

- 1) The depth to water table measured in the nearest dug well along with geo-tagged photographs of the well, distance from the nearest boundary point of the quarry, and relief of the well site.
- 2) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, detailed implementation plan of the proposals and cost of maintenance.
- 3) Revised compensatory afforestation plan incorporating ownership details
- 4) Revised EMP with budget allocation.
- 5) Topsoil storage and management proposal.
- 6) Land use breakup.
- 7) Source of water with its yield characteristics & sustainability.
- 8) Thattekkad Bird Sanctuary is 6km and hence the proof of application submitted for WLC from SBNBWL.

The Committee decided to entrust Dr. K.N. Krishnakumar and Dr. N. Ajithkumar for field inspection and report.

6. SIA/KL/MIN/278377/2022 , 2058/EC1/2022/SEIAA

Granite Building Stone Quarry of Sri. Sabu Kuriakose, Managing Director, M/s Kavumkal Granites for an area of 0.7070 Ha. at Re-Survey No.470/6 in Vadasserikkara Village, Ranni Taluk, Pathanamthitta.

Decision : As invited, the authorized person, Sri.Tom Sabu and the RQP, Sri.Jayachandra Panicker were present. The RQP made the presentation. The Committee noted that the proposed area is in ESA village as per the existing notification and the Proponent submitted the documents required. There is a building at a distance of 74 m. The project cost is 1.10 crore. **Based on discussions, the Committee decided to entrust Smt. Beena Govindan and Dr. Mahesh Mohan for field inspection and report.**

7. SIA/KL/MIN/278782/2022, 1299/EC1/SEIAA/2019

Granite (Building Stone) Quarry of Sri M P Kuriakose for an extent of 1.0855 Ha at Re-Survey Nos. 122/2 & 122/ in Padichira Village, Sulthan Bathery Taluk, Wayanad, Kerala.

Decision: Based on the direction of 144th SEAC, the proponent was invited for presentation vide email and the proponent was absent. Hence **Committee decided to defer the proposal.**

8. SIA/KL/MIN/284986/2022 , 2122/EC1/2022/SEIAA

Granite Building Stone Quarry of Mr. P. P Asharaf at Survey No.305/1A and 305/1B in Thrithala Village, Pattambi Taluk, Palakkad District, Kerala

Decision: As invited, the proponent Sri.P.P.Asharaf and the RQP, Dr. Nazar Ahmmed were present. The RQP made the presentation. The Committee heard the presentation. An abandoned quarry is present in the nearby area. The mineable resource is 270401 MT. Based on the discussion **the Committee decided to direct the proponent to submit the following documents;**

1. Viability of proposed post-mining land use.
2. EMP incorporating the environmental issues of the site and surrounding areas and site-specific mitigation measures along with adequate budget provision.
3. PFR incorporating the details from the DSR
4. Compensatory afforestation plan indicating species & plan.

9. SIA/KL/MIN/406447/2022, 2165/EC3/2022/SEIAA

Granite Building Stone Quarry of M/s. Kadakanad Aggregates Private Limited Granite Sy. Nos: 218/1-2, 219/5-3, 220/2 & 220/2-1 Mazhuvannur Village, Kunnathunad Taluk, Ernakulam District, Kerala State (Additional Document received)

Decision: As invited, the proponent Sri.A.N.Sadasivan Nair, M/s. Kadakanad Aggregates Private Limited and the RQP, Sri.Thambu Cheriyan were present. The RQP made the presentation. The high hazard zone is at a distance of 5 km and the medium hazard zone is at a distance of 20 km away from the project site. The nearest house is 55m from the proposed area. The highest and lowest elevations of the site are 41.8 m and 24 m respectively. The depth to water is recorded as 4 below ground level in the FIR which is corrected as 4m above msl during the presentation. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Development of green belt with indigenous species of trees, shrubs and climbers should be initiated prior to the commencement of mining.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. Garland drain, silt-traps, siltation ponds, and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
5. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.

6. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
9. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
12. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
13. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
14. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
15. Small tippers should be used for the transportation of the material.

10. SIA/KL/MIN/406588/2022, 2159/EC4/2022/SEIAA

Environmental Clearance for Granite Building Stone Quarry (Minor Mineral) Project situated at Re-Survey No.56/70, 56/69, 56/9, 56/15, 56/16, 56/18 of Kumaranellur Village, Kozhikode Taluk, Kozhikode District, Kerala for an area of 1.9827 hectares in favor of Mr. Habeeb Rahman, Managing Partner, M/s Crystal Sands and Metals.

Decision: As invited, the proponent Sri.Habeeb Rahman and the RQP Sri.S.Mahesh were present. The RQP made the presentation. The total mineable reserve is 996696.0MT (83058MTA) and mine life is 12 years. The depth to the water table is reported as 14m below ground level. The High Hazard zone is at 6.7km and the nearest house is at 106m. The Project Cost is 2Cr. **The Committee decided to recommend EC for the mine life of 12 years with the following Specific conditions in addition to the Specific Conditions.**

1. Considering the depth to water table as 14m bgl, the depth of mining should be limited to 35m above MSL.
2. Development of green belt with indigenous species of trees, shrubs and climbers should be initiated prior to the commencement of mining.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak

Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.

5. Garland drain, silt-traps, siltation ponds, and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
9. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

11. SIA/KL/MIN/408193/2022, 2169/EC2/2022/SEIAA

Environment Clearance for the Proposed Granite Building Stone Quarry of Sri. M. Aliyarkutty for an area of 3.3314 Ha at Block No.-26, Re-Survey Nos. 431/13, 431/11- 4pt, 431/5pt, 444pt (Govt. Land), 432/1pt (Govt. Land), 432/2, 432/4pt, 432/8pt, 445/2pt, 445/8pt, 445/15pt, 445/3-2pt & 445/9pt, in Valakom Village of Kottarakkara Taluk, Kollam, Kerala.

Decision : As invited the project proponent Sri. M Aliyarkutty and RQP, Sri. V. K Roy were present. The RQP made the presentation. The Committee observed that the blasting report was submitted without conducting blasting. The project proponent has not submitted the CCR from IRO, MoEFCC, Bangalore, and the project proponent intimated that the same will be submitted at the earliest. The nearest built structure is 32m, i.e., a crusher. As per the Cluster Certificate dated 25.11.2022, there is no cluster situation. There is also a complaint received from Sri. Ratheesh Kumar K & Krishna A R against the quarry operations. **The**

Committee decided to direct the proponent to submit the following clarifications/additional documents

1. Clarification regarding the name of the Proponent as it is given in the application as M. Aliyarkunju and in the attached documents it is M. Aliyarkutty.
2. The proof of stakeholder consultation based on which the CER is prepared is not submitted. The budget provision for the CER also needs review. Considering these, the PP has to submit revised CER.
3. The blasting report submitted seems to have been prepared without conducting blasting. Provide the methodology adopted for assessing the impact of vibration on the surrounding built structures.
4. The Proponent obtained an EC No. B/DEIAA/5015/18 dt. 19.6.2018 for 0.9847 Ha area falling in R.Sy. No. 445/1, 445/1-2, 445/2, 445/8, 445/9 and 445/15. Some of these survey numbers also form part of the current proposal under consideration. The Proponent has to submit Certified Compliance Report from the Integrated Regional Office, MoEF & CC, Bangalore.
5. Vide letter no. SZ/BGR/Kollam/22(3)/2020/46 dated 20.1.2020, the Director General of Mine Safety, Bangalore Region ordered to stop mining in the site (to which EC was issued by the DEIAA) due to violations under contraventions observed under the Metalliferous Mines Regulation, 1961. No details are furnished regarding the vacation of the order. The Proponent has to provide clarifications.
6. Vide Proceedings of the District Collector, Kollam dated 14.7.2022, consequent to the Order of the Hon. High Court of Kerala dated 30.3.2022 in WP (C) 2050/22, it is recommended that while considering the application for EC, the SEIAA may consider the complaints of the Complainants. Therefore, the Committee decided to request the SEIAA to hear the Complainants Mr. Ratheesh kumar and Smt. Krishna A.R.
7. In the cluster certificate dated 25.11.2022, submitted by the Proponent, there is no quarry reported within the cluster. However, the Committee observed two quarries (Travancore Granites and another one), under the consideration of the SEIAA for environmental clearance. The Proponent has to ascertain this and submit clarification.
8. Valid NOC, if the validity of the present NOC is expired.

- 12. SIA/KL/MIN/411075/2022, 2241/EC1/2023/SEIAA
Granite Building Stone Quarry of Sri. Unneenkutty in Re.Survey Block No. 36 Re.Survey no. 347 Kulukkallur Village, Pattambi Taluk, Palakkad District**

Decision: Based on the direction of 144th SEAC, the proponent was invited for a presentation. The project proponent intimated via e-mail that he will be absent. **Hence Committee decided to defer the proposal.**

- 13. SIA/KL/MIN/411438/2022, 2189/EC1/2023/SEIAA
Granite Building Stone Quarry of Sri. K Anil Kumar for an area of 1.2210 Ha at Block No. 32, Re-Survey Nos: 188/1pt (government land), 188/3 (private land) in Koodal Village, Konni Taluk, Pathanamthitta, Kerala**

Decision: As invited the proponent, Sri K Anil Kumar and the RQP, Sri V K Roy were present. The RQP made the presentation. The life of mine is 5 years. The mineable reserve is 336767 MT and the average production is 67250 MT. The project cost is 1.20 crore. During field verification, the Committee observed that the traffic is high as there are many quarries in the nearby areas. Planting in buffer region is not possible in all areas due to exposed hard rock. **The Committee decided to direct the project proponent to submit the following documents;**

1. Drainage map showing connection to natural drain with silt traps and siltation ponds and
2. Plan for road development
3. Traffic related issues, mitigation measures and transportation management plan based on traffic study
4. Details of provisions for rain water harvesting
5. Details of energy conservation measures
6. A detailed plan for compensatory afforestation consisting of the geo-coordinates of the demarcated area for compensatory afforestation, geo-tagged photographs of the location, ownership details and number, type and species of trees, shrubs, herbs, and climbers included in the afforestation program.
7. Details of topsoil and management of top soil and overburden
8. Details of source of water, safe yield of the source, and sustainability characteristics of the source.

14. SIA/KL/MIN/411554/2022, 2224/EC4/SEIAA/2023

Environmental Clearance for Granite (Building Stone) Quarry of Sri. Shamsudheen for an area of 4.5622 Ha at Survey No 1 in Udayagiri village, Taliparamba Taluk, Kannur, Kerala

Decision: As invited, the project proponent Sri. Shamsudheen and the RQP Dr. Sakkir S Pillai were present. The RQP made the presentation. The project cost is 43 lakh. The cluster certificate indicates the proposed area falls in a cluster condition with a quarry of area 4.9005 ha which is granted EC and presently not working. However, the project proponent stated that the quarry is closed and he will submit a revised cluster certificate accordingly. The Committee also examined the project details and also the details presented during the presentation. It is observed that the project area is engulfed in high-hazard zone at a distance of around 13m. The area is characterized by very steep slope with the project area having an elevation difference of 570m to 670m above MSL on the steep slope of a hill with maximum elevation of about 725m above MSL (as per google imagery). The Committee also observed the following shortcomings.

- 1) The project cost is not realistic and need revision.
- 2) The test results of environmental quality parameters uploaded are not legible. The test results attached with the approved mine plan is of 2017. Therefore, latest test results are necessary
- 3) The mineable reserve given in the approved mine plan is 11, 40, 737 MT and production plan is 2,28,147 TPA for 5 years. The mining plan also indicates that

recoverable reserve of about 19 lakh ton with life of mine as 10 years. Therefore, clarification is required on this contradictory statement in the approved Mine Plan.

- 4) Only part of the approved mining plan is uploaded. The drawings and documents attached to the mine plan are not found uploaded.
- 5) The depth of mining given in the application is 42m, the feasibility of which is not justified.
- 6) The production plan given in the approved mine plan indicates that the magnitude and intensity of activities proposed will be very high and therefore, the feasibility of such activities in the highly vulnerable location is not found justified.
- 7) The water requirement, source of water and source characteristics are not given in the application.
- 8) Revised EMP incorporating the environmental issues of the site and surrounding areas and site-specific mitigation measures along with an adequate budget.
- 9) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, and detailed implementation plan of the proposals.
- 10) Hazard zonation map is not found uploaded.
- 11) Depth to water table in the nearest dug well along with the ground relief of the well is not found uploaded.

The Committee observed that many details required for appraisal of the project are not found uploaded. There is a cluster situation. Based on discussions, the Committee decided to direct the Proponent to submit application for approval of ToR for conducting EIA study for the Project.

15. SIA/KL/MIN/414973/2023, 2237/EC3/2023/SEIAA

Granite Building Stone Quarry of Sri. Dileep Kumar, at Survey Nos. 372/1A/3/8/8, 372/1A/4/9/11 in Kottappady Village, Kothamangalam Taluk, Ernakulam, Kerala

Decision: As invited the proponent, Sri. Dileep kumar and the RQP Sri. Balaraman were present. The RQP made the presentation. The mineable reserve is 270885 MT. The life of mine is 3 years. The nearest building is at 52.5 m. The Thatekkad Wild Life Sanctuary is at 6.04 km. The project cost is 1 crore. The distance to the medium hazard zone is 6.03 km and to the high hazard zone is 6.49 km. The proponent submitted application for Wild Life Clearance. **The Committee decided to direct the proponent to submit the following additional documents;**

- 1) Revised EMP incorporating site-specific environmental issues and their mitigation plan along with adequate budget provision
- 2) Legible Survey map showing all the built structures including crusher, if any, within 200m radius of the proposed area
- 3) Depth to the water table in the nearest dug well with geotagged photographs and ground relief at the well location

- 4) The compensatory afforestation plan submitted is inadequate with respect to area, number of trees to be planted, photos without geo-tagging, ownership details etc. Submit a revised and detailed compensatory afforestation plan including geo-coordinates of the proposed site, geo-tagged photographs of the proposed site to show the present status, species details, and ownership details of the proposed land for compensatory afforestation along with proof.
- 5) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, and detailed implementation plan of the proposals.
- 6) Proof of application submitted for wild life clearance from the NBWL

16. SIA/KL/MIN/416432/2023, 2232/EC6/2023/SEIAA

Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Noufal M.P for an area of 0.5663 Ha at Sy.No. 66/2-30 in Pulamanthole Village, Perinthalmanna Taluk, Malappuram

Decision : As invited, the proponent Sri. Abdul Noufal M.P and the RQP, Sri. V.K. Roy were present. The RQP made the presentation. The life of mine is 5 years. The depth to water table is 60m above MSL. The ultimate pit is 70 m above MSL. **The Committee decided to direct the proponent to resubmit the application with the following details and additional documents;**

- 1) The Proponent has not uploaded the application with adequate details under section 3 (Physical changes), section 4 (Pollution details), section 9 (waste generation), section 10 (Risk assessment) etc.
- 2) Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
- 3) The compensatory afforestation plan submitted is inadequate with respect to area, number of trees to be planted, photos without geo-tagging, ownership details etc. Submit a revised and detailed compensatory afforestation plan including geo-coordinates of the proposed site, geo-tagged photographs of the proposed site to show the present status, species details, and ownership details of the proposed land for compensatory afforestation along with proof.

17. SIA/KL/MIN/416864/2023, 2252/EC6/2023/SEIAA

Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ummer for an area of 0.9766 Ha at Block No.79, Survey No.434/2-6, at Wandoor Village, Nilambur Taluk, Malappuram

Decision: As invited, the proponent Sri. Ummer and the RQP Sri. S Mahesh were present. The RQP made the presentation. The mineable reserve is 2,89,345 MT. The life of mine is 5 years. The water requirement is 2.5 KLD. The ultimate depth of mine is 35 msl. The proposed CER cost is 22.6 lakh. **The Committee decided to direct the proponent to submit the following documents;**

- 1) Depth to the water table in the nearest dug well along with geo-tagged photographs and ground relief at the well location.
- 2) Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
- 3) Current land use details as it is not detailed in the application
- 4) Yield & sustainability characteristics of the source of water
- 5) Revised site-specific EMP with mitigation measures and adequate budget provision
- 6) Geotagged photographs for the site proposed for the compensatory afforestation plan with proof regarding the ownership of the area and a consent letter if the area belongs to any other persons other than the project proponent.

**18. SIA/KL/MIN/417759/2023, 2234/EC3/2023/SEIAA
Environmental Clearance for Building Stone Minor Mineral Mining (Quarry) project, M/s SSC Project, for an area of 0.9981 ha at Block No. 41, Re-Sy Nos. 235/5, 239/3-1, Kooroppada Village, Kottayam Taluk, Kottayam.**

Decision: As invited, the proponent Sri. Shibu Mathew and Consultant Sri. P Z Thomas was present. The Consultant made the presentation. As per the mining plan the mineable reserve is 1,56,513 MT. The mine life is 3 years. The project cost is Rs. 3.83 Crores. The highest and lowest elevations are 100 m AMSL to 82 m AMSL respectively. The ultimate depth is 70m. The depth to the water table is 65 m above MSL. The project proponent proposes to use trucks of 6 tonne capacity for material transportation as the approach road to the project is narrow to the tune of 4m only for about 100m. A perennial stream is located at 60m from the proposed area. **The Committee decided to get the following additional documents from the project proponent;**

1. Modified EMP with adequate budget provision for mitigation measures and environmental monitoring
2. CER Proposal as per norms
3. Compensatory afforestation plan with a detailed list of plants and geotagged photographs and ownership details of the proposed site. The list of species (especially trees and butterfly's larval host plants, nectar plants, alkaloid plants etc.) given under the "recommended species for ecorestoration program" in the biodiversity assessment report shall be used for the compensatory afforestation program.
4. Plan for protection of endemic fauna (like the butterfly "Southern Birdwing (*Triodes minos* Cramer)") and flora reported in the biodiversity report. Also consider developing muddy spot for mudpuddling butterflies
5. Topsoil dump and utilization plan
6. Protection measures for the soil column at the elevated area of the site
7. Detailed drainage plan with details of silt traps, siltation ponds, connectivity to natural drain
8. Measures for protection of the nearby first-order stream

9. The details of material transportation considering the traffic density and narrow width of the road connecting the proposed site.
10. Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics

19. SIA/KL/MIN/420061/2023, 2285/EC4/2023/SEIAA

Environmental Clearance for the Proposed Granite Building stone quarry of Sri. Sasidharan E.M, for an area of 0.8533 Ha at Re Survey Nos.106/1, 106/4 in Kayakkodi village , Vatakara Taluk, Kozhikode, Kerala

Decision: As invited, the authorized person Sri. Nazeer and the RQP S.Mahesh were present. The RQP made the presentation. The targeted production is 39,900 MTA. The location is not in any landslide hazard zones. The nearest house is at 53m. **The Committee decided to direct the proponent to submit the following additional documents.**

- 1) Revised site-specific EMP with adequate budgetary provision
- 2) Depth to water table in the nearest dug well to the project site with geotagged photographs of the well and ground relief of the well.
- 3) The compensatory afforestation plan submitted is inadequate with respect to area, number of trees to be planted, photos without geo-tagging, ownership details etc. Submit a revised and detailed compensatory afforestation plan including geo-coordinates of the proposed site, geo-tagged photographs of the proposed site to show the present status, species details and ownership details of the proposed land for compensatory afforestation along with proof.
- 4) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, and detailed implementation plan of the proposals.
- 5) Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics

20. SIA/KL/MIN/422678/2023 , 1675/EC2/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry of Sri. A M Chackochan, M/s Aishwarya Granites for an extent of 0.6803 Ha at Re-Sy. No. 121/2 part of Elamadu Village, Kottarakkara Taluk, Kollam., Kerala

Decision: As invited, the proponent Sri. A M Chackochan and the RQP Sri V K Roy were present. The RQP made the presentation. The proposal for this site was earlier rejected as a crusher was located adjacent to the proposed site as well as there were buildings within 50m. The Proponent submitted a new application on 3.5.2023 stating that the crusher is now demolished and submitted three photographs which are not geo-tagged. The Proponent also submitted that the NOC for the Govt. land is valid up to March 2024. While scrutinizing the application, it is observed that the uploaded KML file shows the presence of crusher, the survey map submitted shows that the crusher is adjacent to the site, the test results of the

environmental quality parameters are of the year 2019 and the photographs submitted as proof for demolition of the crusher is not geo-tagged. It is inferred that the Proponent submitted fresh application with along with documents prepared in 2019. Therefore, **the Committee decided to direct the Proponent to submit the following additional documents.**

1. Location of the site depicted in recent satellite imagery
2. Revised survey map indicating distance to all the built structures within 200m
3. Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
4. Depth to water table in the nerest dug well along with geotagged photograph of the well and ground relief of the site.
5. Revised CER based on stakeholder consultation afresh
6. Test results of the environmental quality parameters as the one submitted is of 16.9.2019

**21. SIA/KL/MIN/423070/2023, 2254/EC6/2023/SEIAA
Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Kareem, M/S. U. K. Granites for an area of 0.5009 Ha at Block No.03, Re-Survey Nos.29/39, 29/37, 29/41, 29/40, 29/38, 29/47 in Edayur Village, Tirur Taluk, Malappuram**

Decision: As invited, the proponent, Sri.Abdul Kareem, M/s. U. K. Granites and the RQP Dr. Nazar Ahammed were present. The RQP made the presentation. The depth to water table is 8m from 57 m AMSL. The proposed CER activity ie. incinerator for solid waste management in Government L.P School is not a permissible activity. **The Committee decided to direct the proponent to submit the following additional documents.**

- 1) Compensatory afforestation plan including the geo-coordinates, geotagged photographs, and ownership details of the site proposed
- 2) Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation, and detailed implementation plan of the proposals.
- 3) Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
- 4) Depth to water table in the nearest dug well along with geotagged photograph of the well and ground relief of the site.

**22. SIA/KL/MIN/423325/2023, 2281/EC3/2023/SEIAA
Environmental Application for the Building Stone Quarry project of Mr. Joseph Ulahannan Alias Joy Ulahannan for an area of 0.9204 ha. in Sy. No. 109/2-1 of Lalam Village, Meenachil Taluk of Kottayam, Kerala.**

Decision: As invited, the proponent Sri. Joseph Ulahannan Alias Joy Ulahannan, EIA Consultant, Smt. Ananthitha of Ultratech and the RQP Sri.V.K.Roy were present. The project does not fall in any landslide hazard zone. The nearest house is at 110.8 m. The water level is 3.2m bgl. The life of mine is 3 years. **The Committee decided to direct the proponent to submit the following additional documents;**

1. The land use split up of the area
2. EMP with budgetary provision
3. Recent cluster certificate
4. Detailed drainage map
5. Source of water for the project and its yield and sustainability characteristics
6. Depth to water table in the nearest dugwell alongwith geo-tagged photograph of the well and its ground relief
7. Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
8. Depth to water table in the nearest dug well along with geotagged photograph of the well and ground relief of the site.
9. Revised CER as per norms
10. Slope characteristics of the site and digital elevation model (DEM) of the proposed area and surroundings

23. SIA/KL/MIN/425832/2023, 2270/EC3/2023/SEIAA

Environmental Clearance for the Building Stone Quarry at Block No: 10, Re. Survey No.509/11, 509/11-2, 509/12 of Vengoor West Village, Kunnathunad Taluk, Ernakulam.

Decision: As invited, the proponent Sri. Johnson and the RQP, Sri. C. Balaraman were present. The RQP made the presentation. The project area is 3.25 km from the high hazard zone. There is an adjacent quarry having EC, which worked up to 2020. The project area is 0.7540 Ha, the mineable reserve is 2,18,500 MT and the life of mine is 2 years. **The Committee decided to direct the proponent to submit the following documents;**

1. Detailed CER proposal as envisaged as per the OM dated 30.09.2020 of MoEF & CC based on stakeholder consultation, proof of stakeholder consultation with adequate budgetary provision.
2. Site-specific EMP with mitigation measures incorporating appropriate budget provision
3. Clarification regarding the discharge of outflow from the quarry area to the irrigation canal.
4. Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
5. Clarification on Compensatory Afforestation Plan with geotagged photographs of the area, consent of the land owner, if the land not belongs to the PP and ownership details of the land.
6. NOC from the irrigation department

24. **SIA/KL/MIN/426206/2023 , 2261/EC1/2023/SEIAA
Building Stone Minor Mineral Mining (Quarry) project of M/s VSC
Villaments at Block No.47, Re-Survey 319/7, 318/13, 322/5, 320/1-1, 320/4-
2, 320/1-3, 320/1-4, 320/1-6 of Aryanad Village, Nedumangad Taluk,
Thiruvananthapuram District, Kerala for an area of 2.700 hectares.**

Decision: As invited, the proponent Sri. Srijith and the Consultant Sri. P Z Thomas was present. The Consultant made the presentation. The nearest house is at 61 m. The Peppara Wild Life Sanctuary is at 4.75 km and Neyyar Wild Life Sanctuary is at 3.75 km from the project area. A water tank of irrigation department is at 103 m, which is yet to be commissioned as reported. There are plenty of loose boulders scattered in the mine lease, core & buffer area. A first-order stream is at 180 m from the periphery. The elevation difference is 125m and 95 m above MSL. The water level is 75 m MSL as reported. **The Committee decided to entrust Er. M. Dileep kumar and Dr. A. Bijukumar for field inspection and report.**

25. **SIA/KL/MIN/428344/2023, 2275/EC1/2023/SEIAA
Granite Building Stone Quarry of Sri. Unnikrishnan K for an area of 0.4420
Ha at Block No: 26 Re.SurveyNo.207/8 in Keezharoor Village, Kattakada
Taluk, Thiruvananthapuram Kerala**

Decision : As invited, the proponent Sri. Unnikrishnan.K and RQP Sri. C. Balaraman were present. The RQP made the presentation. The applied area is government land with NOC. The total mineable reserve is 1,17,803 MT and the life of mine is 4 years. The Neyyar Wild Life Sanctuary is at 8.6 km. The project cost is 60 lakh. The nearest building is 56.7 m. The high hazard zone is at 10.7 km and the medium hazard zone is at 10.6 km. The highest elevation is 137 Amsl and the lowest elevation is 108 amsl. **The Committee directed the proponent to submit the following additional documents;**

1. The proposed area is small and therefore, clarification on the feasibility of mining in such a small area.
2. Clarification whether the temple shown in the google imagery is within the site or not. Also reason for its absence in the survey map submitted.
3. There is a road crossing the project area, the impact of which needs to be submitted.
4. Distance to nearby building is taken from the boundary pillars, not from the boundary. Therefore, revised survey map showing distance to to all the built structures within 200m radius of the site
5. Proof for application for Wild Life Clearance submitted to the SCNBWL
6. Geo-tagged photographs of the site from each of the boundary pillars and from different locations within the site along with video clip of the site to assess the site characteristics
7. Compensatory Afforestation Plan with geotagged photographs of the area, details of species of trees, shrubs and climbers proposed to be planted, ownership details of the land, consent of the land owner, if it is not owned by the PP

8. Depth to water table in the nearest dug well along with geotagged photograph of the well and ground relief of the site.
9. Revised CER with monitorable physical targets as per O M dated 30.09.2020.
10. Site-specific EMP with mitigation measures incorporating appropriate budget provision

**26. SIA/KL/MIN/428391/2023, 2283/EC4/2023/SEIAA
Environmental Clearance for Granite Building Stone Quarry of Sri. R. Mohandas with area of 3.7390 Ha in Re-Survey Nos. 1293/1623, 1293/1621, 1293/1622, 1293/2870, 1293/2872, 1293/2793, 1293/2794 & 1293/1624 at Ayyankunnu Village, Iritty Taluk, Kannur, Kerala**

Decision: As invited, the proponent Sri.R.Mohandas and the RQP Sri.V.K.Roy were present. The RQP made the presentation. As per the application, mineable reserve is 10,54,720 MT and mine life is 10 years. The project cost is 1,77,00,000/-. The highest elevation is 565m and the lowest elevation is 518 m respectively. One portion of the area is in a moderate hazard zone and the high hazard zone is at 7m from the project boundary. The project is at 2 km distance from the Brahmagiri Wildlife Sanctuary. The Committee observed the following shortcomings in the application submitted.

1. Proof of application submitted for Wild Life Clearance from NBWL.
2. Certificate from the Village Officer regarding the hazard occurrences in and around the site in Ayyankunnu occurred after 2017
3. The CER proposal need revision by incorporating monitorable physical targets as per OM dated 30.09.2020, proof of stakeholder consultation etc.
4. Site-specific EMP with mitigation measures incorporating appropriate budget provision

Based on discussions, the Committee decided to entrust Prof. V. Gopinathan and Dr. A.N. Manoharan for field inspection and report

**27. SIA/KL/MIN/72018/2019, File No: 1470/EC3/2019/SEIAA
Environmental Clearance for the Granite Building Stone Quarry mining project of Sri. P.V Santhosh, for an area of 4.7668 Ha., at Survey. Nos. 279/2, 279/3-1, 279/3-2, 278//1-1, 278/1-3, 278/1-2, 284/2-2, 284/2-3, 284/2-4, 284/2-1 in Mazhuvannoor Village, Block No. 29, Kunnathunad Taluk, Ernakulam (ToR Approved proposal)**

Decision: As invited the Proponent Sri. P.V Santhosh and Sri. Damodaran, EIA Co-ordinator, Eco-tech Lab were present. As per the presentation, the Committee noted that the mineable reserve is 28,36,420 MT. The depth to groundwater level is 45-47 m above MSL. The highest and lowest elevation are 84 m and 160m respectively. The project cost is 6.2123 crores. The proponent intimated that the depth of mining is limited to 50 m AMSL. In the Mining Plan the life of mine is 12 years but the proponent intimated to limit it to 4 years without change in production plan as they propose to limit the depth of mine considering the depth to water table. The Committee also observed the following shortcomings;

1. Non-assignment certificate
2. Revised site-specific EMP with adequate budgetary provision and specific CER activities based on stakeholder consultation.
3. A legible survey map with distance marked to residential buildings and built structures within 200m.
4. A compensatory afforestation plan with geo-coordinates and geo-tagged photographs of the location along with ownership details/consent.
5. Many of the ToR have not been addressed adequately in the EIA Report. Therefore, rework the EIA report in tune with the ToR approved.

The Committee decided to entrust Dr. K N Krishnakumar and Dr. N Ajithkumar for field inspection and report.

28. SIA/KL/MIS/119987/2019 , 1468/EC3/2019/SEIAA

Application for Environmental Clearance for the hospital complex of Sri. O.M. Abdul Rasheed, Chairman and Managing Director, Samana Health Care Services LLP at Re- Survey Nos . 52/6-2-1, 52/6-2-2, 50/41, 50/25, 51/24, 51/22, 51/25, 52/6-1 in Manjeri village, Ernad Taluk, Malappuram

Decision: As invited, the authorized person, Sri. E C Muhammed, General manager, Sri. Salim P, Project Engineer and Smt. Ananthitha, Consultant, Ultratech were present. The Consultant made the presentation. **The Committee directed the proponent to submit the following additional documents.**

- 1) Form1, Form IA, Covering Letter and Conceptual Plan which are not found uploaded.
- 2) Detailed CER proposal as envisaged as per the OM dated 30.09.2020 of MoEF & CC based on stakeholder consultation, proof of stakeholder consultation with adequate budgetary provision.
- 3) Revised Environmental Management Plan

29. SIA/KL/MIS/289728/2022, 2269/EC3/2023/SEIAA

Environmental Clearance for the apartment Project by Nest Realities Pvt. Limited, submitted by Sri. Rahul K R., Finance Manager, located in Sy No. 323/7, 0.7355 Ha. of land parcel in Keezhmad Village, Aluva Taluk of Ernakulam.

Decision: Based on the direction of 145th SEAC, the proponent was invited for presentation via email and the proponent was absent. **Hence Committee decided to defer the proposal.**

30. SIA/KL/MIN/273506/2022, 310/SEIAA/KL/1693/2014

Application for EC for Marath enterprises and Crusher Pvt. Ltd at Survey Nos. 197/2(p), 198/8(p), 198/9(p) 198/2(p), 198/10(p) & 205/2(p) Koppam Village, Pattambi Taluk, Palakkad, Kerala - Judgment dated 26.08.2021 in WP (C) No.14476/2021 , judgment dated 22.08.2022 in WP(C) No.25902 of 2022 & judgment dated 14.06.2023 & 20.07.2023 in WP(C)No.10021 of 2023

Decision: The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The Committee also noted the directions of the Hon'ble Court in various WP(C)s. The Total minable reserve is 2,47,765 MT. The elevation difference is 90m- and 120m AMSL. A crusher unit owned by the Proponent is working at a distance of 30 m from the site. As per the Certificate issued by District Geologist, the total area in the cluster is 4.0221 Hectares and hence there is no cluster situation. Based on discussions, **the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions:**

1. A minimum distance of 50m buffer should be kept between the crusher unit and the boundary of the proposed mine.
2. The haulage road should be developed prior to the commencement of mining and it should be maintained well with frequent sprinkling.
3. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
4. The EC shall be valid from the date of execution of the permit/lease from the
5. Compensatory afforestation should be initiated prior to the commencement of mining and the coordinates and geo-tagged photographs of the site should be incorporated in the HYCR.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the compliance report.
8. Gabion wall of appropriate dimension should be provided for the protection of overburden dump.
9. There will be five working quarries within 500 m radius of this quarry. Therefore, schedule of blast should be prepared and adhered to in consultation with other quarries so that blast from more than one quarry will take place at a particular time. Similarly, schedule of transportation of materials should also be planned among the adjacent quarries so as to avoid simultaneous blasting and traffic congestion. Copy of the schedule of blasting and transportation arrived in consultation should be made available to SEIAA, District Officer, Mining & Geology, local police station and Grama Panchayat.
10. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office

14. The Environment Management Cell (EMC) should include an Environment expert the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.
15. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.
16. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER), the Project Proponent should implement the CER during the first two years and carry out its operation and maintenance till the mine closure plan is implemented as part of EMP as appraised by SEAC. The follow-up action on implementation of CER/EMP should be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP/CER should be made available to the concerned Panchayat for information and implementation support.
17. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for the growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

**CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL
CLEARANCE(Extension/Amendment/Corrigendum)**

01. **SIA/KL/MIN/296717/2023, 1957/EC6/2022/SEIAA
Application for Extension of Environmental Clearance for the Granite Building
Stone Quarry Project of KNRC Holdings And Investments Private Limited for
an area of 4.8582 Ha at Sy. Nos. 321 pt, 322/2 pt in Ooragam Village,
Tirurangadi Taluk, Malappuram**

Decision: As invited the authorized person Sri. Rajendra Reddy and the RQP, Sri. Milind Kundan, EIA Co-ordinator, Enviro Resource, Mumbai were present. The RQP made the presentation. CCR was obtained on 23.03.2023. A part of the area is in medium hazard zone. **The Committee noticed that the EC was issued by DEIAA, Malappuram and as per the OM dated 28.04.2023, the project proponent has to apply for fresh EC through Parivesh portal. Since there is a cluster condition, the Committee directed the proponent to apply for ToR.**

PART – 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/267357/2022, 2034/EC3/2022/SEIAA

Environment Clearance for mining of M/s Perumannoor Granites Private Limited over an extent of 3.5238 Ha. at Sy Nos. 611/1A/19W/17, 611/1A/19W/19, 611/1A/83/13/16, 611/1A/84/14/23 & 611/1A/196/73/2. Keerampara Village, Kothamangalam Taluk, Ernakulam, Kerala

Decision : The Committee noted the clarification received from the Mining & Geology Department dated 04.04.2023 regarding the Cluster condition of the area and observed that it is not enough to get a conclusive decision that whether the cluster condition is there or not. Hence **the Committee decided to direct the project proponent to submit the following documents;**

- 1) A clear-cut clarification regarding the cluster condition specifying the area of each quarry, the period/validity of permit/lease, status of working or closure and whether mine closure plan is implemented or not.
- 2) Proof of application for Wild Life Clearance submitted to SBNBWL.

2. SIA/KL/MIN/407128/2022, 2154/EC3/2022/SEIAA

Environmental Clearance for the Building Stone Quarry project of Nissamudeen K. S for an area of 3.1424 Ha at Thirumarady Village, Muvattupuzha Taluk, Ernakulam, Kerala.

Decision : The Committee verified the documents submitted by the proponent and found that the IRO, MoEFCC, Bangalore has issued CCR. **The Committee decided to entrust Dr. K.N. Krishnakumar and Dr. N. Ajithkumar for field inspection and report.**

3. SIA/KL/MIN/436541/2023, 1889/EC6/2021/SEIAA

**Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Asees Kadakkadan for an area of 0.5827 Ha at Sy.No. 458/2, 3 in Ponmala Village, Tirur Taluk, Malappuram, Kerala.
(Old Proposal No.SIA/KL/MIN/194573/2021)**

Decision: The Committee observed that the SEIAA in its 127th meeting observed that in a similar case, where a built structure is within 50m distance, the Hon. High Court in its

Judgment dated 12.08.2022 in WP (C) No. 26010/2022 directed SEIAA to reconsider the decision of SEIAA and SEIAA has acted accordingly. The project proponent submitted the consent of the owner of the built structure. Hence the Authority in its 127th meeting decided to issue EC for the project. **The Committee decided to recommend EC as decided by SEIAA in its 127th meeting with the following additional specific condition in addition to the specific conditions stipulated by SEIAA:**

- 1) A buffer distance of 50m should be kept between the project area and the built structure.

4. SIA/KL/MIN/46597/2019, 1575/EC3/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Muhammed Ibrahim Palakkan, M/s Rox Silicon Private Limited for an area of 4.5090 Ha at Sy. Nos. 1065 & 1065 pt in Melmuri Village, Malappuram Municipality, Ernad Taluk, Malappuram

Decision : The Committee discussed the field inspection report conducted on 02.06.2023. A part of the quarry is in medium hazard zone. During field visit the Sub-committee specifically observed that:

- a) On the Eastern side of the project site, from BP2 to BP5, the adjacent land is at a depth of 6 to 10m due to quarrying activity and it is desirable to provide a protection wall
- b) BP8 to BP14 are in medium hazard zone and the slope is comparatively steep. It is desirable to leave this area beyond a line connecting BP8-BP10-BP14 as additional buffer considering the land fragility.

The Committee directed the proponent to submit the following documents:

1. Additional mitigation plan to reduce severe dust problem and fear of accidents, especially to children and elderly population and also jerking and nuisance, structural problems to buildings, traffic congestions due to narrow road and disturbance to fauna, etc.due to the functioning of too many quarries in the area.
2. Details, results and definite recommendations of the specific studies proposed in the ToR (i) Carrying capacity of the cluster, (ii) Transportation and related aspects and (iii) Geo-hydrological study along with replenishment and recharge issues.
3. Meticulously revised EIA report as per the approved ToR incorporating all missing/relevant data, tables, annexures, eliminating faulty and ambiguous data and statements, and other information.
4. Factual compliance report to all the ToR conditions with substantiative statements and page numbers
5. Certified recent survey map incorporating all the built structures within 200m radius of the proposed site
6. Revised Project cost

7. Revised CER with monitorable physical targets as per norms based on a detailed assessment of the socio-economic environment and stakeholder consultation
8. Revised site-specific and impact-based EMP along with appropriate budgetary provisions
9. Revised estimation of water requirement, water balance statement, proposed sources and their yield characteristics and sustainability
10. Source of water with consent letters, if not owned by the Proponent
11. Depth to the water table in the nearest dug wells along with geo-tagged photographs of the wells and ground relief.
12. Geo-tagged location map of OB dump site and detailed plan for their protection
13. Geo-tagged location map of Compensatory Afforestation site along with site photographs, details of species proposed and ownership details of the proposed land
14. Response to the desirability of providing a protection wall on the Eastern side of the project site, from BP2 to BP5 as the adjacent land is at a depth of 6 to 10m due to quarrying activity
15. Response to the desirability of providing an additional buffer beyond a line connecting BP8-BP10-BP14 as the area between BP8 to BP14 is in medium hazard zone where the slope is comparatively steep and the land is fragile.
16. Plan for rainwater harvesting
17. Plan for energy conservation measures
18. Plan for sanitation and waste management

5. SIA/KL/MIN/50013/2019; 1318/EC2/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Haridasan for an area of 7.7085 Ha in Sy.Nos. 488, Vettathur Village, Perinthalmanna Taluk, Malappuram District

Decision: The Committee discussed the field inspection report conducted on 02.06.23. During the field visit the Sub-committee specifically observed that the slope is more than 36° at several locations, the top soil thickness is $>2\text{m}$ at several exposed areas and there was landslide occurrences in adjoining forest areas during 2018, which is hardly at a distance of 100m from the project area. There are also certain contradictions in the details given in Form-2, Mining plan and EIA report. It is also observed that the project site is diverse in terms of flora and fauna, as per biodiversity assessment report. As per the report, the proposed location is a mid-elevation steep hill and dominated by moist deciduous type of habitat. The elevation and vegetation type of the landscape supports a wide variety of flora and fauna. Significantly high number of birds was observed during the survey period, which includes many habitat specialists and migrants. The presence of standing natural forest cover and thick understory vegetation makes the land more diverse in terms of wildlife habitat. The presence of seasonal flows and water flowing channels represents the water current system during the monsoon. The evaluation of the project details, mine plan, EIA report, slope stability study report, hearing note etc. ascertained that there is no reason to reverse the decision taken in the 132nd meeting the SEAC to recommend rejection of the

proposal. and the reasons for the decisions are correct. The Committee also noted and discussed the following critical aspects:

1. The slope of the site is around 36° with higher slopes at patches which is found very critical from the point of land stability as the soil thickness is significant.
2. The local structural geological aspects, especially joint type, sets of joints, joint plain etc. can accentuate the impacts of blasting and possibly trigger land instability.
3. The soil thickness is high which along with the very steep slope, high rainfall and structural deformations of rocks critically enhances the land vulnerability to landslips and landslides.
4. The forest land surrounding the site is dominated by moist deciduous type of habitat. The elevation and vegetation type of the landscape supports a wide variety of flora and fauna. The site is in continuation of this biological system and hence is rich in biodiversity.
5. The area adjacent to the site has previous records of landslide incidences as reported by the DFO.
6. The land fragility of the area is very high and the land stability study conducted does not disprove it.

Based on the above facts, the Committee is of the opinion that the area including the proposed site requires to be under very high precautionary measures and should not be subjected to intrusive human intervention such as mining. Therefore, the Committee decided not to recommend the reversal of the decision taken in the 132nd meeting of the SEAC.

6. SIA/KL/MIN/75334/2020, 1820/EC6/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry project of Sri. Kunhi Muhammed for an area of 0.8939 Ha at Sy.No.1065 in Melmuri Village, Ernad Taluk, Malappuram

Decision: The Committee discussed the field inspection report conducted on 02.06.23. The site is adjacent to the quarry of M/s. Rox Silicon Pvt Ltd. (SIA/KL/MIN/46597/2019, 1575/EC3/2019/SEIAA), considered as Item 4 above. During the field visit the Committee observed that the proposed area of the quarry covers an old abandoned quarry. There are two quarries, functioning on the south-eastern side of this project site at a distance of 190m. The Public hearing was attended by 81 people physically and 41 people on online mode. Out of the 17 people spoke, five commented that the operation of the quarry will address the material shortage and social requirements. 12 people spoke against the quarry and expressed their concerns mainly, severe dust problem and fear of accidents, especially to children and elderly population and also jerking and nuisance, structural problems to buildings, traffic congestions due to narrow road and disturbance to fauna, etc. due to the functioning of too many quarries in the area. lack of consultation with the local population during the study etc. Based on discussion, **the Committee decided to direct the proponent to submit the following additional documents.**

1. Revised EIA report incorporating the shortcomings and the additional documents sought below
 - Environmental characteristics of the residual hill on which the project site is located.
 - Impact zone map incorporating sampling points.
 - Measurement units for all the inferred results.
 - Sources of secondary data.
 - Water requirement (given as 2 KLD) based on estimation of the demand for dust control, nurturing plants, and drinking water & sanitation.
 - Sustainable yield characteristics of the open well from where water is proposed to be drawn.
 - Source and its sustainable yield characteristics from where tanker supply is proposed to be sourced.
 - Actual depth to water table in the nearest dug wells along with geo-tagged photographs of the wells and the ground relief there. The depth to water table given in the application & EIA report are different.
 - Site-specific land fragility analysis as the site is very close to a Moderate Hazard Zone and is located on the side slope of a residual hill of elevation up to 347m.
 - Details of quarries and crushers operational in the upstream and downstream portion of the proposed site as no such details are provided.
 - Comprehensive impact of the operation of various quarries and crushers and resultant transportation.
 - Detailed traffic survey, transportation details and traffic plan proposed.
 - Socio-economic environment of the immediate vicinity of the site and its impact zone considering that the site is in the proximity of urban sprawl.
 - Detailed impact identification, impact potential and impact evaluation and their findings.
2. Recent certified survey sketch showing all features/built structures within 200m radius
3. Proof of fixing all the boundary pillars firmly, using concrete
4. Detailed drainage plan incorporating garland canals, silt traps, siltation tanks, outflow channel and connectivity to natural drain
5. Geo-tagged location of OB dump site with protection plan
6. Compensatory afforestation plan with geo-coordinates of the proposed site, geo-tagged photographs to show the present status and ownership details along with proof.
7. Plan for sanitation and waste management arrangements
8. Plan for energy conservation measures
9. Revised EMP incorporating identified environmental issues, site-specific mitigation measures, and adequate budget estimate for implementation for the entire life of mine, incorporating CER as per OM dated 30.09.2020 of MoEF & CC.
10. A detailed plan for mitigating the complaints raised in the Public Consultation.
11. Additional mitigation plan to reduce severe dust problem, jerking and nuisance, especially to children and elderly population, too many quarries, narrow roads and

traffic congestions, fear of accidents, structural problems to buildings, disturbance to fauna, etc.

7. SIA/KL/INFRA2/418741/2023, 2236/EC3/2023/SEIAA

Environmental Clearance for the Building Project Avigna Warehouse/ Logistics Park at Parakkadavu, Ernakulam Re-Survey Nos.: 219/1, 219/2-4, 219/2-6, 219/2-5 & 219/2-3, 219/2-4-2, 219/2-5-2, 219/2-6-2, 230/11, 230/1, 219/1-3, 220/1, 220/1-2, 219/2-2, 219/2, 230/7, 220/2 in Parakkadavu Village, Aluva Taluk, Ernakulam

Decision: The Committee verified the documents submitted by the project proponent and found them satisfactory. The total built-up area is 51534.58 m². The field inspection was conducted on 15.07.2023. Based on discussions, **the Committee decided to recommend EC for a period of 10 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
2. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
3. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
4. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996.
5. An adequate built-in composting facility should be set up for the treatment of biodegradable waste as the capacity or the number of BIOBIN proposed is found inadequate.
6. Climate-responsive design as per Green Building Guidelines in practice should be adopted
7. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc. as far as possible
8. Exposed roof area and parking area should be covered with material having high solar reflective index
9. Building design should cater to the differently-abled citizens
10. Adequate rainwater infiltration facility should be established to enhance groundwater recharge.
11. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the

- natural drain should be enhanced to contain the peak flow
12. Water-efficient plumbing features should be adopted
 13. Design of the building should be in compliance to Energy Building Code as applicable
 14. Energy conservation measures as proposed in the application should be adopted in total
 15. Buildings to be constructed should be barricaded with appropriate barrier sheets of 6 m. (20 feet) height to avoid disturbance to other buildings, if any, nearby.
 16. Usage of energy saving 5 star rating equipment such as Solar Geyser and LED lamps should be promoted as part of energy conservation. Minimum 40% of the energy requirement should be met from Solar power.
 17. Green belt should be provided all along the periphery of the proposed site using indigenous plants, herbs and climbers and indigenous trees in the open spaces with one tree in every 80m distance.
 18. Open space shall be provided as per the building norms.
 19. Construction work should be carried out during day time only.
 20. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
 21. All vehicles carrying construction materials should be fully covered and protected.
 22. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
 23. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
 24. Occupational health safety measures for the workers should be taken during the construction.
 25. All vehicles during the construction phase should carry a PUC certificate.
 26. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
 27. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.
 28. The Project Proponent shall obtain all necessary clearances/licenses/permissions from all the statutory authorities issuing clearances/ licenses/ permission for construction projects of this nature

8. SIA/KL/MIN/209584/2021, File No: 1903/EC3/2021/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry over an extent of 3.6153 Hectares in Survey No. 231 part (Govt. Land) at Konnathady Village of Idukki Taluk, Idukki District, Kerala.

Decision: The Committee verified the comprehensive EMP submitted by the proponent. The Committee observed that the EMP specifies buffer zone plantation to reduce accidents. This is not found feasible due to the site characteristics. The Committee noted that the Proponent

was directed to submit a comprehensive EMP considering the fact that the site falls in environmental sensitive area such as the western ghat region and factors such as ecological sensitivity of the region and their possible fragmentation, water management considering the heavy rain and consequent high runoff, high slope and possible disaster and accident situation, if any, etc are extremely critical factors. On detailed scrutiny, it is found that the ecological sensitivity of the region, possible fragmentation, possible disaster, and accident situation etc are not specifically addressed in the EMP. Hence **the Committee decided to get a revised EMP addressing all the details sought by the Committee in its 147th meeting.**

**9. SIA/KL/MIN/59482/2020 , 1871/EC1/2021/SEIAA
Environmental Clearance for the Building Stone Quarry Project, M/s Metarock Private Limited at Block No. 41, Sy. Nos. 340/8, 340/19, 340/22, 341/2-1, 341/2-2, 341/2-3, 341/3, 341/8, 341/8-1, 356/2, 356/4, 356/5, 356/5-1, 356/5-2pt, 356/5-3, 356/5- 5, 356/6pt, 356/10, 356/10-1pt, 356/10-1-1pt, 357/7-1pt, 357/26pt, 341/1pt, 356/3pt, in Aruvikkara Village, Nedumangad Taluk, Thiruvananthapuram, Kerala**

The Committee first heard the complainants Sri. Abilash, Sri. Ajay K, Sri. Rajendran S and Sri. Sujith S. The Complainants informed that there are three units of quarry and crusher and one unit of crusher operational in the area. They quarry and crusher units are operated by M/s. Blue star, Travancore and Metarock and crusher unit is operated by M/s. Poabs.

Sri. Rajendran submitted that his house is 130m away from the quarry of M/s. Meta rock which is currently working and 65m away from the proposed quarry of M/s. Meta rocks. A cattle shed owned by him is located at 30m from the boundary of the proposed quarry. He stated that the water level in his well is decreased due to the operation of the quarry and the dust pollution causes ailments to children. No green belt is provided to the quarry. The vibration is very high due to excessive blasting violating the norms and there are cracks developed to his houses. The stream leading to River Karamana from the region is now dried up due to the quarrying activities.

Sri. Ajay. K submitted that the EIA study has not addressed all the aspects of the site. The stream near BP 13 and 14 is dried up. The wastewater is drained to the nearby wetland area. Near to the BP 17, 18 there is a public access road (1m width walkway) which is just 1m from the boundary pillars. There are more houses than the number mentioned in the EIA report. There is a house at 50m as per satellite imagery and physical measurement (distance from the midpoint of BP13 & BP14). All the quarry and crusher units use the same road and high capacity Torus trucks are operated frequently. Due to this there is severe dust pollution and damage to the drinking water pipeline leading to water scarcity issues.

Sri. Sujith and Sri. Abhilash submitted that due to the working of the quarries, there are a large number of cancer and respiratory patients in Irayamcode, Cheriyaakonni, Manamboor & Kadambanad wards in Aruvikkara Panchayath. During the transportation of materials, the

clay mixed water fall on the roads and on drying up, it causes severe dust pollution problem. The water quality in the area is also deteriorated. The certified survey map submitted is also not factual exemplified by the fact that a house located at 50m from the boundary is indicated as at a distance of 63m.

The Complainants submitted that though they have raised these issues during the Public Hearing, but was not attended to. The environmental issues that they are facing is very severe due to which they are unable to live in the area.

Subsequently the Committee heard the Proponent, Sri. Vinodlal, Managing Director, M/s Meta Rock, Sri. Rinoy Varghese, Project Manager, Sri. Shiva, Geologist of Metarocks and Sri. P.Z Thomas, Consultant, Environmental Engineers and Consultants Pvt Ltd. The Proponent submitted that he has taken all the required clearances and arranged to rectify the issues highlighted during the Public Hearing. He also said that he was appreciated by the enforcement agencies for the compliances of all the conditions and he will continue to abide by all the stipulations and directions issued by the authorities.

The Consultant intimated that all the complaints raised during the Public Hearing were addressed the concerns now raised are about the other existing quarries in the area. The EC to the existing quarry of M/ Meta Rocks is valid up to 31.10.2023. The rest of the quarries, Travancore Blue metals and Blue Star are working with court direction after the EC period.

The Committee after hearing the complainants and the project proponents and decided the following:

- 1. The complainants have to submit the hearing note with all supporting documents within 7 days.**
- 2. The project proponent has to submit the hearing note with all supporting documents within 7 days**
- 3. The project proponent has to provide specific remarks on the above averments raised by the complainants separately in the hearing note.**

Any Other Items:

- 1. Corrections to the specific conditions recommended in the ToR for Granite Building Stone Quarry of M/s Shah Quarry (Represented by its Managing Partner, K J Thomaskutty) with lease area 4.8894 ha, is located in survey No. 320/1, 320/1-2, 320/1-3, 320/1-4, 320/1-5, 320/1-2-2, 320/2-3, 320/2-4, 320/2-5, 320/2-6, 320/2-8, 320/2-10, 322/2-2, 322/2-3, 322/5, 326/2-2, 325/3, 324/5-1, 324/7, 324/5-1-2, 318/1-6, 320/3, 321/15, 321/28, 321/16, 322/7, 322/4, 318/1-2 at Chadayamangalam Village, Kottarakkara Taluk, Kollam District, Kerala.
(SIA/KL/MIN/428258/2023, 2264/EC2/2023/SEIAA)**

Decision: The Committee examined the specific studies recommended in addition to the Standard ToR for conducting EIA studies for the proposed project. Based on discussions, the Committee noted that certain of the studies proposed earlier are not of primary relevance and therefore decided to review the earlier recommendation and revise the earlier decision. Accordingly, the Committee now decided to recommend the following additional studies in addition to the Standard ToR:

1. Baseline air quality data should be collected from sampling points at all the eight directions.
 2. Site specific meteorological parameters should be monitored and reported
 3. Air emissions occurring from road traffic should be monitored and used for air pollution modelling
 4. Study the impact of mining and change in landuse and landform on the hydrology of the site and its impact zone considering the seasonal variation in the rainfall and ground water table and suggest mitigative/management measures, if nay, required.
 5. Detailed traffic impact study considering the traffic density along the MC road and nearby major roads and tourism activities at Jadayupara
 6. Water quality status of the upstream and downstream portions of the natural stream that receives the drainage from the quarry and impact due to quarry discharge to the stream including sedimentation.
 7. Land stability of the site, particularly on the north and east side of the proposed quarry considering the soil thickness, slope, vegetation and rainfall infiltration.
 8. Baseline health status of the population, particularly with reference to diseases caused due to air, water and noise pollution
2. **Corrections to the specific conditions recommended in the ToR for Granite Building Stone Quarry of Sri.Syju Lekshman in 322/2-2-1, 322/1, 322/6, 323/3, 324/6, 324/9-2, 324/6-3, 324/5-2, 324/3-2, 324/3-3, 324/4 (Private Land), 325/1, 322/3, 323/2, 323/6, 323/7, 324/3 (Govt. Land) at Chadayamangalam Village, Kottarakkara Taluk, Kollam District, Kerala (SIA/KL/MIN/427939/2023, 2273/EC2/2023/SEIAA)**

Decision: The Committee examined the specific studies recommended in addition to the Standard ToR for conducting EIA studies for the proposed project. Based on discussions, the Committee noted that certain of the studies proposed earlier are not of primary relevance and therefore decided to review the earlier recommendation and revise the earlier decision. Accordingly, the Committee now decided to recommend the following additional studies in addition to the Standard ToR:

1. Baseline air quality data should be collected from sampling points at all the eight directions.
2. Site specific meteorological parameters should be monitored and reported
3. Air emissions occurring from road traffic should be monitored and used for air pollution modelling
4. Study the impact of mining and change in landuse and landform on the hydrology of the site and its impact zone considering the seasonal variation in the rainfall and ground water table and suggest mitigative/management measures, if any, required.

5. Detailed traffic impact study considering the traffic density along the MC road and nearby major roads and tourism activities at Jadayupara
6. Water quality status of the upstream and downstream portions of the natural stream that receives the drainage from the quarry and impact due to quarry discharge to the stream including sedimentation.
7. Land stability of the site, particularly on the north and east side of the proposed quarry considering the soil thickness, slope, vegetation and rainfall infiltration.
8. Baseline health status of the population, particularly with reference to diseases caused due to air, water and noise pollution

The meeting concluded at 6.00 pm.

It is decided to convene the 149th meeting of the SEAC on the 21st and 22nd of August 2023 in online platform.

**Sd/-
Suneel Pamidi, IFS
Secretary, SEIAA**

**Sd/-
Dr.R. Ajayakumar Varma
Chairman, SEAC**

LIST OF PARTICIPANTS:

Sl.No.	Name	08.08.2023	09.08.2023
1.	Shri. Sheik Hyder Hussain	X	X
2.	Dr.A.Bijukumar.	X	X
3.	Dr.A.N.Manoharan	✓	✓
4.	Shri. M.Dileepkumar	X	X
5.	Smt. Beena Govindan	✓	✓
6.	Dr.C.C.Harilal	✓	✓
7.	Dr.K.VasudevanPillai	✓	✓
8.	Dr.MaheshMohan	✓	✓
9.	Dr.K.N.Krishna kumar	✓	✓
10.	V.Gopinathan	✓	✓
11.	Dr.A.V.Raghu	✓	✓
12.	Dr.N.Ajithkumar	X	X
13.	Shri.Suneel Pamidi,IFS (Secretary)	✓	✓
14.	Dr.R.Ajayakumar Varma (Chairman)	✓	✓