

8. Proposal for Compensatory Afforestation Plan along with geo-coordinates of the proposed site, geo-tagged photographs of the proposed sites, and ownership details of the proposed site with proof.
9. Rainwater harvesting, Sanitation measures, energy conservation measures etc.
9. Revised EMP with site-specific mitigation measures.
10. Report on the suitability of the road for transportation of the quarry material based on the Guidelines for Capacity of Roads in Rural Areas published by the Indian Road Congress and the certified width of the existing road by the LSGD Engineer.

PART 1

1. SIA/KL/INFRA2/405879/2022 , 2158/EC2/2022/SEIAA

Environmental Clearance for proposed expansion of existing Hospital project to be developed by M/s Dr. K.M. Cherian Institute of Medical Sciences Pvt. Ltd (Field Inspection Report Received)

Decision: The Committee discussed the field inspection report as per the decision of the 137th SEAC and observed the following:

1. The proposal is to expand the existing Hospital project with a total built-up area of 67,313.25 sq.m. The expansion will accommodate additional 331 beds to a total of 731 beds.
2. The sources of water during the operation phase for the project are: - 1. Stored Rain Water in tanks (50%) (Non-Flushing Req.), 2. Kerala Water Authority (KWA) supply (Non-Flushing Req.) (25%) 3. Ground Water (Non-Flushing Req.) (25%) 4. Treated waste water from STP/ETP (Flushing, horticulture, boiler & cooling purposes) (Entire Year).
3. The existing STP of 200 KLD uses Moving Bed Bio Reactor (MBBR) process. The proposed 300 KLD STP is also of Moving Bed Bio Reactor (MBBR) type.
4. Car parking area of 1978m² is proposed to be provided against an estimated requirement of 519 units and also for 865 T.W. and 3 ambulances. Parking arrangements will be made at open surface ground level within the site. Also, a dedicated multi-level car parking block will be constructed (ground + 10 floors) to accommodate the parking.
5. The distance to river Pampa is only 70 m from the boundary of the hospital site and the HFL is 0.07m. The proponent has considered HFL while designing the building.

6. There will be cutting of 15 trees. The proponent has not submitted an afforestation plan with species names.
7. 8700 CuM construction and demolition waste will be generated, of which only 100 CuM will be used at the site.

Hence Committee decided to direct the proponent to submit the following additional documents:

1. A detailed drainage map indicating the layout of stormwater drains, locations of silt-traps, collection sump, settling pond, if required and overflow to local drainage network needs to be submitted.
2. Greenbelt plan and compensatory afforestation plan for an area of 0.1272 ha where the width of green belt would be 2m.
3. CCR from IRO, MoEFFCC, Bangalore.
4. Installation, Capacity, and utilization details of solar energy plan as per green condition 7 of the EC to be obtained with proof of photographs.
5. A proper CER Plan after conducting a proper need assessment with proof of need assessment process. Priority should be given to improve the conditions of vulnerable communities located in nearby areas.
6. Plan for disposal of construction and demolition waste with the details of accredited agencies collecting waste

The Committee also noted the specific conditions to be imposed as mentioned in the field inspection report.

2. SIA/KL/INFRA2/410612/, 2167/EC1/2022/SEIAA

Environment Clearance for the proposed Residential project to be developed by M/s Sobha Developers Pune Ltd. at Survey Nos.128/18-1, 128/20, 128/2-1, 128/3, 128/4-2, Cheruvakkal Village, Thiruvananthapuram Municipal Corporation, Thiruvananthapuram Taluk & District, Kerala (Field Inspection Report Received)

Decision: The Committee discussed the field inspection report as per the decision of the 137th SEAC and observed the following:

1. Proposal for Rainwater harvesting is not having location, size, calculations for storm water generation etc.

2. Provided proposal for harnessing solar energy for meeting partial power requirement of about 2.84 % but not provided provision/ details of KSEB Grid Connection.
3. Details / specific proposal is not given for Compensatory Afforestation, even though it is given in the proposal, for compensating the trees and abundant natural trees/ bushes available in the area proposed to be cut from the project area, for ensuring greenery in the area.
4. EMP cost proposed is about 1.839 % and it is not adequate to address all mitigation measures.
5. Parking for vehicles proposed is 206 Cars but not provided details of compliance as per KMBR provisions.
6. Proposed the total excavated / soil / cutting of earth of 22,842 cu.m. for construction of basements/foundation of structures. The excavated topsoil (2,713 cu.m.) is proposed to be preserved for landscaping. The remaining excavated soil will be used for backfilling work (10,000 cu.m.) and excess excavated earth of about 10,129 cu.m. will be stored in the land bank of the project proponent / road widening works / handed over to approved works with necessary permits.

The Committee decided to direct the proponent to furnish the following additional documents/details.

1. Explore the possibility of using other modern waste water treatment technologies like MBBR, rather than the proposed conventional ASP, for sewage treatment to ensure efficient treatment and for ensuring reuse / recycle potential, considering that the facility will be handed over to the residents for operation with less technically skilled operators.
2. Provide details of adequacy / operational sustainability of OWC alone and provide possibility of combining OWC with Roof Top Biobins, for ensuring operational sustainability.
3. Submit a revised storm water management plan, including rooftop harvesting, potential for recharging of rainwater or replenishing of local ground water as well as for the storage of rainwater for reuse.
4. Provide details of source of water proposed other than storm water and treated sewage.
5. Provide details of storm water collection and storage facility and treatment proposed to be given for the Roof Top Rainwater Harvested, for ensuring recycle reuse within the compound.
6. Details / plan of the proposal for using cut soil within the site to the extent possible for increasing its use in the upper part of land for making suitable land modifications for utilising

storm water for recharge of local ground water, in addition to the pond proposed at lower part of the terrain.

7. Explore possibility of increasing Solar Power Generation from the present level of 2.84 % to at least 10 % and connecting it to KSEB Grid, for ensuring better usage of non-conventional energy.
8. Explore the possibility for providing post type solar yard lighting system in the public places within the Compound.
9. Provide proper locations of Compensatory Afforestation Areas in the Site Plan, including, for compensating the trees cut from the project area. In this plan, priority should be given for planting of local species of flora in the Green Belt area / open space, compensatory afforestation area, including avenue plantations.
10. Provide details /action taken for adding up of additional parking requirements as per the KMBR provisions .
11. Provide a revised EMP cost and link it with project cost, covering all major sectors as the EMP cost proposed is only 1.839 % of project cost.

3. SIA/KL/MIN/136154/2020, 1609/EC1/2020/SEIAA

Environmental Clearance for Building Stone Quarry of Sri. Abdul Vahid. A at Block No: 37, Re Sy 111/1,110/2,110/2-1, in Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram (Hearing both the proponent and the complainant)

Decision: The Committee examined the proposal submitted by Sri. Abdul Vahid A and observed that the SEAC in its 136th meeting recommended EC for a Project Life of 7 years with certain Specific Conditions in addition to the General Conditions. The Authority in its 123rd meeting noted that there is a mass petition regarding the quarry project. The District Collector, Thiruvananthapuram didn't submit a report on the mass petition. Hence the Authority referred the proposal to SEAC to give a definite recommendation after hearing the concerned parties.

The Committee noted the decision of 123rd SEIAA meeting and heard the complainants Sri. Sunny D. Sunny Nivas, Vellannoor PO, Kilimanoor and Anoop S, Sree Sailam, Vellannoor PO, Kilimanoor. They have briefed about the mass petition signed by about 450 people and another complaint signed by 20 people. They have referred to the report of the report of the BMC Committee recommending the conservation of the area as a protected site and also the report of the Disaster Management Authority. They have also requested for detailed inspection of the site. The

Committee then heard the representative of the Proponent of Sri. Abdul Vahid, Mr. Noohukunju and Sri. Pradeep kumar. They have reported that the Proponent, Mr. Abdul Vahid expired six days ago and introduced Mr. Noohukunju as Partner and Mr Pradeepkumar as Associate. They have reported that the site is a portion of the 18 acres of land bought by the Proponent and that there are no temples or public ponds in the vicinity of the site. Both the Complainants and Proponent submitted the Hearing Note. **The Committee decided to entrust Dr. K. Vasudevan Pillai to study the hearing notes and submit a report.**

4. SIA/KL/MIN/138725/2020 , 1653/EC4/2020/SEIAA

Environmental Clearance for the Proposed Granite Building Stone Quarry of Mr. Ashraf P, for an area of 2.32035 hectares at Re. Survey No: 172 of Kodiyathur Village, Kozhikode Taluk, Kozhikode District, and Kerala (Presentation)

Decision: The Committee in its 138th meeting discussed the concerned deliberations in the 121st meeting of the SEIAA and its direction to ascertain the cluster situation based on the S.O. 2269(E) dated 01.07.2016 of MoEFCC. As invited, the project proponent, Sri. Ashraf P, and RQP Sri. Nazar Ahmmed were present. The RQP made the presentation. The Committee found that as per the presentation, the elevation difference is 190m MSL to 95m MSL. The lowest bench is 130m MSL. The total mineable reserve is 4.46 Lakh MT and the portion of proposed area is located in Medium Hazard Zone. The Committee observed the following shortcomings:

1. In the revised CER submitted the procedure for beneficiary selection has not been provided.
2. Compensatory afforestation plan has not been submitted with exact location of the site with geocoordinates and geo-tagged photographs of it and the nature, current status, proof of ownership of land and budgetary provision.
3. The project cost is 50 Lakh which seems to be inadequate.

The Committee decided to entrust Dr. A N Manoharan and Dr. C C Harilal for field inspection and report. The Sub Committee shall also verify the requirement of conducting EIA considering the applicability of cluster condition and environmental fragility of the area.

5. SIA/KL/MIN/148066/2020 , 1693/EC2/2020/SEIAA

Environmental Clearance for Granite Building Stone Quarry of Sri. Babu. P for an area of 0.6 Ha in Survey No. 535/1 in Thayannur Village, Vellarikkund Taluk, Kasaragod, Kerala (Presentation)

Decision: The Committee examined the proposal and field inspection report. The total mineable reserve is 1,00,058 MT (20,000 MTA) and the mine life is 5 years. Distance to Moderate Hazard Zone 1.3 km and that to the high hazard zone is 2.19 Km. The nearest house is at 114.6 m from the boundary of the proposed area. As per FIR two abandoned quarry pits are located in the project area and the road to the proposed area is narrow.

As invited, the Proponent, Sri. Babu P, and RQP, Dr. Muhammed Kunhi were present. The RQP made the presentation. The Committee heard the presentation, verified the documents and field visit report and **decided to recommend EC for 5 years with the following Specific Conditions in addition to the General Conditions.**

1. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
2. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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.
8. Overburden should be stored at the designed place and gabbion 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 rest room 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. The transportation from the quarry should be done only using the trucks suitable for rural roads in India as per the guidelines of the Indian Road Congress.

6. SIA/KL/MIN/235350/2021, 2061/EC3/2022/SEIAA

Environmental Clearance for the Laterite Building Stone project of BABU JOSEPH Keezeth, Edakkattuvayal, at Re. Survey No.33/10 Edakkattuvayal Village, Kanayannoor Taluk, Ernakulam, Kerala (Presentation)

Decision: As invited, the Proponent, Sri. Babu Joseph, and RQP, Sri. C. Balaraman were present. The RQP made the presentation. The Committee observed that the Geological Reserve is 71462MT and Mineable reserve is 51390 MT. The mine life is 2 years. The Elevation difference is 36MSL to 30 MSL. Depth to water table is 9m at 27m MSL. The Committee decided to direct the proponent to submit the following additional documents:

1. Litho section of the proposed area.
2. Photographs of the boundary pillars with Geo-coordinates.
3. Pre and post-mining land use details.
4. Drainage plan for preventing stagnation of water within the mine void

7. SIA/KL/MIN/239826/2021, 2044/EC6/2022/SEIAA

Environmental Clearance for the Granite Building Stone quarry project of Sri. Jayarajan. A for an area of 0.9751 Ha at Sy.No.1169/119, 1169/124 in Melmuri Village, Ernad Taluk, Malappuram District (Presentation)

Decision: The proponent informed that he was unable to attend the meeting. Hence the Committee decided to defer the item and give one more chance to the proponent for presentation.

8. SIA/KL/MIN/251835/2022 , 2011/EC1/2022/SEIAA

Granite Building Stone Quarry of Mr. Mohammed Kutty K.P. having an area of 2.0997 Ha in Re Survey Block Nos. 41, Re Survey No.155 in Cherupulassery Village, Ottapalam Taluk, Palakkad District, Kerala.(Field Inspection Report Received)

Decision: The Committee discussed the field inspection report conducted as per the decision of 134th SEAC meeting. The Committee observed that green belt development in the buffer area is difficult due to lack of soil cover. Based on discussions, the **Committee decided to direct the proponent to submit the following additional documents:**

1. Compensatory afforestation plan along with the geo-coordinates, geotagged photographs, ownership details and feasibility of planting in the proposed site. The plan should also incorporate the number and species of trees proposed to be planted and developed as a multilayer forest
2. Revised project cost as per norms.
3. Revised EMP incorporating site-specific environmental issues, mitigation measures, and adequate budget provision for the entire life of mine.
4. Revised CER consisting of specific and monitorable activities in physical terms to be undertaken by the proponent in consultation with the stakeholders along with proof of consultation process.
5. Details that are not filled in Form 2.
6. Certificate from LSG Engineer on maximum and minimum width of the road

The Committee also noted the specific conditions to be imposed, in the field inspection report.

9. SIA/KL/MIN/255880/2022 , 2081/EC3/2022/SEIAA

Environmental Clearance for the Granite Building stone quarry of “Sri. Shijo.T.Paul, at Survey No: 797/1Apt. in Kalloorkad Village, Muvattupuzha Taluk, Ernakulam District, Kerala State. (Presentation)

Decision: As invited, the Proponent, Sri. Shijo T Paul, and RQP, C Balaram were present. The RQP made the presentation. The Committee observed that the Geological Reserve is 692293 MT and Mineable reserve is 2,22,823 MT. The elevation difference is 160 MSL to 128 MSL. The depth to groundwater table is 9m from 115 MSL. Nearest built structure is at 55m from the proposed area. The Thattekad Bird sanctuary is at 18.55m. The Committee noted that the CER needs revision and the OB dump site located in front of a house need to be relocated. There are many houses located on

the lower slope of the proposed area. **The Committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar for field inspection and report.**

10. SIA/KL/MIN/259967/2022, 2025/EC1/2022/SEIAA

Environmental Clearance for Granite building stone quarry of Sri. Muralikumar K A, over an extent of 0.5130 Ha at Re-sy No-52117,15 in Erimayur -II Village, Alathur Taluk, Palakkad District, Kerala. (Presentation)

Decision: The Committee in the 138th meeting, examined the proposal, discussed the field inspection report and verified the documents submitted by the proponent and found them satisfactory. The total mineable reserve is 77118 MT (15,500 TPA) and mine life is 5 years. The Chulanur Peafowl Sanctuary is at 13.10 Km. The hazard zone is at 6.22km.

As invited, the Proponent, Sri. Muralikumar K A, and RQP, Hareesh G Thampy were present. The RQP made the presentation. The Committee noted certain shortcomings and directed the Proponent to submit the following additional details:

1. Details of the proposed CER activity including the proof of renovation of 6 buildings, the current status of beneficiary and geotagged photographs of the houses.
2. Land use details such as pre and post mining land use details that are not uploaded in Form 2.
3. Revised OB storage plan including its protection.
4. The proof of ownership of land proposed for compensatory afforestation.
5. Plan for the utilization of harvested water in the adjacent quarry and the safeguard for the existing quarry pit.
6. Revised Greenbelt plan

11. SIA/KL/MIN/272893/2022 , 2087/EC3/2022/SEIAA

Building Stone Mine (Minor Mineral Quarry) project of Mr. M. G. Babu for an area of 0.9105 hectares located at Survey Nos. 725/1, 725/2-2, 725/2-3, 725/2, 725/2, in Kalloorkad Village, Muvattupuzha Taluk, Ernakulam, Kerala. (Presentation)

Decision: The Committee in the 138th meeting, verified the documents submitted by the proponent. The total mineable reserve is 1,38,603 MT (28,000 TPA) and mine life is 5 years. The highest elevation of the area is 165m MSL and the lowest is 160m MSL. As per the survey map 3 buildings

at a distance of 16.5m 26m and another own building in 15.2m. As invited, the Proponent, Sri. M G Babu, and EIA coordinator, Sri. Jomon M C on behalf of M/s Environmental Engineers & Consultants Pvt. Ltd. were present. The RQP made the presentation.. The proponent intimated that the buildings within 50m will be relocated. The Committee heard the presentation and noted that the CER needs revision by incorporating monitorable physical targets identified based on stakeholder consultation and detailed implementation plan. The Committee also noted the need for recent Cluster Certificate. **The Committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar for field inspection and report.**

12. SIA/KL/MIN/273896/2022, 2042/EC1/2022/SEIAA

Environment Clearance for the Granite Building Stone Quarry, of Shri R. Rahulan Pillai over an Extent of 0.77.14 ha in S.Y.No. 183/5(P), 182/2, Enadimangalam Village, Adoor Taluk, Pathanamthitta District, Kerala (Presentation)

Decision: The Committee examined the proposal and noted that the mineable reserve is 162575 MT, production plan is 30889 TPA and mine life is 5 years. The depth to the water table is reported as 13m bgl. The Elevation difference is 148-140m above MSL. The Committee also noted that as per the google map a house is situated around 54m. As invited, the Proponent, Sri. R Rahulan Pillai, and EIA Coordinator, Sri. S Suriyakumar on behalf of Aadhi Boomi Mining & Enviro Tech (P) Ltd, were present. The EIA Coordinator made the presentation. The depth of mining is 12m bgl. The nearest house is situated at 54m. The Committee noted certain shortcomings in the proposal and decided to direct the Proponent to submit the following additional details.

1. Plan for Compensatory afforestation along with the geocoordinates of the proposed site and geo-tagged photographs of the proposed site for afforestation and consent from land owner if it is not owned by the proponent or proof of ownership of the land and number of plants and budget provision.
2. Recently certified legible survey map from the Village Office showing the distance to all the built structures including houses within 200m.

13. SIA/KL/MIN/274473/2022 , 2075/EC1/2022/SEIAA

Environmental Clearance for the building stone quarry of Sri,Raphy John Managing Partner, Hilltop Aggregates at SurveyNo.381/6,381/59381/64,381/66, of Kanambra1 Village, Alathur Taluk, Palakkad District, Kerala for an Area of 2.3611 Ha (Presentation)

Decision: The Committee examined the proposal and noted that total mineable reserve is 1021145 MT (85095 TPA) and mine life is 12 years. As invited, Sri. Bisto Mathai with authorization letter of the proponent Sri. Raphy John, and RQP, Sri. C Balaraman attended the presentation. The RQP made the presentation. The Committee observed that the highest elevation is 104m and lowest elevation is 74 m above MSL. The project cost is Rs. 2.5 Cr. The Peechi Vazhani Wildlife Sanctuary is at 3.1 km from the proposed area. The Committee observed the following shortcomings:

1. Letter from the concerned DFO/WL Warden stating the distance of the proposed site from the boundary of the National Park, width of the proposed/approved ESZ at the appropriate location and clarification whether the site falls within the ESZ.
2. Depth to water table monitored in the nearest dug well with geo coordinates.

The Committee decided to entrust Dr. Vasudevan Pillai & Dr. K N Krishnakumar for field inspection and report.

14. SIA/KL/MIN/274693/2022 , 2055/EC1/2022/SEIAA

Granite Building Stone Quarry of M/S J&P Constructions over an extent of 1.8741 Ha. Survey Nos. 322, 323/1, 323/2 in Ongallur- I Village, Pattambi Taluk, Palakkad District, Kerala (Field Inspection Report Received)

Decision: The Committee noted that the presentation was done in the 134th meeting. The Committee discussed the field inspection report and decided to direct the proponent to submit the following additional documents:

1. Revised project cost
2. Revised EMP incorporating site specific mitigation plans and budgetary provision for the entire life of mine and also incorporating revised CER as per norms
3. Compensatory afforestation plan with indigenous species of trees as mentioned in the biodiversity assessment report in the land earmarked for the purpose along with the geo-tagged photographs of the site proposed for compensatory afforestation
4. KML file with boundary Pillars.
5. Details that are not entered properly in Form 2.

The Committee also noted the specific conditions to be imposed mentioned in the field inspection report.

15. SIA/KL/MIN/275159/2022 , 2073/EC1/2022/SEIAA

Environment Clearance for mining permit of M/s K L R Granites for an extent of 3.8717 Ha at ReSy Block No.:20, Re-Sy No.: 47/1-9, Malayalappuzha Village, Konni Taluk, Pathanamthitta, Kerala (Presentation)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 19,73,481.98 MT (3,49,920.23 TPA) and mine life is 7 years. The highest elevation in this area is 145m above MSL and the lowest elevation is 115m above MSL. The Committee noted that the project cost is 71 lakhs. The medium hazard zone is at 2km and High hazard zone is at 6.09km from the proposed area. The Periyar National Park is at 17.14 km. As invited, the Proponent, Sri. Joshy A Champarathy, and RQP, Sri. Thambu Cherian were present. The RQP made the presentation. **Based on discussion, the Committee decided to entrust Smt. Beena Govindan & Dr. Mahesh Mohan for field inspection and report.**

16. SIA/KL/MIN/277649/2022 , 2105/EC6/2022/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Arif in unsurveyed Land for an area of 2.3045 Ha in Kurumbalangode Village, Nilambur Taluk, Malappuram District (Refer back from SEIAA)

Decision: The Committee noted the SEAC recommended to rejection of the proposal as it is in the ESA village. The project proponent submitted a request dated 16.02.2023 to reconsider the decision of SEAC to reject the proposal and the 124th meeting of the SEIAA referred the matter to the SEAC. The Committee, as per the direction of the 123rd SEIAA, decided to direct the proponent to submit the following additional document:

1. The Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with a duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession, and a report on natural hazards like landslides, etc., if any.

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

Granite Building Stone Quarry of Mr. Sabu Kuriakose, Managing Director, M/s Kavumkal Granites over an area of 0.7070 Ha. in Re.Survey No.470/6 in Vadasserikkara Village, Ranni Taluk, Pathanamthitta (Referred from 124th SEIAA)

Decision: The Committee noted that the SEAC recommended rejection of the proposal as it is located in an ESA village. The 124th meeting of the SEIAA referred the proposal to SEAC for reconsideration. The Committee as per the direction of the 123rd SEIAA and decided to direct the proponent to submit the following additional document:

1. The Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

18. SIA/KL/MIN/280530/2022 , 2088/EC3/2022/SEIAA

Environment Clearance for mining permit of Granite Building Stone Quarry of "Sri. Tom George" over an extent of 2.0508 Ha at Sy No.: 80/5/B, 80/6 & 82/2/B, Palakuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala (Field Inspection Report Received)

Decision: The Committee discussed the field inspection report and observed that a Crusher is located at a distance of 30m. The Committee also noted that the northern most quarry pit can be used for OB dumping as it is shallow and later can be used for afforestation program. The quarry pit just near (Eastern side) to the crusher is proposed as source of water and One more permit quarry is started functioning and is around 100m away from BP7. **The Committee decided to direct the proponent to submit the following additional documents:**

1. Revised EMP incorporating site-specific mitigation measures and budgetary provision for the entire mine life. The EMP shall also include measures to minimize energy consumption, enhance rainwater harvesting, improve sanitation and waste management aspects.
2. Revised CER as per the relevant OM of the MoEF & CC with provision for the entire mine life.
3. Revised project cost
4. Compensatory afforestation plan along with the geocoordinates, geotagged photographs and ownership details of the proposed site, species proposed to be planted and number of trees proposed to be planted
5. Modified OB and top-soil storage plan with their safeguard plan
6. Drainage plan showing connection to natural drainage.

19. SIA/KL/MIN/282371/2022, 2130/EC3/2022/SEIAA

Environmental Clearance for the building stone quarry at SurveyNo.487/1/2/3,487/1/3/B,491/1/2/4,493/15/11,491/1/2/4,493/15/11,491/1/2/4/2,491/1/2/4/2,491/1/2/4/2 of Pallarimangalam Village, Kothamangalam Taluk, Ernakulam District, Kerala(Field Inspection Report Received)

Decision: The Committee verified the proposal and observed that the life of mine is 9 years and depth to watertable is 21.8m. The Committee discussed the field inspection report and observed the following:

1. Mine void is 50m, the water level is at 21.8m , hence the mining should be limited to 25msl (reduce 4 benches)
2. Drainage plan has to be modified. Affidavit is required for the use of old quarry pit as siltation pond and drainage to natural stream.
3. A comprehensive compensatory afforestation plan has to be submitted.
4. Plan for boulder removal is satisfactory.

Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Modified EMP for life of mine incorporating site-specific mitigation plan
2. Modified drainage plan incorporating garland drains, silt traps, siltation ponds, overflow channel and connectivity to natural drain
3. Affidavit for the use of water from the old quarry pit
4. A comprehensive compensatory afforestation plan along with geocoordinates, geotagged photographs, ownership details of the proposed site and details of tree species proposed to be planted. Letter from the WL Warden stating the distance of the proposed area from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and whether the site falls in the ESZ or not.

The Committee also noted the specific conditions to be imposed as mentioned in the field inspection report.

20. SIA/KL/MIN/401155/2022 , 2123/EC1/2022/SEIAA

Granite Building Stone Quarry Project of Mr. J. Madhusoodhanan over an extent of 2.1449 Ha in Block No. 35, Re-Survey Nos. 352/7, 353/1, 353/2, 353/2-1, 353/3, 353/4, 353/8,

353/9, & 354/2 in situated in Nedumangad Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala (Field Inspection Report Received)

Decision: The Committee discussed the Field visit report of the subCommittee and decided to direct the project proponent to submit the following documents:

1. Plan for developing Green Belt along Buffer Zone by planting vegetation of indigenous species and nurtured regularly.
2. Provide CER as per OM dated 30.09.2020 of MoEFCC.
3. Recent legible certified survey map from the Village Office.
4. Recent Cluster Certificate.
5. Details of Garland Canal with silt traps, siltation pond and outflow channel considering the entire project area.
6. Plan for planting more avenue trees and plan for nurturing them.
7. Details of overflow water from the siltation pond for discharging into the nearby natural drain after adequate filtration.
8. Details of storage of overburden for storing at the designed place and retaining/protective wall for the topsoil and overburden storage.
9. Provide details with geo-coordinates of Compensatory Afforestation for compensating loss of Green Belt development as one side of the project site is crossing through an existing abandoned quarry pit.
10. Plan for developing road to the top level of the site.

21. SIA/KL/MIN/406104/2022 , 2173/EC4/SEIAA/2022

Granite Building Stone Quarry Project of Mr. Rajesan K, Managing Director, M/s Kodancheri Granites and Stones Pvt Ltd, at Re-Survey No.. 159/3208, 159/3209, 159/5172, 159/8673, 159/8746, 159/8747, 159/8556, 159/8557, 159/8709, 159/4875, 159/7525, 159/8745 of Nellipoyil Village, Thamarassery Taluk, Kozhikode District, and Kerala for an area of 4.3073 hectares. (124TH SEIAA-Refer Back to SEAC)

Decision: The Committee noted that the project was recommended for rejection by the SEAC as it is located in an ESA village. The 124th meeting of the Authority referred the proposal to SEAC for reconsideration. The Committee as per the direction of the 123rd SEIAA and decided to direct the proponent to submit the following additional document:

1. Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

22. 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 (Field Inspection Report Received)

Decision: The Committee discussed the field inspection report and observed that the road from project area to the main road is narrow. The mine life is 5 years and depth to water table is 4m bgl. The nearest house is at 55m and project cost is 4.3 Crores. **The Committee decided to direct the proponent to submit the following additional documents:**

1. Revised EMP incorporating environmental issues identified in and around the site and site-specific mitigation measures along with adequate budget.
2. Modified CER with monitorable physical targets and proof regarding stakeholder consultation and consent from the beneficiaries.
3. Proposal for energy conservation measures .
4. Recently certified legible survey map from the Village Office indicating the distance to all the built structures, road etc up to 200m from the project boundary.

23. SIA/KL/MIN/40868/2019 , 1447/EC2/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry in Survey No. 202 (P) in Killimangalam Village, Thalappilly Taluk, Thrissur District for an area of 0.3840 Hectares by Sri.K.M.Salim (Presentation)

Decision: The Committee examined the proposal and observed that the total mineable reserve is 19,798 MT (10,100 TPA) and mine life is 2 years. The highest elevation of the proposed area is 98 m RL and lowest is 84 m RL. Depth of mining is 75m AMSL. As invited, the Proponent, Sri. K M Salim, and RQP, Dr. P Thankaraju were present. The RQP made the presentation. The Committee observed that Peechi – Vazhani Wildlife Sanctuary is located at 7.55 km South West of the proposed area. Hence the project proponent has to submit a letter from the Wildlife Warden, regarding the distance of the site from the Wildlife Sanctuary and the width of the

proposed/approved ESZ and a report whether the site falls within the proposed/approved ESZ. The Committee observed that the project is eligible to be recommended for EC with a period of 2 years, but for the ecological sensitivity information to be received from the Wildlife Warden. The Committee also agreed to the following specific conditions.

1. Development of green belt using indigenous species 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. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
7. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
8. 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).
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures should be implemented including solar power installations
11. 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.
12. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Based on discussions, the Committee decided to direct the Proponent to submit a letter from the Wildlife Warden, regarding the distance of the site from the Wildlife Sanctuary and the width of the proposed/approved ESZ and a report whether the site falls within the proposed/approved ESZ.

24. SIA/KL/MIN/412002/2022, 2185/EC1/2023/SEIAA

Granite (Building Stone) Quarry of Sri. Sukumaran. K, Ottappalam karinkal Quarry Operators , Vyavasaya Sahakarana Sangam Limited No:SIND(P), in Block No: 34 Re-Survey Nos: 6/8, 27/3, 27/4 of Vallapuzha Village, Pattambi Taluk, Palakkad, Kerala (Presentation)

Decision: As invited, the Proponent, Sri. Sukumaran K, and RQP, Sri. V K Roy were present. The RQP made the presentation. As per the presentation, the mineable reserve is 69390 MT (25,000 MTA) for mine of 3 years. The Peechi Vazhani Wildlife Sanctuary is at 20.30 Km The Committee noted that the highest and lowest elevation are 60M AMSL to 50m AMSL. The Committee decided to direct the proponent to submit CCR from IRO, MoEF&CC, Bangalore for a quarry owned by the same proponent in the adjacent land.

25. SIA/KL/MIN/45999/2019 , 1504/EC3/2019/SEIAA

Environmental Clearance for the proposed Building stone Quarry project in Re-Survey Nos. 74/1D of Kuttoor Village, Payyannur Taluk, Kannur District by Shri.Sumith Goyal, Managing Director, M/s.RDS Project Ltd (Presentation)

Decision: In the 139th meeting of SEAC the Committee examined the proposal and documents submitted by the proponent and observed that the site is located adjacent to a mine site of the same proponent which was penalized for violations of EC conditions. The area of the site is 0.9710 Ha, mineable reserve is 3,58,110 MT and mine life is 5 years. The boundary of the proposed site seems to overlap with the violated site of the same proponent. The proposal lacks a recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary. The Sub Committee of the then SEAC visited the project site on 27.11.2020. The proponent submitted certain additional details sought for. The Committee decided to invite the proponent for a presentation with clarification regarding the additional details and shortcomings noted above. As invited, Sri. Unnikrishnan B, Assisstant Vice President, M/s. RDS Project Ltd with authorization letter of the PP Sri. Sumit Goyal, and RQP, Sri. V K Roy attended

the presentation. The RQP made the presentation. The Committee observed that the EC issued to the proposal (SIA/KL/MIN/149209/2020) falls in Sy. No. 74/1D and 74/608pt in the same village. When the KML files of both proposals are examined, it is found that the boundary pillars no. BP5, BP6, BP7 and BP10 of File No. SIA/KL/MIN/149209/2020 falls in the area earmarked in the File No. SIA/KL/MIN/45999/2019. In the circumstance, the Committee decided to direct the proponent to revise the mining plan or submit a certificate from the authority who approved both the Mining Plans stating that there is no crossover of project boundaries or sketch certified by the Village Officer depicting the proposed boundary of both the quarries in a single map.

26. SIA/KL/MIN/52716/2020 , 1654/EC6/2020/SEIAA

Environment Clearance for the proposed Granite Building Stone Quarry of Mr Sajeer Moyin for an area of 4.7425 Ha.in Survey Number 323/1-3, 323/1-4, 323/1-11 & 323/1-12 at Thiruvalli Village, Nilambur Taluk, Malappuram, Kerala (FIR Received)

Decision: The Committee discussed the field inspection report and observed that there are shortcomings in the proposal and therefore requires additional details. The Committee also observed that the Santalum album (Sandal) of varying sizes are found within the project site during the field visit. A review of the biodiversity report revealed the presence of 18 Sandalwood trees within the site. As the species is falling within IUCN "Vulnerable category" an action plan for the conservation/reintroduction of the species is essential. **Hence Committee decided to direct the proponent to submit the following additional documents:**

1. Geotagged photographs of all the boundary pillars after fixing them firmly on the ground.
2. Mitigation measures to prevent breach of impounded water in the quarry pond during and after completion of the mining activity
3. Land vulnerability assessment report considering the impact beyond the boundary of the proposed mine as the details provided is only for the proposed project area
4. Clarification on the feasibility of the drainage channel laid for connecting the garland drain to natural drain as the land through which the connectivity is proposed don not belong to the Proponent.
5. Plan map showing location of the site and connectivity for the storage of top soil and overburden and clarification as to the ownership of proposed land
6. Affidavit for ensuring the construction of gabion structure for the top soil and overburden storage and dust-free haulage road including its length and width.

7. Reason for not conducting air and water quality and noise level monitoring in locations adjacent to the areas of the operational quarry near the proposed site.
8. Revised Traffic Management Plan considering the traffic in 1st, 2nd, 3rd and tertiary order roads and traffic during the entire day time on different days of the week as the traffic study is carried out based on a brief period monitoring at a couple of locations only.
9. Report on the water availability, harvesting plan and water use and management propositions.
10. Plan for the provision of permanent water sprinklers in the main haulage road of the mine and a facility for wetting other roads with water tankers fitted with sprinklers on a regular basis.
11. Plan for the provision of permanent water sprinklers at the handling areas of resources within the mine
12. Revised EMP as the cost earmarked is inadequate and do not address all the mitigation and monitoring requirements and no cost is earmarked for maintenance till the implementation of mine closure plan
13. Revised CER as the proof of stakeholder consultation is not incorporated and no cost is earmarked for maintenance till the implementation of mine closure plan
14. Revised project cost incorporating revised budget for EMP, CER and other items, if any
15. Impact of ground vibration on all the structures within 200m periphery from the proposed mine boundary
16. Impact of ground vibration, fly rocks and air overpressure on the Valoringal Paramel Bhagavathi Temple located around 136m from the BP10 of the site
17. Recently certified legible survey indicating all the built structures within 200m from the boundary of the project site and also distance to the Parammel temple and other religious structures if any within 500m
18. Evaluation of the zone of influence of blasting vibrations and impact of blasting on the neighborhood habitats and buildings within 500 meters by carrying out vibration studies
19. Proposal for compensatory afforestation along with geo-coordinates and geo-tagged photographs of the proposed site for afforestation
20. Revised impact statement and mitigation proposal by identifying/predicting all the impacts on various environmental aspects of the area due to different activities envisaged in the project and mitigation measures to overcome adverse impacts

21. Projected environmental scenario consequent to the implementation of the proposed mine closure plan and how it will influence the environmental and social aspects of the site and its surroundings
22. Conservation plan for the Santalum album (Sandal) of varying sizes present in the site.

27. SIA/KL/MIN/66304/2019 , 1514/EC3/2019/SEIAA

Environmental Clearance for the quarry project for an area of 3.3624 Ha in Sy.No.247/1,247/2-1, 274/3, 275/2 in Anakayam Village, Ernad Taluk, Malappuram District by Sri.Muhammed, Managing Director, M/s Vettakode Granite Pvt. Ltd (FIR Received)

Decision: The Committee discussed the field inspection report and observed the following:

1. Form-2 Application is incomplete.
2. Landuse details, Ecological sensitivity data, tree-cutting details, mine void data etc are not provided in Form-2.
3. Cost for EMP is shown as 5.61% in Form-2, Rs. 16 lakh in EIA report and Rs.10.42 in ADS. The recurring cost is given only for 5 years against the mine life of 15 years.
4. Stakeholder consultation is inadequate in CER and maintenance cost is provided only for 5 years.
5. Water requirement estimated is inadequate.
6. Water source is given as ground water, but precise source proposed to be used is not given.
7. Air quality monitoring and noise level monitoring are not done in the impact zone of the project such as near quarries, high traffic locations etc.
8. EIA report is not prepared in full compliance to the Standard ToR approved.

Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Detailed drainage plan incorporating garland drain, outflow channel, connectivity to natural drain and adequate silt traps and settling ponds along with map depicting the above.
2. Proposed location and protection plan for the safe storage of the top soil and overburden
3. Details and plan for the upgradation of haulage road with protection measures
4. Detailed traffic study, traffic density along primary, secondary and tertiary roads linking the quarry area, proposed traffic plan based on detailed traffic survey carried out during the entire day on different working days at the selected spots of primary, secondary and tertiary roads in

the impact zone, particularly considering the high-density traffic areas of the impact zone as envisaged under ToR 32.

5. Detailed plan for rainwater harvesting during the pre-mining and post-mining phases
6. Detailed plan for sanitation and waste management arrangements in the site, particularly for the workers
7. Detailed plan for Energy Conservation Measures in the site and process
8. Data that were not filled in Form-2, particularly, landuse details, ecological sensitivity, tree cutting details, mine void data etc.
9. Detailed report incorporating detailed assessment of water requirement, specific source of water, safe yield of the source and source sustainability measures.
10. Air quality monitoring and noise level monitoring data of anomalous areas of the impact zone such as near quarries, high traffic locations etc. as these sites are not monitored during the EIA study.
11. List of activities involved in the project, list of environmental aspects significant to the impact zone and details of impact identified/predicted by evaluating impacts of each activity on various environmental aspects.
12. Revised EMP with site-specific mitigation measures for the impacts identified in the EIA study along with appropriate budgetary provision for non-recurring and recurring activities for the entire period of mine life till the mine closure plan is completed in full. The cost for EMP is shown as 5.61% in Form-2, Rs. 16 lakh in EIA report, and Rs.10.42 lakhs in ADS. The recurring cost is given only for 5 years against the mine life of 15 years.
13. Revised CER incorporating only monitorable physical targets, proof of stakeholder consultation and the maintenance cost for the entire life of mine.
14. Revised EIA report incorporating the details as required in the approved ToR as the EIA report is not prepared in full compliance to the Standard ToR approved. Therefore, incorporate details in the EIA report as per ToR 5, ToR 7, ToR 8, ToR 10, ToR 22, ToR 23, ToR 24, ToR 26, ToR 27 (with more number of monitoring stations), ToR 30, ToR 33, ToR 34, ToR 35, ToR 36, ToR 37, ToR 39, ToR 41, ToR 42 (addressing site-specific accidents and risks, if any) and ToR 44.

28. SIA/KL/MIN/78419/2019, 1516/EC3/2019/SEIAA

Environmental Clearance for the Granite Building Stone quarry project of Sri.MUHAMMEDALI.P having an area of 5.0511 Ha in Survey No.Block No.56,

**Sy.No.382/1-2, 382/2, 383/1, 383/1-1 in Morayur Village, Ernad Taluk, Malappuram
(Presentation- EIA Study)**

Decision: The Committee in its 139th SEAC meeting discussed the salient aspects of EIA report, EMP and proceedings of the Public Consultation held on 19.01.2022. The total mineable reserve is 30,34,007 MT. The highest and lowest elevations of the proposed area are 365m and 235m. The site is located on the side slope of a hill with elevation of about 370m above MSL. The project area falls in moderate hazard zone almost in its entirety. The land fragility of the area is high as per the landslide hazard zonation map. Many of the details to be provided in the application form are found missing. Only six people participated in the discussion during the public hearing. There are many shortcomings in the EIA report. Based on discussions, the Committee invited the proponent to present the project.

As invited, the Proponent, Sri. Mohammedali P, and EIA coordinator Sri. Damodaran on behalf of M/S. Eco Tech Labs Pvt Ltd, Chennai were present. The EIA coordinator made the presentation. The Committee observed that the Slope Stability Study was conducted by NIT, Surathkal. In the EIA report it is mentioned that there is no impact on traffic due to the project but the CO values are found to be higher and therefore, need clarification. The details sought in 139th meeting has not been properly addressed. **Hence the Committee decided to direct the proponent to submit the documents and clarification sought in the 139th SEAC meeting.**

29. SIA/KL/MIN/83001/2017, 1413(A)/EC1/2019/SEIAA

Environmental Clearance for the Mining of Building Stone Quarry Project in Re-Survey No. 8/9, in Alakkod Village, Thodupuzha Taluk, Idukki District, Kerala by Mr. U. I. John, Managing Partner, M/s Marthoma Granites (Recommended as per the decision of 140th SEAC meeting, Item No.140.08)

Decision: The Committee decided to adhere to its earlier decision in the 140th meeting.

30. SIA/KL/MIN/39461/2019 , 1546/EC1/2019/SEIAA

Environmental Clearance for Building Stone quarry project of M/s Vengunadu Granite and Sands Pvt. Ltd. at Survey Nos. 238/1, 238/2, 239/1, 239/2, 239/5, 239/6, 239/7, Block No. 22, Muthalamada 1 in Muthalamada 1 village, Chittur Taluk, Palakkad (Referred from 124th SEIAA)

Decision: The Committee noted the SEAC recommended rejection of the proposal as it is located in an ESA village. The 124th meeting of the SEIAA referred the proposal to SEAC for reconsideration. **The Committee as per the direction of the 123rd SEIAA decided to direct the proponent to submit the following additional document:**

1. The Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with a duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

31. SIA/KL/MIN/291136/2022 , 2111/EC1/2022/SEIAA

Granite Building Stone Quarry of Sri. Jayesh Thomas in Survey Block No. 31, Re. Survey No.317/10, 317/11, 317/3, 317/12 in Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (Referred from 124th SEIAA)

Decision: The Committee noted the SEAC recommended rejection of the proposal as it is located in an ESA village. The 124th meeting of the SEIAA referred the proposal to SEAC for reconsideration. **The Committee as per the direction of the 123rd SEIAA and decided to direct the proponent to submit the following additional document:**

1. The Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with a duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

32. SIA/KL/MIN/203074/2021, 1899/EC4/2021/SEIAA

Environmental Clearance for the Proposed Project is an expansion of the existing Building Stone Quarry Project at Re-Survey Nos. 1561/120, 1561/137, 1561/138, Kanichar Village, Iritty Taluk, Kannur District, Kerala in the total area of 4.8875 hectares. (KSDMA report received)

Decision: The Committee decided to entrust V Gopinathan to study the KSDMA report pertaining to the area in which the proposed project is located and submit the salient findings along with specific recommendations for the SEAC to appraise the proposal.

33. SIA/KL/MIN/195129/2021, 1893/EC4/2021/SEIAA

Environmental Clearance for the proposed Granite Building Stone Project of M/S Puthalam Constructions Pvt. Ltd. in, Re-Survey Nos. 21/149, 21/124,21/145, 21/148, 21/147, 21/156, 21/144 (Old Sy. No. 21/1A1), Kolayad Village, Thalassery Taluk, 136 45 Kannur District, Kerala for an area of 2.0235 hectares. (ADS received)

Decision: The Committee observed that the proposal is to extract granite building stone of 8,42,144 MT (1,05,268 TPA) with Mine life of 8 years. The nearest house is at 202 m and depth to watertable is 3m below ground level at the valley portion away from the proposed site. The presentation was done on 06.08.2022 and field inspection conducted on 25.10.2022. The site does not fall in landslide hazard zone. The elevation of the area vary from 95-135m above MSL and the ultimate mine depth is 80m above MSL. The Committee verified the specification of the CER proposal and found them satisfactory. In this situation, **the Committee decided to recommend EC for a mine life of 8 years subject to the following specific conditions in addition to the general conditions:**

1. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
2. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
8. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.

9. 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).
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. 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
12. 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.
13. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

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

1. SIA/KL/MIN/252208/2022 , 857/SEIAA/EC1/2981/2015

Extension of EC for the Granite Building Stone Quarry of Mr. Sivasankaran. P for an area of 2.9103 Ha in Sy.No.318/1/1, 318/1/2, 318/3 pt, 318/4, 319 pt in Thiruvalli Village, Nilambur Taluk, Malappuram District (Presentation)

Decision: The Committee discussed the study report and found that the applicant obtained EC on 17/08/2016 for 10 years. Now as invited, the Proponent, Sri. Sivasankaran P, and RQP, Dr. Nazar Ahmed were present. The RQP made the presentation. The Committee found that the project cost is 1.5 Crores. The highest and lowest elevations are 110m MSL and 41m MSL. The medium hazard zone is 7.58 km from the proposed area. Based on discussions, **the Committee decided to entrust Dr. C C Harilal and V Gopinathan for field inspection and report. During the field inspection, the Sub Committee shall consider the requirement of a comprehensive EMP considering the project proposed in the adjacent plot with File No. SIA/KL/MIN/52716/2020 , 1654/EC6/2020/SEIAA.**

CONSIDERATION OF ToR PROPOSAL

1. SIA/KL/NCP/71550/2022, 1942/EC4/SEIAA/2022

Environmental Clearance for the proposed development of Inland Waterways from Mahe River to Valapattanam River (124TH SEIAA-Refer back to SEAC)

Decision: The Proponent has not attended the presentation even after the invitation sent in advance stating that the revision of the project is under process. In the circumstance, the Committee decided to invite the proponent once again for a presentation.

PART 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/135414/2020 , 1601/EC2/2019/SEIAA

Environmental Clearance for Granite building stone quarry of Sri. K. K. Balakrishnan Nair at survey No.143/1 for an area of 0.5297Ha in Kolathur Village, Kasargod Taluk & District, Kerala (ADS Received)

Decision: The Committee heard the presentation in its 133rd SEAC meeting, examined the proposal and discussed the field inspection report. The total mineable reserve is 50525 MT (5,000 TPA) and mine life is 5 years. The nearest built structure is at 200m. The depth to the watertable is 3m bgl. The elevation of the site varies from 65-100m above MSL and the same after mining will be 57-100m above MSL. The Committee verified the documents submitted by the proponent and observed that all the details sought are not submitted and the revised CER proposed for financial assistance to Bedaduka Village is to be replaced by other activities prescribed as per OM dated 30.09.2020 of MoEF&CC. Therefore, **the Committee decided to direct the Proponent to submit (i) revised CER with monitorable physical targets decided based on stakeholder consultation along with proof of stakeholder consultation, (ii) Recent legible survey map certified by the Village Officer, (iii) Revised Project Cost and (iv) Protection plan for the abandoned quarry.**

2. SIA/KL/MIN/138486/2020 , 1984/EC1/2022/SEIAA

Granite Building Stone of Sri. P.K. Unnikrishnan situated at Block No. 20, Sy. No. 75/4 of Pirayiri Village, Palakkad Taluk & District, Kerala. (Fresh Application).

Decision: The Committee examined the application of Sri. P.K. Unnikrishnan was received on 15.02.23 and noted that the total mineable reserve is 1,72,993MT and annual production is 45,700MTA. The mine life is 3 years. The elevation difference is 180m (pit bottom) to 197.31m above MSL. The project cost is 80 lakhs. The site does not fall in landslide hazard zone. The previous EC issued to the quarry, if any, or permit details of the quarry, if quarried earlier, and site specificity of the EMP need verification. **The Committee entrusted Dr. K N Krishnakumar and Dr. Vasudevan Pillai for field inspection and report.**

3. **SIA/KL/MIN/171945/2020, 1844/EC1/2020/SEIAA**

Environmental Clearance for the proposed Granite Building Stone Quarry M/s O S Granites in resurvey numbers for an area of 0.9905 Ha at Re - Survey No. 244, Puthucode Village, Alathur Taluk, Palakkad, Kerala (ADS Received)

Decision: The Committee noted that the field inspection is completed and examined the documents submitted by the proponent and observed that the total mineable reserve is 2,20,600 MT and mine life is 5 years. The depth to water table is reported as 20 m below ground level and the nearest habitation is at 305m. The Vazhani Wildlife Sanctuary is located at 5.6 km away from the western side of the project area. The area does not fall in any landslide hazard zone. The Committee observed that since the proposed area is within 10 km from the protected areas, **the project proponent should submit letters from the concerned Wildlife Wardens, regarding the distance of the proposed site from the Peechi- Vazhani and Choolannur Wildlife Sanctuary, and the width of the proposed/approved ESZs and a statement about whether the site falls within the proposed/approved ESZ or not. The project proponent is also directed to reexamine the CER and ascertain that monitorable physical targets prepared based on stakeholder consultation along with proof of consultation is incorporated.**

4. **SIA/KL/MIN/183677/2020 , 1849/EC4/2020/SEIAA**

Environmental Clearance for Granite Building Stone Quarry of Sri. K. C. Krishnan, over an extent of 0.6199 Ha at Sy. Nos. 173/1, 173/3, in Maruthonkara Village, Vadakara Taluk, Kozhikode District, Kerala. (ADS received)

Decision: The Committee examined the proposal and verified the documents submitted by the project proponent and observed that the total mineable reserve is 1,12,547.617 MT and annual

production is 22,509 MT for mine life of 5 years. The presentation of the project was done in the 136th meeting of SEAC and the field visit has also been completed. The distance to Malabar wild life sanctuary is 4.34Km. Considering the depth to water table, the mining depth should be limited to 95m above MSL. Hence the Committee **decided to direct the proponent to submit the following additional documents:**

1. Letter from the Wildlife Warden, regarding the distance of the proposed site from the Malabar Wild life Sanctuary, width of the approved/proposed ESZ near the site and a statement about whether the site falls within the ESZ or not.
2. CER after verification of the activities suggested and correctness of the expenditure proposed.

5. **SIA/KL/MIN/195590/2021, 2041/EC1/2022/SEIAA**

Environmental Clearance for Granite (Building Stone) Quarry of Sri. Rajendran Nair for an area of 1.1862 Ha in Re-Survey Nos. 233/10, 233/11, 233/12, 233/13, 233/14, 233/15, 233/16, 233/22, 233/23, 234/4, 234/6, 234/7, 234/8 & 234/36 in Pullampara Village, Nedumangad Taluk, Thiruvananthapuram (ADS received).

Decision: The Committee perused the item and noted that the presentation was done in the 136th meeting and field inspection has been completed. The total mineable reserve is 2,31,149 MT and mine life is 8 years. The depth to watertable is 10m below ground level. There is an old crusher at 12m from the boundary of the project area and the distance to the nearest building is reported as 50.5m. The project area does not fall in any landslide hazard zone and there are no wildlife sanctuary within 10km. The Committee examined the ADS and decided to recommend issuance of EC with the following specific conditions in addition to the general conditions.

1. A buffer distance of 50m should be maintained from the boundary of quarry to the crusher.
2. Correction measures for the steep side of the abandoned quarry should be done prior to the commencement of mining.
2. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and built structures within 200m 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. 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.

5. Overflow water from the siltation pond should be discharged to the natural drain after adequate filtration
6. 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).
7. 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.
8. Overburden should be stored at the designed place and gabbion 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 rest room 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. Compensatory afforestation plan should be implemented as proposed.
15. The ultimate mine depth should be limited to 100m

6. **SIA/KL/MIN/221010/2021, 2179/EC3/2023/SEIAA
Environmental Clearance for Granite Building Stone Quarry having an area of 2.1764 Ha of Sri. Didimose Paul at Block No. 44 Re survey No. 269/1& 269/1-1 in Londoore Village, Meenachil Taluk, Kottayam, Kerala (Fresh Application)**

Decision: The Committee verified the application of Sri. Didimose Paul received on 24.02.23. The life of mine is 5 years. The project cost is 1.02 crores. The proposed area is situated in a medium hazard zone in continuity with high hazard zone. One of the boundaries of the proposed quarry is

either in the high hazard zone or adjacent to it. The Committee verified the documents submitted by the proponent and found the following shortcomings:

1. Land use split up is not submitted
2. The siltation pond seems to be crossing panchayath road and its implication need to be examined.
3. Revised EMP incorporating site-specific mitigation and management measures along with adequate budget provision is required.
4. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms by avoiding purchase plan is required.
5. Recent cluster certificate from the M& G Department is required.
6. Plan for Compensatory afforestation along with coordinates of the proposed site and geo-tagged photographs of the proposed site for afforestation and consent from land owner if it is not owned by the proponent or proof of ownership of the land and number of plants and budget provision is required.

Based on discussions, the Committee decided to invite the Proponent for presentation.

7. **SIA/KL/MIN/262881/2022, 1956/EC1/2022/SEIAA
Environmental Clearance for the Proposed Granite Building Stone Quarry, M/s SRI SRI GRANITES at Block No:12, Re-Survey Nos: 664/2,664/19, 665/22, 665/13, 666/36, 666/34 in Kuthanur-I Village, Alathur Taluk, Palakkad, Kerala (ADS Received)**

Decision: The Committee examined the proposal, discussed the report of the field inspection and the additional documents submitted by the project proponent. The presentation of the project was done in the 133rd SEAC meeting. The total Mineable reserve is 3,81,500 MT (60,000 TPA) and Mine life is 5 years. The depth to water table is 88 m amsl. The nearest built structure is at 85m. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years with the following specific conditions, in addition to general conditions:**

1. Considering the depth of the water table the ultimate depth of the mining should be restricted to 85 m amsl.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.

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 HYCR.
5. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. 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).
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office. A minimum of 20% of the energy requirement shall be met from solar energy.
11. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.
12. The abandoned quarry shall be protected as per the plan submitted and as approved by the Committee.

8. **SIA/KL/MIN/263676/2022, 1982/EC1/2022/SEIAA**

Granite (Building Stone) Quarry of Sri. G Rajeevan, Managing Partner, M/s Koodal Granites having an area of 2.2 Ha in Block No.30, Survey Nos: 404/3, 404/4, 404/5, 404/7, 404/7 -1 of Koodal Village, Konni Taluk, Pathanamthitta District, Kerala (ADS Received)

Decision: The Committee examined the proposal, discussed the report of the field inspection and the additional documents submitted by the project proponent and noted that the total mineable reserve is 6,60,160 MT (Average annual production 1,10,000 TPA) and mine life is 6 years. The distance to moderate hazard zone is 625m. The project cost is Rs.150 Lakh. The depth to water table is 65m above MSL and the ultimate mine depth proposed is 95m above MSL. The Committee heard the proponent in its 140th meeting and field inspection has been completed. **Based on discussions,**

the Committee decided to recommend EC for a mine life of 6 years with the following specific conditions, in addition to general conditions:

1. Road leading to the site is narrow and is not feasible for transportation of material from the mine. So, road should be widened the road with 7m width as per the submitted plan before commencement of mining.
2. Soil thickness of the site is high and therefore, the soil protection measures should be implemented.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
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 HYCR.
6. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. 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).
9. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office. A minimum of 20% of the energy requirement shall be met from solar energy.
12. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.

9. **SIA/KL/MIN/266045/2022, 2047/EC1/2022/SEIAA**

Granite Building Stone Quarry Of Mannarkkad Taluk Karinkal Quarry Operators Industrial Co Operative Society Ltd at Survey no. 242/1A1in Pottassery –I Village, Mannarkkad Taluk. Palakkad, Kerala (Evaluation report received)

Decision: The 133rd SEAC decided to invite the Proponent for presentation and the project was presented in the 135th SEAC. Based on discussions, the Committee decided to entrust Dr. K. Vasudevan Pillai to prepare an evaluation report. The Committee discussed the evaluation report and found that there are three sheds (Chicken Farm) at 21m, 36m and 44m away from BP4. The Proponent claimed to have demolished and dismantled these structures and proof as photographs were shown during the presentation. Based on discussion Committee decided to direct the proponent to submit the following additional documents:

1. Recent survey map from village officer showing distance of all built structures within 200 m around the project area
2. Photograph showing the boundary pillars
3. Photos to prove demolition of Chicken farm
4. Revised project cost.
5. Revised EMP incorporating site-specific mitigation plans and budgetary provision for the entire life of mine and also incorporating revised CER as per norms

10. **SIA/KL/MIN/268812/2022 , 2101/EC1/2022/SEIAA**

Granite Building Stone quarry project of Sri. Sukumaran, President of Ottappalam Taluk Karinkal Quarry Operators Industrial Co-Operative Society Ltd in an extent of 0.3332 Hectares in Re. Survey No. 495 of Ananganadi Village of Ottapalam Taluk of Palakkad District (ADS Received)

Decision: The Committee examined the proposal, discussed the report of the field inspection and the additional documents submitted by the project proponent. The Committee heard the presentation in its 138th meeting and observed that the total mineable reserve is 19563 MT and first and second year production is 10,000MT & 9564MT. The highest and lowest elevations are 150m and 125m respectively. The depth to watertable is 8m below the ground level. Based on discussions, the Committee decided to recommend EC for the life of mine of two years subject to the following specific conditions in addition to general conditions:

2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
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 HYCR.
5. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. 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).
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office. 20% of the energy requirement shall be met from the solar energy.
11. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.

11. SIA/KL/MIN/282125/2022 , 2106/EC6/2022/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project with an area of 0.9498 Ha in Sy.No.1/1A in Pulamanthole Village, Perinthalmanna Taluk, Malappuram (ADS Received)

Decision: The Committee examined the proposal and noted that as per the application, the total mineable reserve is 6,60,160 MT (Average annual production 1,10,000 TPA) and mine life is 5 years. The distance to the moderate hazard zone is 625m. The project cost is Rs.150 Lakh. The depth to water table is 65m above MSL and the ultimate mine depth proposed is 95m above MSL.

The ecological and environmental sensitivity data are given for a distance of 5km only as against 10km. Based on the verification of documents submitted by the proponent it is found that the EMP does not state the environmental issues in and around the proposed site and mitigation measures evolved for that. The depth to water table is also need clarity. **Based on discussions, the Committee decided to invite the Proponent for presentation.**

12. SIA/KL/MIN/402910/2022, 2124/EC2/2022/SEIAA

Granite Building Stone Quarry of Sri. Binoj. K. Baby, Managing Partner, M/s.Pulpally Stone Crushers for an area of 4.1000 at Survey Nos. 398/8, 398/30, 420/2, 420/3, 420/4, 420/6, 420/7, 420/8, 420/11, 421/2, 421/3, 421/4, 421/7 of Padichira Village, Sultan Bathery Taluk, Wayanad District, and Kerala, (Fresh Application)

Decision: The Committee examined the application of M/s.Pulpally Stone Crushers and noted that the total mineable reserve as per application is 1535746MT and the mine life is 20 years. The Committee noted that the KML file is not downloadable and noted the following shortcomings.

1. CER includes activities which are not specified in OM dated 30.09.2020 of MoEF&CC and need incorporation of the physical targets identified based on stakeholder consultation and detailed implementation details.
2. EMP is not based on identification of the environmental issues of the site and surrounding areas and the budget provision is inadequate.
3. Letter from Wild Life Warded/DFO regarding the distance of the proposed site from the WL Sanctuary, distance proposed/notified for the ESZ towards the site and statement whether the proposed site falls within the ESZ or not is not submitted.

Based on the discussions Committee decided to invite the proponent for presentation.

13. SIA/KL/MIN/404478/2022, 2142/EC4/2022/SEIAA

Environmental Clearance for the Proposed Laterite Building Stone Quarry project for an extent of 0.1942 Ha at Block No. 92, Re-Survey No: 23/813 in Kaliyad Village, Iritty Taluk, Kannur, Kerala. (ADS received).

Decision: The Committee verified the documents submitted by the proponent. The total mineable reserve is 15,741.25 MT and mine life is 1 year. The depth to water table is reported as 60m bgl. The Project cost is 5 lakhs. Based on discussions, the Committee decided to recommend EC for the

life of mine of one year subject to the following Specific Conditions in addition to General Conditions:

1. The excavation activity associated should not involve blasting.
2. The excavation activity should be restricted to 2m above the ground water table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The excavated pit should be restored by the project proponent for a useful purpose.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emission by covering of excavated earth during transportation.
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth .
8. Workers/labourers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. 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).

14. SIA/KL/MIN/405222/2022, 2145/EC4/2022/SEIAA

Environmental Clearance for Laterite building stone quarry of Sri. Aji for an extent of 0.1886 Ha, at Re-Survey Nos. 33/225, 33/262 in Kakkad Village, Kozhikode Taluk, Kozhikode, Kerala. (ADS received)

Decision: The Committee examined the Proposal and noted that the total proposed mineable reserve is 16502.5 MT and the nearest house is at 103m. The elevation difference is 162m and 144m above MSL and the depth to water table is 8.2m bgl in a well at 141.1m away from the proposed area. The Iruvazhinji Puzha is situated at a distance of 1.55km. The Committee heard the proponent in its 140th meeting. Based on discussions, the Committee decided to recommend EC for the life of mine of one year subject to the following specific conditions in addition to general conditions:

1. The excavation activity associated should not involve blasting.
2. The excavation activity should be restricted to 2m above the ground water table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area.
4. The excavated pit should be restored by the project proponent for a useful purpose.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emission by covering of excavated earth during transportation
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth
8. Workers/labourers should be provided with facilities for drinking water and sanitation
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented as per norms
15. 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).

15. SIA/KL/MIN/407136/2022, 2156/EC4/2022/SEIAA

Environmental Clearance for the proposed Granite (Building Stone) Quarry for an extent of 2.0110 Ha at Block No. 66, Re Survey Nos. 292/1194, 292/6358, 292/2642, 292/6357, 292/5700, 292/4163, 292/3209, 292/3455, 292/1619, 292/159, 292/3513,

292/1612, 292/747 in New Naduvil Village, Thaliparamba Taluk, Kannur, Kerala (ADS received)

Decision: The Committee examined the proposal submitted by Sri. Venesh S for an area of 2.0110 Ha. The total production is 13,89,350MT and life of mine is 12 years. About 30% of the project area falls in a medium hazard zone. The elevation of the proposed site varies from 330m to 400m above MSL. The Project cost is 2 Cr. The Committee verified the documents submitted by the proponent and found that the revised CER submitted is not in line with the OM dated 30.09.2020 and hence is to be revised. **The Committee decided to invite the proponent for a presentation.**

16. SIA/KL/MIN/407328/2022, 2157/EC4/2022/SEIAA

Environmental Clearance for the Proposed Laterite Building Stone Quarry for an extent of 0.2913 Ha in Re-Survey No: 26/162 of Panappuzha Village, Payyannur Taluk, Kannur, Kerala. (ADS received)

Decision: The Committee examined the proposal and noted that the targeted production is 25,488.75 MT and life of mine is 3 years. The total project cost is 6.77 lakh. The depth to the water table is reported as 20m bgl and the mining is proposed to a depth of 5m bgl. The Project cost is 6.77lakh. The Committee heard the proponent in its 140th meeting. **Based on discussions, the Committee decided to recommend EC for the life of mine of three years subject to the following specific conditions in addition to general conditions:**

1. The excavation activity associated should not involve blasting.
2. The excavation activity should be restricted to 2m above the groundwater table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The excavated pit should be restored by the project proponent for useful purpose
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap
6. Measures should be taken to prevent dust emission by covering of excavated earth during transportation
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth
8. Workers/labourers should be provided with facilities for drinking water and sanitation
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation

10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented as per norms
15. 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).

17. SIA/KL/MIN/407396/2022, 2195/EC4/2023/SEIAA

Environmental Clearance for Proposed Granite Building Stone Quarry for an extent of 3.4763 Hectares at Sy. Nos. 123/1805, 123/1816, 123/1826, 123/1994 & 123/ 2150 in Thinur Village & Survey Nos. 116/31, 116/32, 116/33, 116/34, 116/35, 116/36, 116/43 & 116/44 in Narippatta Village, Vadakara Taluk, Kozhikode, Kerala. (Fresh Application)

Decision: The Committee examined the proposal of M/s Malabar Stone and noted that the total mineable reserve is 10,77,300 MT for a mine life of 10 years. The project cost is 3 Crore and the EMP cost is 5 lakh. The depth of mine proposed is 88m. The Committee verified the documents submitted by the proponent and found the following shortcomings:

1. Drainage plan is inadequate as it is not connecting to the natural drain with adequate silt trap and settling tanks.
2. Photographs of the proposed area with geo coordinates is not provided
3. The geocoordinates, geotagged photographs and ownership details of the proposed site for compensatory afforestation is not provided
4. The approach road to the proposed site is not mentioned.

The Committee decided to invite the project proponent for a presentation including clarification on the above short comings.

18. SIA/KL/MIN/46586/2019, 1573/EC3/2019/SEIAA

Environmental Clearance for the Granite Building Stone quarry project of Sri. Sainudheen C. K, M/s Yesco Granites LLP having an area of 0.9460 Ha in Survey No.202/2, in Elankur Village, Ernad Taluk, Malappuram. (Evaluation Report Received)

Decision: The 132nd meeting of the SEAC entrusted Dr. A.N. Manoharan to evaluate the EIA and EMP report. The Committee discussed the Evaluation Report and noted that most of ToR are addressed in the EIA report but mostly partially or without data. The report suggested the following non-compliance in EIA report.

- Predicted noise level during the proposed quarrying operation is not explained in detail.
- Biological environment and change in ecological conditions during quarry operations are not mentioned.
- The socio-economic status of the impact zone and impact of the quarry on the habitation need detailing
- The mitigation measures are not suggested after identifying the impacts on various environmental aspects of the impact zone due to the ongoing and proposed activities.
- Process flow chart and some of the data given in the EIA report are not legible.
- The proposed mining depth is mentioned as highest 110m and lowest 90m from MSL and groundwater level is 20 to 30m bgl. But in reserve estimation depth considered is from 70m from MSL
- The water requirement for the project, source of water, sustainability characteristics of the source, water balance aspects etc need detailing
- Many of the ToRs are partially addressed without adequate data and interpretation

Based on the discussions, the Committee decided to direct the proponent the following:

1. Revise the EIA report and submit the following additional documents:
2. Legible survey map indicating the distance to the built structures including houses within 200m distance from the project boundary certified by the Village Officer.
3. Plan for OB dump location.
4. Plan for compensatory afforestation.
5. Detailed Compensatory afforestation plan which includes the geocoordinates and geotagged photographs of the proposed site, a list of plant species (trees, shrubs, climbers, etc.), time

frame, planting details, and a maintenance plan for the first five years, ownership details of the proposed site.

6. Modified drainage plan.
7. Detailed Traffic plan.
8. Details of water table depth and mine void depth.
9. Details of pre-mining land use in Form – 2.

19. 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 at Sy.No. 488, in Vettathur Village, Perinthalmanna Taluk, Malappuram (Hearing Note Received)

Decision: The Committee heard the proponent along with RQP, Mr. Mahesh S in its 138th meeting in order to comply with the judgment in WP(C) No.32498 of 2022. The RQP submitted that as per the stability study the area is stable and the landslide-prone area is more than 1km away from the proposed site. It is also submitted that the thickness of OB is 1.2 to 1.3. The Committee noted that the decision to reject the proposal was taken after appraising the project based on documents submitted by the proponent, field inspection report etc., and after evaluating various pertinent reports including those from the DFO and District Collector, documents and study reports made available by the project proponent. **Based on discussions, the Committee, decided in its 138th meeting decided to examine the submissions of the project proponent once again and conduct a revisit to the site by Sri. S Sheikh Hyder Hussain & Dr. R Ajayakumar Varma.**

The Committee noted the hearing note submitted by the project proponent and decided to provide the same to the sub-Committee deputed for field visit. The Sub-Committee has to verify the hearing note while preparing the report.

20. SIA/KL/MIN/62708/2019, 1901/EC4/2021/SEIAA

Environmental Clearance for the Proposed Granite Building Stone Quarry of Sri. Abdul Rahim for an extent of 3.8830 Ha at Re Survey Nos. at 147/46, 147/2A1, 147/2A2, 147/42, 147/43, 147/44, 147/41 in Thazhakkode Village, Kozhikode Taluk, Kozhikode, Kerala. (ADS received)

Decision: The Committee examined the Proposal and noted that the mineable reserve is 1242560 MT and annual production is 1289318MT for a mine life of 10 years. The depth to water table is 3 to 4m BGL (38m MSL). The Malabar Wildlife Sanctuary is at 12.0 km. The Committee noted that the CCR dated 9.5.2022 for the adjacent quarry is certified satisfactory. The Committee also noted that additional documents submitted include a modified mine which is not found authenticated by the concerned authority. Therefore, the Committee decided to seek clarification from the Proponent whether the modified mining plan is approved or not and if approved, proof of the same.

21. SIA/KL/MIN/70164/2019, 1393/EC2/2019/SEIAA

Environmental Clearance for Quarry Project, M/s Sreedhanya Metals at Survey No. 269/1, 269/1-1, 269/3, 269/4, 269/5, 269/5-1, 269/6, 269/8, 269/8-1, 269/17-1, 269/17-2, 270/6, 270/7-1, 270/8-1, 270/8-2, 270/9, 270/10, 270/11-1, 270/11-2, 272/11, 272/12, 272/13, 272/21, 272/14-1, 273/1-2 of Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram, Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report conducted on 8.10.2022. The minable reserve as per the approved mining plan is 12,75,845 MT, with an annual production rate of 1,27,584.50 TPA for the life of mine of 10 years. The field inspection was conducted on 8.10.2022 and the presentation was done in the 129th SEAC meeting. Based on the discussion, the Committee decided to recommend EC for the mine life of 10 years with the following Specific Conditions, in addition to General Conditions.

1. Compensatory afforestation should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
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. Outflow channel from the abandoned pit should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.
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 HYCR.
5. Monitoring of drainage water should be carried out 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. The overburden dumping site should be protected with gabion walls to prevent erosion.

7. The impacts due to blasting on all the built structures within 500m should be monitored and the results submitted along with HYCR.
8. The haulage road for about 100m should be developed prior to the commencement of mining activities. It should be maintained well and dust-free with permanent sprinkling arrangement.
9. 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).
10. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. 20% of the energy requirement shall be met by the solar energy.
12. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.
13. Buffer zones should be demarcated and planted with plants, climbers, and herbs of local species as mentioned in the biodiversity assessment report.
14. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.

22. SIA/KL/MIN/78627/2019, 1543/EC3/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry project of Sri. Abdu Rahiman A.C at Re Survey Block No.36, Re-Survey No: 269/1, 269/2, in Nediyruppu Village, Kondotty Municipality, Kondotty Taluk, Malappuram. (Evaluation Report Received)

Decision: The proposal is submitted Sri. Abdu Rahiman for an area of 2.2259 hectares. The Proposed mine life is 10 years. The ultimate pit level of the quarry operation is 135 m above MSL. The Mineable Reserves is 710742.5 MT and proposed Year wise production is 71000 TPA for Five years only. Total water requirement for the mining project is 3.5 KLD. Total Project cost is 1,75,00,000. The Amount year marked for CER is Rs. 120000. The Committee discussed the evaluation report and found the following:

Standard TOR Conditions

Sl No	Conditions	Response (Page ref in Bracket) Evaluation comments in bold
1	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.	The Letter of Intent (LOI) for this mining Granite building stone quarry project issued by Directorate of Mining and Geology Department, Kesavadasapuram, Pattam Palace P.O, Thiruvananthapuram, Letter No. 1759/M3/2019, dated. 12.03.2019. (Annexure 1)
2	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.	All the documents i.e. Mining Plan, EIA, and public hearing are compatible with each other in terms of ML area production levels, waste generation and its management and mining technology are compatible with one another. The mining plan of the project site has been submitted to The District Geologist Geology and Mining Malappuram District. (Annexure-II)
3	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and bufferzone).	Details of coordinates of all corner of proposed mining lease area have been incorporated in Chapter2 of Draft EIA/EMP Report. (Chapter 2)
4	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	Topo map enclosed in Chapter-2 (Chapter -2 Pg. no.54) In page number 54, Hydrogeological Study is seen. Topo map is given in page number 25.
5	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the	Details about the land existing for mining activities should be given Chapter 2. (Chapter-2 Page 67) In Page 67 soil details of are given. It is

	State; land diversion for mining should have approval from State land use board or the concerned authority.	not connected with this. This details is given in 23 -24 pages of chapter 2.
6	It should be clearly stated whether the proponent company has laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA report with description of the prescribed operating process/procedures to bring into focus any infringement/ deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or Administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system- of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large may also be detailed in the EIA report	
7	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	It is an opencast mining project. Blasting details are incorporated in chapter-2. (Chapter-2, Page no.65-66).
8	The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period	Study area comprises of 10 km radius from the mine lease boundary. Key plan showing core zone (ML area). (Chapter-2 pg. no.56) In Pg no 56 Objectives of Hydrogeological Investigation is given. It is not connected with this.
9	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies,	Land Use of the study area delineating forest area, agricultural land, grazingland, wildlife sanctuary, National park, migratory routes of fauna, water bodies,

	human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	human settlements and other ecological features has been prepared and incorporated in Chapter-3 of draft EIA/EMP report. There is no wildlife sanctuary and national park, migratory routes of fauna in the study area. (Chapter-1, Table no.1.1 Page no.31 – 32) In Table no 1.1. brief description of the project is given and in this the details are given.
10	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	There is top soil in this area as overburden. Top soil removed from the quarry will be stacked separately and will be used later for reclamation purposes. Chapter-2 Page no.70. In pg no 70 Biological Environment details are given. It is not connected with this.
11	The vegetation in the RF / PF areas in the study area, with necessary details, should be given	Details of flora have been discussed in Chapter-3 of the Draft EIA/EMP Report. Chapter-3. Details of flora is discussed in this chapter
12	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	Flora, fauna study observed in the study area and discussed in Chapter-3 No significant impact is anticipated. Chapter-3 Page No. 109-147. The above reports conclude: The proposed location is with regenerating vegetation bordered with Rubber and Coconut plantations. The other tree compositions are moist deciduous in nature and are mostly clustered at margins of the plot. An excavated water reservoir located adjacent to the location with unpolluted water harbours good faunal activity. Currently the major vegetation of the area covered with thick under story of invasive, native weed sand saplings. Comparatively high bird activity

		observed during the survey time. The elevation, landscape specificities and the presence of water reservoir attracts a good range of flora and fauna at this location.
13	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.	There is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant, Reserves/Critically polluted areas within 10km radius of the mining lease area. As per the description of the project area it is correct
14	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.	Details biological study (flora & fauna) within 10 km radius of the project site have been incorporated in Chapter-3 of DraftEIA/EMP Report. Chapter-3 Page No. 109- 147. It has Given.
15	Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range',	The existing granite mining lease area is not falling under forest land.

	(attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.	
16	R &R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs/STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes offline departments of the State Government. It may be clearly brought out whether the village located in the mine lease area will be shifted or not. The issues relating to shifting of Village including their R&R and socio-economic aspects should be discussed in the report.	There is no Rehabilitation and resettlement is involved. Land classified as Patta land.
17	Primary baseline data on ambient air quality CPCB Notification of 2009 water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date wise in the EIA and EMP Report. Site-specific meteorological data Should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and	Baseline data collected during South West Monsoon Season and North East Monsoon Season (October - 2020 to December - 2020) has been incorporated in Draft EIA/EMP report. Site Specific metrological data has been collected and incorporated in draft EIA/EMP report. The key plan of monitoring station has been discussed in Chapter-3. Locations of the monitoring stations have been selected keeping in view the pre-dominant

	location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre- dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.	downwind direction and location of the sensitive receptors and also that they represent whole of the study area. Chapter 3 Page No.73- 147.
18	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	Total water requirement: 3.5 kLD Dust Suppression: 1.5 kLD Domestic Purpose: 0.5 kLD Plantation :1.5 kLD Water will be source from open well. Chapter-2 Page no.66
19	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	At the last stage of mining operation, almost complete area will be worked to restore the land to its optimum reclamation for future use as water reservoir. (Chapter 4) Nothing found in connection with this in chapter 4
20	Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.	Impact of the project on the water quality & its mitigation measures has been incorporated in Chapter-4 of draft EIA/EMP report. (Chapter 4) This is in Chapter 4: Mining and its associated activities not only use a lot of water but also likely to affect the hydrological regime of the area. The major impact of deep and large mines (both underground and open cast) is of natural groundwater table. Lowering of water table may result in reduced groundwater availability. The mine is located at higher elevation on hill. The ground water level is varying between 20m to 30m below the existing ground level. Hence the ground water will not affect in the manner due to quarrying operation during the entire lease period.
21	Based on actual monitored data, it may clearly be shown whether working will	Proposed depth – Highest 200 m MSL to Lowest 145m MSL The observation made

	intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.	during the field studies are varying between 15m to 20m below the exiting ground level. (Chapter-2 Page no. 67) In page number 67, nothing found in connection to this
22	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.	There is no any stream, seasonal near the project site. (Chapter 3)
23	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.	Highest elevation :200 MSL Lowest elevation: 145 MSL (Chapter-1 Table no.1.1) A schematic diagram asked is not found anywhere.
24	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local	Green Belt Development plan is given in Chapter 2. 9 (Chapter -2 Page no.71)

	and native species and the species which are tolerant to pollution.	
25	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines	There shall not be much impact on local transport.
26	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	Adequate infrastructure & other facilities shall be provided to the mine workers. Details are given in chapter-2 of draft EIA/EMP (Chapter-2 Page no.68)
27	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report	There is no Reclamation and Restoration is involved. Land classified as Patta land.
28	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed	Suitable measure will be adopted to minimize occupational health impacts of the project. The project shall have positive impact on local environment. Details are given in chapter-9 of draft EIA/EMP. Chapter-9 Page no.180
29	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the	Suitable measure will be adopted to minimize occupational health impacts of the project. Chapter-9 page no.180

	proposed remedial measures should be detailed along with budgetary allocations.	
30	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation	CER Activity Affidavit attached as Annexure-13Chapter-6 Pg. no. 169
31	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environment Management Plan has been described in detail in Chapter-9 of the draft EIA/EMP Report. Chapter-9 EMP Concluded “As discussed, it is safe to say that this mining project does not cause any significant impact on the ecology of the area as there are no major polluting sources except the dust generated during handling of mineral. Besides this adequate preventive measures will be adopted to contain the various pollutants within permissible limits. Employment opportunities will be provided to the locals only as providing extraction of minerals from the mine site is the only prevailing occupation for them for their livelihood”.
32	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	Not applicable at this stage of submission of Draft EIA/EMP report. After the public hearing points raised and commitment of the project proponent will be incorporated in the Final EIA/EMP report Public hearing report is attached in the file. In this 15 people expressed their allegations and grievances on the project. Responses are to be analysed and appropriate resolution plan incorporated
33	Details of litigation pending against the project, if any, with direction /order	Not applicable No litigation is pending against the project in any court.

	passed by any Court of Law against the Project should be given.	
34	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.	The cost of the project is discussed in Chapter 8. Chapter-8 Pg No. 175.
35	A Disaster management Plan shall be prepared and included in the EIA/EMP Report	Disaster Management and Risk Assessment has be incorporated in Chapter-4.
36	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Benefits of the project have incorporated.
37	Besides the above, the below mentioned general points are also to be followed:-	
a	Executive Summary of the EIA/EMP report	Executive Summary of EIA Report is given from Page No.13 to 28
b	All documents to be properly referenced with index and continuous page numbering.	Complied
c	Where data are presented in the reported specially in tables, the period in which the data were collected and the sources should be indicated	Complied
d	Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF& CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.	Complied
e	Where the documents provided are in a language other than English, an English translation should be provided	Complied
f	The questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.	The complete questionnaire has been prepared.
g	While preparing the EIA report, the instruction for the proponents and instructions for the consultants issued by	The EIA report has been prepared and complying with the circular issued by MoEF vide O.M. No. J-11013/41/2006-

	MoEF vide O.M. No.J11013/41/2006-IA.II(I), dated 4th August 2009, which are available on the website of this Ministry, should also be followed	IA.II(I) dated 4 th August, 2009.
h	Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.	There are no Changes in prepared EIA as per submitted Form-I and PFR
i	As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable	Will be complied after grant environment clearance form SEIAA, Kerala
j	The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections (iii) sections of mine pit and external dumps, if any clearly showing the features of the adjoining area.	All Sectional Plates of Quarry is enclosed in Mining Plan

Based on the evaluation report the Committee observed that all the ToRs are not adequately addressed along with data and their interpretation in the EIA report. The impacts are not identified based on the evaluation of the implications of the project activities on different environmental aspects of relevance to the impact zone. **Therefore, the Committee decided to direct the Proponent to revise the EIA and EMP based on data and established procedures and by**

considering each of the ToR and suggestions and concerns, if any, expressed in the Public consultation.

23. SIA/KL/MIS/285493/2022, 2074/EC1/2022/SEIAA

Environmental Clearance for the proposed expansion within the existing Hospital, M/s Ananthapuri Hospitals Private Limited at Survey Nos. 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504 in Village Pettah, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala (ADS Received)

Decision: The Committee verified the additional documents submitted by the project proponent and decided to entrust Er. Dileepkumar for the examination of additional documents submitted and report in the next meeting.

24. SIA/KL/MIN/209584/2021, 1903/EC3/2021/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry for an area of 3.6153 Hectares at Survey No. 231 part (Govt. Land) in Konnathady Village of Idukki Taluk, Idukki, Kerala. (As per the direction of 124th SEIAA).

Decision: The Committee examined the proposal along with the previous decisions of SEAC/SEIAA regarding the consideration of applications in ESA village. The Committee discussed the proposal as directed by the 124th meeting of the SEIAA. The Committee noted the decision of SEIAA in its 123rd meeting regarding the consideration of application in ESA villages and **decided to direct the project proponent to submit the following:**

1. A Certificate from a revenue official not below the rank of Tahsildar with a duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc
2. The NOC of the proposed area is expired and hence it should be renewed.
3. The Form.2 application is not properly filled.

PART 3

1. SIA/KL/INFRA2/406920/2022, 2143/EC1/2022/SEIAA

Environmental Clearance for the Proposed Expansion of Commercial Complex Project to be developed by M/s Rajakumari Shopping Mall LLP in Re-Survey Nos. 1617/1-5, 1631/1-5, 1608/2, 1608/3, 1617/1-6, 1602/6-4, 1609/3-1-4, 1613/2-4, 1609/1-5, 1609/3-4, 1602/4-2-3, 1608/1-4, 1602/1-3, 1608/1-1, 1611/2-A-1-1, 1610/2-4, 1610/2-5, 1610/1-4, 1610/3-6, 1610/3-5, 1610/3-4, 1609/1-1-2, 1609/1-4, 1608/1-3, 1609/1-1, 1610/4-5, 1601/1-1, 1601/2-1-A, 1611/2-A-1-1-2, 1601/2-4, 1611/2-A-1-1-3, 1601/2-1-1, Attingal Village, Attingal Municipality, Chirayinkeezhu Taluk, Thiruvananthapuram, Kerala (Field Inspection Report received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 02.04.23 and found that the plot area is 0.7226 ha (7,226 sqm) and the total built-up area is 24,800.34 sq.m (Existing built-up area of 12,994.64 sqm and proposed built-up area of 11,805.70m²). The project cost is Rs. 61.94 Crores. In the 137th meeting the Committee verified the documents and observed that the traffic management plan needs revision and FAR is to be provided. The Committee observed the following during the field visit:

1. Proposal for rainwater harvesting is not having location, size, calculations for storm water generation etc.
2. Provided proposal for harnessing solar energy for meeting partial power requirement of about 14.35 % but not provided details of KSEB Grid Connection.
3. Not provided specific plan or it is not marked in the Master Plan for ensuring greenery in the area.
4. Parking area required is for 272 cars and proposed for 275 cars.
5. EMP cost proposed is about 2.16 % (Rs 147.3 lakh) it is not adequate to address all mitigation measures.

The Committee decided that the following additional documents/details are required for further appraisal:

- 1) Details of STP and explore the possibility of using other modern wastewater treatment technologies (Other than MBBR) for efficient handling of the flexible sewage generation load in the shopping mall, for ensuring better treatment efficiency at all flexible loads and for ensuring reuse/recycle potential, as anticipated in the proposal.

- 2) Details of treatment proposed to be given for the Roof Top Rainwater Harvested, and details of proposed storage location, size, calculations for storm water generation etc. for ensuring recycle reuse within the compound.
- 3) Details of Solid Waste Treatment proposed, and details of other treatment proposed, in addition to the Biogas Plant proposed, as it is not possible to handle not easily degradable waste in the biogas plant.
- 4) Details of connecting the Solar Power Generation to KSEB Grid, for ensuring better usage of non-conventional energy.
- 5) Proper locations for planting of local species of flora in the open space, around the compound, including avenue plantations.
- 6) Details /action taken for providing additional parking area more than the parking requirements as per the KMBR provisions.
- 7) A revised EMP cost, covering all major sectors as the cost proposed cost is only 2.16 % of the project cost.
- 8) Details of water requirement, availability, source, source sustainability and water balance details

The Committee decided to invite the proponent for a presentation.

2. SIA/KL/INFRA2/416303/2023, 2225/EC4/SEIAA/2023

Environmental Clearance for the Proposed Commercial cum Assembly Building Project by Smt. Ameena Begam and Mrs. Hajara Ibrahim at survey Nos. 566, 567, 568, 569, 582/24, Kasaba village, Kozhikode corporation, Kozhikode Taluk & District, Kerala (Fresh Application)

Decision: The Committee examined the proposal and noted that the built-up area is 21579.22 sqm and FAR as per the proposal is 13,154.74 sq.m. The Committee verified the proposal and documents submitted by the proponent and observed the following shortcomings:

1. The water requirement, availability, source, source sustainability and water balance details are not provided with clarity.
2. FAR of the project need verification and the correctness ascertained.
3. The capital cost for the 60 KLD STP is very low, it needs to be revised .The technology proposed for the treatment is to be re-examined. Instead of MBBR, explore the possibility of using other modern wastewater treatment technologies

4. Details of solid waste management proposal as the biogas plant proposed is inadequate due to the production of slowly degradable biowaste.
5. EMP is to be revised with site specific mitigation measures and budgetary provision.
6. The plan for the utilization of 20% of the power requirement with solar power is to be provided.

The Committee decided to invite the proponent for a presentation

3. SIA/KL/INFRA2/416727/2023, 2226/EC4/SEIAA/2023

Environmental Clearance for the proposed Residential Project by Sri. Basheer Utteri at Re.Sy.Nos.47/4, (47/48), 49/3, (49/39), 47/40 (47/39), 47/48, (47/55), 49/39, (49/45), Olavana Village & Panchayth, Kozhikode Taluk & District (Fresh Application)

Decision: The Committee examined the proposal and noted that the total built up area proposed is 29657.50 sqm and FAR is given is 22141.34 sqm. The Committee also noted the following shortcomings:

1. The EMP is not site-specific and the budgetary provision made is inadequate.
2. FAR of the project need verification and the correctness ascertained.
3. STP cost for 65KLD is to be reworked.
4. Utilization plan for the excavated soil
5. The water requirement, availability, source, source sustainability and water balance details are not provided with clarity.

The Committee decided to invite the proponent for a presentation

4. SIA/KL/INFRA2/420272/2023, 2231/EC1/2023/SEIAA

Integrated Clearance for CRZ & Environment Clearance Proposed Special Residential (A2 Category as per KMBR) (Hotel, Resort project) to be developed by M/s Travancore Enterprises Pvt. Ltd. at Re-Survey Nos.19/6, 19/8,2911-1, 1911, 1912, Vizhinjam Village, Thiruvananthapuram Corporation, Neyyattinkara Taluk, Thiruvananthapuram District, Kerala (Fresh Application)

Decision: The Committee examined the proposal and noted that the total built up area is 26,247.21 sqm and FAR is 21,015 sq.m. The project cost is 675 Crores. The proposed project consists of Hotel Rooms (108 nos.), Cottages (32 nos.) Restaurant (325 seats), Banquet Hall (750 seats) & Central Facility Block along with supporting infrastructure facilities. As per the application, the project site is near to Lakshadweep Sea and in the regulation zone (CRZ-II) as per C.R.Z Notification, 2011 and

hence the CRZ regulations is applicable. **The Committee decided to entrust Er. Dileepkumar and Dr. A Biju Kumar for field verification and report. If the area proposed is in CRZ, recommendation of the KCZMA is to be obtained.**

5. SIA/KL/MIN/134774/2020, 1646/EC4/2020/SEIAA

Environmental Clearance for the Proposed Granite Building Stone Quarry of Sri. Muhammed Themeem P C for an area of 0.5553 Ha in Re Survey No. 18/14, 22/11, 18/13 of Vavad Village, Thamarassery Taluk, Kozhikode Kerala. (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report and found that the project area is 0.5553 Ha which includes an abandoned quarry pit. The mineable reserve is 1,12,066 MT and the production plan is 22413 TPA. The life of mine proposed is 3 years. The proposal is to mine up to a depth of 45m above MSL. The depth to water table is reported as per FIR is 30m AMSL. As per the letter from the DFO, Kozhikode, there is no Wildlife Sanctuary within 10km. The proposal was presented in the 131st meeting of SEAC. During field visit the sub-Committee observed the following:

1. An abandoned quarry with about 16m vertical phase is located in the middle part of the proposed project area.
2. Access road is not developed.

Hence Committee decided to direct the proponent to submit the following additional documents:

1. Revised EMP incorporating site-specific mitigation and management measures along with adequate budget provision.
2. Revised CER with consent from the beneficiary.
3. Modified drainage plan with the connectivity to the natural drain with adequate silt traps and settling pond.
4. Development plan for approach road.
5. Boundary pillars need to be fixed and geotagged photographs of all the boundary pillars to be furnished.
6. Detailed plan for compensatory afforestation along with of the geo-coordinates of the demarcated area for compensatory afforestation, geo-tagged photographs of the location, number of trees proposed and the type and species of trees, shrubs, herbs and climbers included in the afforestation program.

6. SIA/KL/MIN/165193/2020, 1941/EC2/SEIAA/2022

Environment Clearance for the Proposed Granite Building Stone Quarry of M/s. Malom Crushers for an extent of 0.9436 Ha. Block No: 1, Survey. Nos: 146/4A2 Pt 112, 125, 139 & 307, Balal Village, Vellarikundu Taluk, Kasaragod, Kerala State.(FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report and noted that the mineable reserve is 175100MT and annual production is 35235MT for mine life of 6 years. The elevation difference is 254m MSL and 186m MSL. The proposed area falls within moderate hazard zone in continuation to high hazard zone. Thalakkaveri WLS is at 6.71km and the Kerala Karnataka boundary is at 630m. However, the Proponent has produced a certificate from the DFO dated 10.8.202 stating that there are no wildlife sanctuaries within 10km distance from the proposed project boundary. During field visit the Sub-Committee observed the following:

- a. Area falls on steep sloping hill flank which belongs to moderate hazard zone in continuation with high hazard zone.
- b. Boulders spread over the area.
- c. Land is under mixed plantation
- d. Soil thickness is relatively less.
- e. Approach road is undeveloped.

The Committee also noted that the proposal lack the following details:

1. CER as per the norms in the OM No F.No.22-65/2017-IA.III dated 30th September 2020.
2. Plan for approach road development.
3. Plan for safe removal of boulders spread over the area.
4. OB dump plan and safety measures.

The Committee also noted the contradiction that the Thalakkaveri Wildlife Sanctuary is located at a distance of 6.71km from the project boundary whereas the Proponent has produced a certificate from the DFO, Kozhikkode dated 10.8.2022 that there is no wildlife sanctuary within 10km distance from the project boundary. This need clarification. Therefore, the Committee decided to invite the Proponent for presentation.

7. SIA/KL/MIN/214224/2021, 1900/EC4/2021/SEIAA

Environment Clearance for the Granite Building Stone Quarry of M/s. Irikkur Rocks Products Private Limited, for an area of 4.8404 Ha. (11.9606 Acres) at Block No. 83, Re-Sy. No. 4, Eruvessy Village, Thaliparamba Taluk, Kannur, Kerala (FIR received)

Decision: The Committee verified the proposal and discussed the field inspection report. It is noted that the mineable reserve is 1960577.75MT and annual production is 326763MT for mine life of 6 years. The Committee heard the presentation in its 135th meeting and observed that there is a watershed in the southern part of the quarry and also a scar in the southern part. The CER needs to be modified as per the norms in the OM No F.No.22- 65/2017-IA.III dated 30th September 2020. During field visit the Sub-Committee observed the following:

- a. The project area is extensively covered by thottapayar an invaded species.
- b. The area is moderate to steep slope.
- c. Approach road need development.
- d. The scar observed at the southern outside part of the project area is old quarry work.
- e. The area falls in between north 20m away moderate hazard zone and south 50m away high hazard zone.

The elevation difference given in the FIR is different from that given in the Mining Plan. The field inspection report indicates that the distance to the wildlife sanctuary is 17km whereas the distance to Brahmagiri wildlife sanctuary is given as 9.5 km in Form 2. The EIA and EMP reports are found prepared by M/s. Global Environment and Mining Solutions, Bangalore and in the application, the name of EIA Consultant is given as M/s. Environmental Engineers & Consultants Pvt. Ltd., New Delhi. The EIA is not found addressing all the ToR adequately with appropriate data and their interpretation. The areal extent of the proposed quarry is near to 5 Ha. Another quarry of almost the same areal extent is operational within 500m. Therefore, EMP needs to be more comprehensive. **Considering the contradictions in data, significance of terrain fragility and inadequacies in the EIA report, the Committee decided to defer the item for a detailed discussion in the next meeting of the SEAC.**

8. SIA/KL/MIN/250609/2022, 2015/EC4/2022/SEIAA

Environment Clearance for the Proposed Granite Building Stone Quarry, M/s Super Stone Crusher at Un. Sy. No. 1452 (Pt) and 1453(pt) (Not final) of Koodaranji Village, Thamarassery Taluk, Kozhikode District of Kerala for an extent of 1.1915 Ha (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report. It is noted that the mineable reserve is 709198 MT and annual production is 49000 MT for mine life of 12 years. The elevation difference is 550m MSL to 600m MSL and area falls in the medium hazard zone. Depth to water table is 505 MSL (Post Monsoon) 501 MSL (Pre-Monsoon). After hearing the presentation in its 134th meeting, the Committee observed that the proposed area is in a moderate hazard zone near to a high hazard zone. The slope of the northern side of the project area is very steep. Overall, the land fragility is very high. The Committee noted that the EMP needs revision with site-specific mitigation and management measures along with adequate budget provision. The CER plan also needs revision incorporating monitorable physical targets in consultation with stakeholder. During field verification the Sub-Committee observed the following:

1. The proposed site falls in a medium-hazard zone, with a distance of 327m to the high-hazard zone. The elevation is 600m above mean sea level. The slope on the northern side is steep. Rocks are mostly exposed and loose boulders are present at the project site. The access road is poorly developed with no boundary walls.
2. The area is having mixed natural vegetation with a major part occupied by exposed crystalline rock.
3. Proposed project area falls on the lower flank of a hill range.
4. Soil thickness is low or nil.

Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Considering the steep slope of the project site, a detailed drainage map of the project site, including its connectivity to the natural drain should be submitted.
2. A compensatory afforestation plan along with geocoordinates, geotagged photographs and ownership details of the proposed location
3. Photographs of boundary pillars fixed with concrete
4. A proposal for the management of boulders
5. A revised map indicating the location and means of storage of the topsoil/overburden.
6. EMP needs revision incorporating environmental issues identified in and around the site and site specific mitigation measures along with adequate budget.
7. Revised CER with stakeholder certification (Presently, certification is only from Kuliramooty Anganwadi, Koodaranji)
8. Details of water requirement, availability, source, source sustainability and water balance

9. Depth to water table below ground level in the nearest dug well alongwith the relief of the ground and distance from the site
10. Detailed study on the landslide proneness of the site and the impact zone by an expert institution.

9. SIA/KL/MIN/278375/2022, 2078/EC4/2022/SEIAA

Environment Clearance for the Proposed Granite (Building Stone) Quarry of Sri. Haris. C, for an extent of 1.0694 Ha at Re-Survey No.93/68, Block No – 7 in Raroth Village, Thamarassery Taluk, Kozhikode, Kerala for an extent of 1.0694 Ha (FIR received)

Decision: The Committee examined the proposal discussed the field inspection and noted that the total mineable reserve is 385825 MT and average annual production is 32000 MT for mine life of 12 years. Min & Max elevation prior to mining is 95 – 45 meters (95 – 30 meters). The depth to water table is 8.2 m bgl (26.8 msl) and the Malabar Wild Life Sanctuary is at 9.44 Km. The Committee decided to direct the proponent to submit the following additional documents:

1. The access road to the project site is not as per standards and a detailed plan has to be submitted
2. The water resources proposed for quarry operations are located very far from the project site. The mode of transport and storage at the project site has to be specified. Also, the consent to collect water from the proposed sources is to be produced.
3. Proposal for Compensatory Afforestation Plan along with geo-coordinates of the proposed site, geo-tagged photographs of the proposed sites, ownership details of the proposed site with proof.
4. CER fund of Rs. 7 lakhs have been earmarked for the installation and maintenance of 20 solar street lights. The proposed locations of their installation have to be specified.
5. Revised EMP with cost earmarked for the project duration has to be submitted.
6. Wildlife sanctuary is reported to be at a distance of 9.44 Km from the project site. Letter from the Wildlife Warden, regarding the distance of the proposed site from the Malabar Wild life Sanctuary, width of the approved/proposed ESZ at the project location and clarification whether the site falls within the ESZ.

10. SIA/KL/MIN/284456/2022, 2108/EC4/2022/SEIAA

Environmental Clearance for the proposed Laterite Building Stone Quarry of Sri. Cherunni. K, for an extent of 0.5827 Ha at Re-Sy No-32/2D, in Kakkad Village, Kozhikode Taluk, Kozhikode, Kerala. (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report. It is noted that that the total mineable reserve is 48063.75MT and annual production is 16992.5MT for mine life of 4 years. The elevation difference is 175m MSL and 150m MSL. During field verification, the Sub-Committee also observed the following:

- a. Moderate slope towards BP1-2 and BP1-4 directions.
- b. Land is under healthy rubber plantation which is productive.
- c. Soil thickness is moderate.
- d. Access road needs development.
- e. An open well (unused) is located within the project area

The Committee decided to direct the proponent to submit the following additional documents:

1. Revised Environment Management Plan incorporating site-specific mitigation measures and adequate budgetary provisions for the life of mine
2. Revised drainage plan for the area extending from BP1- BP2 and BP1- BP4 BP, indicating its connectivity to the natural drain.
3. Details of source, transport and storage of 4KLD of water and the consent to use the water sources (as the well proposed for extraction of water is not within the project site)
4. Detailed road plan to the project site

11. SIA/KL/MIN/285616/2022, 2107/EC4/2022/SEIAA

Environmental Clearance for the proposed Laterite building stone quarry of Sri. Ashraf. K, over an extent of 0.8094 Ha, Re Survey No.64/75, in Ulliyeeri village, Koyilandy Taluk, Kozhikode District, Kerala. (FIR received)

Decision: The Committee verified the proposal and discussed the field inspection report conducted on 05.04.23 and found that the total mineable reserve is 70822.5 MT and annual production is 16992.5 MT for mine life of 4 years. Depth to watertable is 10m bgl and maximum elevation difference after mining is 110m to 84 m amsl. Moderate hazard zone is at 4.84 km. During field inspection the sub-Committee also observed the following:

1. The area forms top of a hillock, which is moderately sloping towards the west.
2. Exposed laterite, grass lands and bushes with intermittent trees are noticed in the project site. Santalum album is found growing intermittently in the site.
3. Water resources meant for quarry operations are not seen within the project site.
4. An educational institution (M-Dasan College of Engineering) is seen nearer to the project site.
5. Presently there is no direct access road to the project site. The sub Committee entered the project site through the main gate of the nearby educational institution.

The Committee also found the following shortcomings/ lack of documents/clarification:

1. EMP of the project with details of activities for the entire project life. CER plan with stakeholder's consent letter.
2. Detailed road plan to the project site
3. Considering the slopy nature of the site, a detailed drainage plan, indicating its connectivity to the nearby drain
4. The boundary pillars are with statutory descriptions and geotagged photographs of the same.
5. There are saplings / trees of Santalum album noticed in the project site. A management plan for their conservation.
6. As there are no water resources within the project site, consent letter for the use of water from various sources

Based on discussions, the Committee noted that the road leading to the proposed site is through an educational institution. It is not a feasible option. Therefore, considering the transportation constraints and other shortcomings and observations in the FIR, the Committee decided to recommend rejection of the proposal.

12. SIA/KL/MIN/286117/2022, 2067/EC4/2022/SEIAA

Building Stone Minor Mineral Mining (Quarry) project, M/s V K Stone Crusher for an area of 3.7324 hectares at Re-Survey Block No. 59, Re-Survey Nos. 6/527, 6/526, 6/537, 6/600, Vellarvally Village, Iritty Taluk, Kannur, Kerala. (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report. The Committee noted that the total mineable reserve is 13,16,300 MT (1,30,000 TPA) and mine life is 12 years. Depth to water table is 76m above MSL and the elevation diff. after mining is 170m to 85m MSL. The thickness of overburden is 1.1m and the area falls within moderate hazard zone in

continuation with the high hazard zone. The project site seems to be environmentally very fragile. The Vellarvalli village is vulnerable to landslides as per the District Disaster Management Plan. The presentation of the project was done in the 136th SEAC meeting. The Aralam Wildlife Sanctuary is at 11Km. The Sub-Committee during field visit observed the following:

- a. The proposed area is moderately sloping.
- b. Land use is partially rubber plantation along with mixed trees. Portion of the land is barren.
- c. Two old abandoned quarry located one at south eastern area and other at south western part.
- d. The abandoned quarry located at southwestern area part of the proposed quarry is used to stock M-sand and baby metal.
- e. Soil thickness near BP 1 and BP 29 is moderate (about 3m).
- f. Boulders present at southern side of the project area.
- g. Crusher is located very near to the southern boundary of the project area (BP 21 to BP 25.)
- h. The proposed area falls in moderate hard zone in continuation with high hazard zone.
- i. During the field investigation it is observed that nearest open well is located at the southern side of the proposed project area at an elevation of 76m and water level is observed at 8m bgl.

Based on discussions and considering the landslide fragility of the area represented by moderate hazard zone in continuity to high hazard zone, nearness to crusher and the Village classified as vulnerable to landslides, the Committee decided to recommend rejection of the proposal invoking Precautionary Principle.

13. SIA/KL/MIN/286387/2022, 2077/EC4/2022/SEIAA

Environmental Clearance for the proposed Laterite Building Stone Quarry of Sri. Kunhimammed, for an extent of 0.3884 Ha, at Re-Survey No-1/41(1/1B2) in Poolakode Village, Kozhikode Taluk, Kozhikode, Kerala. (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report. The Committee noted that the total mineable reserve is 40782MT and annual production is 20391MT for a mine life of 3 years. The elevation difference is above 90m MSL and 79m MSL. The nearest built structure is at 62.61m. The presentation was done in the 134th SEAC meeting. During field verification, the Sub Committee observed the following:

1. Access road is not constructed.
2. The project area is having mixed vegetation
3. An open well is located within the project site. The water level in the well is 22m AMSL
4. Laterite resource quality is moderate to poor.
5. An abandoned quarry is seen nearer to the proposed site.
6. Margin area beyond B1 and B2 boundary outside the project area is steep sloping with Areca palm sapling.

Hence **Committee decided to direct the proponent to submit the following additional documents:**

1. CER amount specified (Rs. 54000) is comparatively low. Revised Corporate Environment Responsibility plan incorporating monitorable physical targets decided based on stakeholder consultation (other than for Cheruvadi Anganavadi) should be submitted.
2. Revised Environment Management Plan incorporating site-specific mitigation measures and adequate budgetary provisions for the life of mine
3. Plan for providing protection to the project margin with significant slope beyond B1 and B2 boundary outside the project area
4. Detailed lithological section.
5. Drainage plan to ensure that there will not be any stagnation of water within in the proposed mine.

14. SIA/KL/MIN/290613/2022, 2128/EC1/2022/SEIAA

Environment Clearance for the Proposed Granite Building Stone Quarry of M/s Johnson Rocks for an extent of 0.8949 Hectares at Sy. No. 138/4 (Pt) & 140/4 (Pt), Patta Land in Iravon Village, Konni Taluk, Pathanamthitta (Fresh Application)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 220424 MT and annual production is 46925 TPA for mine life of 5 years. The highest elevation of the Permit area is 157 m MSL and lowest elevation is 131 m MSL. The project cost is 1.475 Crore. The Committee on primary verification of the proposal found that:

1. The EMP need modification incorporating site-specific mitigation and management measures along with adequate budget provision.

2. The CER need revision by incorporating the specification of activities and proof of stakeholder consultation.
3. The drainage map need improvement by incorporating garland drains, silt traps, siltation ponds, overflow channel and connectivity to nearby natural drain.

The Committee decided to entrust Dr. Mahesh Mohan and Smt. Beena Govindan for field inspection and report.

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

Environmental Clearance for Proposed Granite Building Stone Quarry of M/s. Crystal Sands and Metals, for an area of 1.9827 hectares at Re-Survey No.56/70, 56/69, 56/9, 56/15, 56/16, 56/18 in Kumaranellur Village, Kozhikode Taluk, Kozhikode, Kerala (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 04.04.23. The total mineable reserve is 996696.0MT (83058MTA) and mine life is 12 years. The depth to water table is reported as 14m above MSL. The High Hazard zone is at 6.7 km and the nearest house is at 106m. The Project Cost is 2Cr. The depth to watertable is 10-14m bgl from 47.5m MSL and the maximum elevation after mining is 43.54m amsl . The Malabar wild life sanctuary is at 21.4km. The sub-Committee during field verification observed the following:

- a) An abandoned quarry with a vertical wall of about 25m exists at south eastern corner of the project area. The quarry was functional till 2016. The mining in the quarry was without observing mining principles and safeguards and without providing adequate benches and drainage systems. The quarry pit is partially filled with water. There is no fencing for the abandoned quarry and therefore, it is vulnerable to accidents..
- b) A high-tension line is passing at about 119.5m away from eastern margin of the proposed area.
- c) The haulage road need development. Fish-belly may be provided for smooth traffic.
- d) The slope of the project site is towards south western side.
- e) Soil thickness is moderate.
- f) Most of the project area is covered by healthy and productive rubber plantation.

The Committee decided to direct the proponent to submit the following additional documents:

1. KML file has to be provided with boundary pillars
2. Present land use details of the project site has to be furnished.

3. Depth to water table in the nearest dug well along with the relief of the well location
4. Water requirement, availability, source characteristics, source sustainability and water balance details
5. Revised Corporate Environment Responsibility incorporating monitorable physical targets decided based on stakeholder consultation.
6. Proposal for Compensatory Afforestation Plan along with geo-coordinates of the proposed site, geo-tagged photographs of the proposed sites, ownership details of the proposed site with proof.
7. Modified drainage plan showing the connectivity to the natural drainage system.
8. Plan for the development of Haulage Road with provision for fish belly.
9. Proposal for correcting the damages due to indiscriminate mining in the adjacent quarry along with a safeguard plan
10. Reason for not implementing closure plan for the abandoned quarry.

16. SIA/KL/MIN/409918/2022, 2188/EC1/2023/SEIAA

Granite building stone quarry project, M/s. Nedumon Granites Private Limited at Re-Sy Block No: 19, Re-Sy. Nos: 687, 693/2, 692/6, 692/1 in Ezhamkulam Village, Adoor Taluk, Pathanamthitta, Kerala (Fresh Application)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and found that as per the application, the total mineable reserve is 7,97,879.08 Tonnes and annual production is 1,26,918.32 TPA (max) for mine life of 9 years. The highest elevation in this area is 120m above MSL and the lowest elevation is 90m above MSL. The project cost is 349.67 lakhs. The Shendurney wildlife sanctuary is at 33.62 kms. **The Committee decided to invite the proponent for a presentation.**

17. SIA/KL/MIN/410409/2022, 2229/EC4/SEIAA/2023

Environmental Clearance for the Proposed Laterite building stone quarry for an extent of 0.5301 Ha at Re-Survey Block No.005, Re Survey No.53/1A of Kakkodi village, Kozhikode taluk, Kozhikode Kerala State (Fresh application)

Decision: The application of Sri. Abdul Hameed was received on 15.12.22. The total mineable reserve is 26505 MT and annual production is 36203 MT. The project cost is 30 lakhs. The life of

mine is 3 years. The Committee found that the details of the proposed CER are to be relooked. **The Committee decided to invite the proponent for a presentation.**

18. SIA/KL/MIN/410913/2022, 2215/EC/2023/SEIAA

Environmental Clearance for the Proposed Granite Building stone quarry at Re Survey No. 325/11,332/5,332/11,332/10,332/3,332/1-1, Block No.29 in Kavanur village , Ernad Taluk, Malappuram.(Fresh Application)

Decision: The application of Sri. Muhammed K P was received on 24.01.23. The total mineable reserve is 346900 MT and annual production is 34,690MTA. The mine life is 10 years. The highest elevation of the lease area is 110 m MSL and the lowest is 85 m MSL. The distance to high hazard zone is 8.96 km. The project cost is 1.25 crores. The Committee verified the documents submitted by the proponent and found the following short-comings:

1. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
2. Drainage plan connecting to natural drain.
3. The EMP is to be modified, Revised EMP incorporating site-specific mitigation and management measures along with adequate budget provision.

The Committee decided to entrust Dr. C C Harilal and Sri. V Gopinathan for field inspection and report.

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

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

Decision: The Committee examined the proposal and noted that the total mineable reserve is 2071525 MT and annual production is 456295 TPA. The mine life is 10 years. The Committee verified the documents submitted by the proponent and found that as per the cluster certificate dated 01.11.22 there is another quarry having an area more than 4 ha within 500m radius. The total area is more than 5Ha. As per the Note of SO. 2269€ dated 01.07.2016 it is stated that, the leases not operative for three years or more and leases that have got environmental clearance as of 15th January, 2016 shall not be counted for calculating the area of cluster, but shall be included in the Environment Management Plan and the Regional Environmental Management Plan. The adjacent

quarry is having valid EC but it is not functional as per the Cluster Certificate. **Therefore, the Committee decided to refer the proposal to the Legal Officer for advice whether to direct the Proponent for submitting application for ToR or not.**

20. SIA/KL/MIN/413982/2023, 2212/EC3/2023/SEIAA

Environmental Clearance for Granite (Building Stone) Quarry over an extent of 0.9980 Hectares in Re-Survey Nos. 27, 28 & 28/1 at Erumeli South Village, Kanjirappally Taluk, Kottayam Kerala (Fresh application)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 3,56,697.5 MT for mine life of 4 years. The highest elevation of the permit area is 175m above MSL and the lowest elevation is 130m above MSL. The project cost is 1,43,00,000. Based on the discussion Committee found the following shortcomings:

1. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
2. The EMP is to be modified, Revised EMP incorporating site-specific mitigation and management measures along with adequate budget provision.
3. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms.
4. Distance to ecologically sensitive zones such as National Parks, Wildlife Sanctuary etc.

As per the google image it is observed that another quarry of M/s Delta is seen within 500m radius. But cluster certificate dated 04.01.23 certified that there is no quarry within 500m radius. It is decided to seek clarification on the same. **The Committee decided to invite the proponent for a presentation.**

21. SIA/KL/MIN/414351/2023, 2210/EC1/2023/SEIAA

Proposed Granite (Building stone) quarry project, M/s RKP Minerals and Metals Private Ltd at Block no.30, Re Survey No. 233/2-3-1,233/2-5-1,233/2-2,233/6,233/6-1,234/5, in Thekkada village , Nedumangad Taluk, Thiruvananthapuram (Fresh application)

Decision: The Committee examined the proposal and noted that the mineable reserve is 96100 MT and the annual production is 24,000 TPA for mine life of 4 years. The highest elevation of the lease area is 165m MSL and the lowest is 140m MSL. The project cost is 65lakhs and nearest house is

located at a distance 51m away from mine boundary. **The Committee decided to invite the proponent for a presentation.**

22. SIA/KL/MIN/416051/2023, 2219/EC3/2023/SEIAA

Granite Building Stone Quarry of Sri. A. H. Sheriff Survey Nos. 1087/1A2 at Mulavoor Village, Muvattupuzha Taluk, Ernakulam District, Kerala (Fresh application)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 3,91,250MT and annual production is 40056 TPA. The mine life is 5 years. The highest elevation is 94 m RL and lowest is 34 m RL. The project cost is 1,90,00,000. The Committee verified the documents submitted by the proponent and **decided to entrust Dr. K N Krishnakumar and Mahesh Mohan for field inspection and report.**

23. SIA/KL/MIN/416162/2023, 2218/EC1/2023/SEIAA

Granite Building Stone of V.R. Ajayakumar at Block No. 27, Survey Nos. 16/1 of Ezhumattoor Village, Mallappally Taluk in Pathanamthitta District, Kerala (Fresh application)

Decision: The Committee examined the proposal and documents submitted by the proponent and found that the total mineable reserve is 1,10,740 MT and annual production is 27650 MT per annum for mine life of 4 years. The elevation difference is 105m MSL and 75m MSL. The project cost is 70 lakhs. The Committee noted the following:

1. The EMP need modification incorporating site-specific mitigation and management measures along with adequate budget provision.
2. CER need modification incorporating monitorable physical targets identified in consultation with the stakeholders.
3. Compensatory afforestation plan along with geo-coordinates of the proposed site for it and geo-tagged site photographs and ownership details/consent.
4. Detailed Drainage Plan
5. Depth to water table in the nearest dug well with relief of the well site.
6. Recently certified legible survey map from the Village office showing all the built structures within 200 m radius.

The Committee decided to invite the proponent for a presentation.

24. SIA/KL/MIN/417557/2023, 2227/EC6/2023/SEIAA

Application for Environmental Clearance for the Granite Building Stone Quarry of Sri. Abdul Hameed K P at Block No.227, Sy.Nos.55/1, 55/4, 50/1, 50/1-2, 50/1-3 in Urangattiri Village, Ernad Taluk, Malappuram (Fresh application)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 405958 MT and annual production is 40595 TPA. The mine life is 10 years. Highest elevation of the lease area is 205m above MSL and lowest is 160 m above MSL. The project cost is 1.5 crores. The Committee decided to entrust Dr. Gopinathan and Dr. C C Harilal for field verification and report. The Sub-Committee shall also evaluate the EIA and EMP report and their compliance to the ToR and incorporate the salient aspects in the FIR.

CONSIDERATION OF TOR PROPOSALS

1. SIA/KL/INFRA2/421264/2023, 2014/EC3/2022/SEIAA

Al-Azhar Medical College and Super Speciality Hospital, Re-Survey No.: 99/5, 100/1, 84/1, 84/3/4, 84/4/2, 84/3/5, 84/3/1, 84/1/1, 406/5, 406/1, 84/3/1, 84/4/1, 84/3/2, 404/1, 404/3, 88/3, 88/2, 88/1, 406/3, 406/6, 89/7, 82/2, 89/6, 398/3, 398/9, 405/1 Kumaramangalam Village, Thodupuzha Taluk, Idukki District, Kerala (FRESH application)

Decision: The Committee examined the proposal and observed that the proposal has to be treated under violation of EIA notification 2006 and it is required to invoke the the SOP for identifying and handling of violation cases. Accordingly, the Committee decided to approve Terms of reference for conducting EIA studies as per OM 28.01.2022 and 7.7.2021.

2. SIA/KL/INFRA2/421647/2023 , 2238/EC1/2023/SEIAA

Proposed Integrated Manufacturing Cluster (IMC) at Kannambra for Palakkad Node in Kerala Under Kochi-Bengaluru Industrial Corridor (KBIC) at Kannambra I village of Alathur Taluk in Palakkad District (FRESH application)

Decision: As invited Sri. Ajay Sharma Director, Sri. Santhosh Koshy, Managing Director of KICDCL and Sri. Neeraj Kumar, Nodal Officer KSIDC were present. The Committee heard the presentation and noted that the Kerala Industrial Corridor Development Corporation Ltd. (KICDCL)

has proposed an Integrated Manufacturing Cluster (IMC) at Kannambra for Palakkad Node in Kerala under Kochi-Bengaluru Industrial Corridor (KBIC) development project. The project is to be implemented by KICDCL, an SPV created as Joint Venture (JV) partnership between Government of India represented through NICDIT and Govt. of Kerala represented through Kerala Industrial Infrastructure Development Corporation (KINFRA). The project comprises Food and Beverages, Non – Metallic mineral Products, and Rubber and Plastic Products

The Committee based on discussions, decided to recommend Standard ToR for conducting the EIA studies along with the following additional studies:

1. Necessity and feasibility of primary treatment at the individual industry level prior to letting out the effluents to common treatment plant for improving efficiency.
2. Overall water use in the basin is to be examined to ensure that the drawl of water for industrial use will not cause shortage of water for use in agriculture and drinking water. Additional water conservation and harvesting measures are to be considered to overcome this problem.

3. SIA/KL/MIN/422416/2023 , 2240/EC1/2023/SEIAA

Granite Building Stone Quarry of M/s. Raveendra Rock Products Private Limited over an extent of 5.9086 Ha. at Re-Sy Block No: 27, Re-Sy. Nos: 132/2, 132/2-1, 132/2-2, 132/2-3, 137/1-2, 137/2, 137/3, 137/4, 137/5, 137/6, 137/7, 137/8, 137/8-1, 137/9, 137/10, 137/11, 137/12-1, 137/12-2, 138/3, 138/4, 138/5, 138/6, 138/7-2, 138/8, 139/2, 139/2- 2, 139/3, 139/4, 139/5, 139/6, 139/7, 139/7-1, 139/10 & 139/11 in Ezhumattoor Village, Mallappally Taluk, Pathanamthitta District (FRESH application)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and decided to recommend Standard ToR for conducting the EIA studies along with the following additional studies

1. Breach potential study.
2. Impact of vibration due to blasting on all the builtstructures within a distance of 500m from the project boundary.

PART 4

1. SIA/KL/MIN/185659/2020, 1858/EC1/2020/SEIAA

Expansion of Granite Building stone quarry of M/s. Chengalathu Quarry Industries for an area of 0.9900 ha at Sy. Nos. 575/1-3-6-2pt & 581/1-5-7pt in Konni Thazham Village, Konni Taluk, Pathanamthitta, Kerala (consolidated note from Smt. Beena Govindan as per 139th SEAC meeting)

Decision: The Committee discussed the observations of SEIAA in detail. The Committee noted that the proponent had obtained EC vide no. 77/SEIAA/KL/172/2013 for an area of 4.8493 ha which was valid up to 30.10.2018 which also included the 0.9900 ha covered under the proposed project. This EC was extended for one year up to 30.10.2019. When the application for extension of the EC for the full area of 4.8493 ha was processed by SEIAA (as per the direction of the Hon'ble High Court in WP(C) No. 5723 of 2019 dated 23.10.2019), mining lease was available only for an extent of 3.1473 (lease of 2.10 ha valid up to 3/5/2024 & lease of 1.0473 ha valid up to 7/2/2026). Taking this fact into consideration, the SEIAA recommended EC for five years only for the area which had valid mine lease ie. 3.1473 ha with separate mining plans for the two leases of 2.10 ha & 1.0473 ha. The EC was issued on 28-12-2019 with the validity of EC ending on 27-12-2024.

SEIAA while issuing the EC for 3.1473 ha in 2019 remarked that "in case the proponent wished to apply for permit in Survey Nos 575/1-3-2 and 581/1-5-7, he may submit a separate application for EC along with Letter of Intent issued by the Department of Mining & Geology". The Project Proponent has submitted an application for the expansion of existing EC (3.1473 ha) by adding 0.9900 ha and the total area becomes 4.1373 ha. A mining plan approved on 25/7/2018 for 0.9900 ha was also submitted.

The Committee observed that as per the EIA Notification, a cluster condition is applicable to mine leases or quarry licenses granted on and after 9th September, 2013. On verification of the Cluster Certificate, it is found that the Lease/ permit issued to two quarries within 500 m radius, i.e., M/s AS Granites (lease area 0.9 ha) and Sri. Thomas Mathai Chengalath (2.10 ha) were on 6.3.2012 and 27.4.2012 respectively. The area under these two leases are, therefore, not to be considered for assessing whether the present project attracts cluster condition. In view of this, the proposed quarry does not attract cluster condition.

The committee also observed that mining is undertaken since 2019 with two separate mining plans (which were submitted separately as directed by SEAC/SEIAA) using the EC for 3.1473 ha. Hence,

the committee finds that integrating the mining plans at this stage is not desirable. However, the Committee finds that a comprehensive EMP covering all the three lease areas owned by the proponent is essential. SEAC also concur with the opinion of the SEIAA that the Project Proponent has to submit the mandatory CCR from the IRO, MoEFCC, Bangalore.

In the above circumstances, the Committee decided to direct the proponent to submit the following subject to the concurrence of SEIAA.

1. CCR from IRO, MoEFFCC, Bengaluru
2. Comprehensive EMP covering the area the three mine leases owned by the proponent.

2. SIA/KL/MIN/239511/2021, 2096/EC4/2022/SEIAA (0.99 ha)

Environment Clearance for Granite Building Stone Quarry Project by Mr Biju O, Managing Director, Elayadam Constructions Company PVT. Ltd, in Resurvey Numbers 285/2 & 6 in Purameri Village, Vadakara Taluk, Kozhikode District, Kerala State over an area of 0.9999 Ha. (FIR Received)

Decision: The Committee examined the proposal and noted that the total mineable reserve is 358640MT and annual production is 120000MT for mine life of 4 years. The thickness of overburden is 1.5m. The elevation difference is 120m and 100m MSL 26m. A small portion of the proposed project area falls in moderate hazard zone. The Malabar wild life sanctuary is at 11.90km. The presentation of the proposal to the Committee was done in the 140th meeting the SEAC. The Sub-Committee during field verification observed the following:

1. The proposed project area is located on the top of a limb of a folded hill range.
2. An old quarry pit is located within the project area. Large boulders are accumulated in the old quarry pit.
3. Many laterite quarries are found nearby the proposed project location. Deep quarry pits are more in number.
4. Impounded water in the abandoned quarry pit is channelized through pipelines and is used for the irrigation at lower reaches.
5. Approach road to the project area is undeveloped with hairpin bends.

Hence Committee decided to direct the proponent to submit the following additional documents:

1. Letter from the WL Warden stating the distance of the proposed area from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and whether the site falls in the buffer zone or not.

2. Revised PFR as it is prepared without referring to DSR.
3. Revised EMP incorporating environmental issues identified in and around the site and site specific mitigation measures along with adequate budget.
4. Revised CER incorporating monitorable physical targets identified based on stakeholder consultation and a detailed plan of implementation along with proof of consultation.
5. Plan for the development of approach road by avoiding hairpin bends and providing fish belly for smooth traffic. Protective walls are to be constructed at regions, where the steepness is higher due to quarry pits.
6. Modified OB location plan (Instead of two OB dump location at higher elevated area single OB dump location at lower reach can be proposed)
7. Modified drainage plan with connectivity to the natural drainage.
8. Plan for the removal of larger quarried boulders spread over the old quarry pit.
9. Compensatory afforestation plan with geocoordinates and photographs of the area proposed.

3. SIA/KL/MIN/284240/2022 , 2079/EC4/2022/SEIAA

Environment Clearance for the Proposed Granite Building Stone Quarry Project of Sri. Safran Abdul Razack, at Re Survey No. 1293/2493, 1293/2495 Block No-01 in Ayyankunnu village, Iritty Taluk, Kannur district, Kerala State for an extent of 0.9270 Ha.(FIR Received)

Decision: The Committee examined the proposal and discussed the field inspection report and observed the following:

1. Proposed area falls on lower flank of a hill range.
2. Steep to very steep slope.
3. Land is under mixed trees with lemongrass.
4. A stream (seems to be perennial) drains through the south eastern part of the proposed area.
5. Banded iron exposures are observed at southern part just outside the proposed project area.
6. Soil thickness is thin to moderate.
7. Access road needs development.
8. Boulders spread over the area.

The Committee also noted the following shortcomings:

1. CER as per the OM of 2020 based on stakeholder consultation and with consent from beneficiaries
2. Site-specific EMP with appropriate budget provision and incorporating the CER
3. Modified drainage plan.
4. Location of OB dump with protection measures.

The project site seems to be environmentally very fragile as it is located in the middle of a moderate hazard zone surrounded by high hazard zone at a distance around 600m. The Ayyankunnu village is vulnerable to landslides as per the District Disaster Management Plan. **Based on discussions, the Committee decided to invite the Proponent for presentation.**

4. SIA/KL/MIN/404411/2022 , 2148/EC1/2022/SEIAA

Granite Building Stone Quarry of M/S Kottukappilly Sand & Metals Pvt. Ltd. over an extent of 2.1004 Ha at Re-Survey Block No. 39, Re-Survey Nos. 8/4, 8/5, 7/6, 8/10, 7/1 of Kizhakkanchery II Village, Alathur Taluk, Palakkad District, Kerala (Field Inspection Report received)

Decision: The Committee examined the proposal submitted for an area of 2.1004 Ha and discussed the field inspection report. The mineable reserve is 1558581 MT (57098.5625MTA) and life of mine is 12 years. The depth to watertable is 15m bgl and ultimate mine depth is 35m. The elevation difference is 112 to 97m. The nearest house is at 145.5m. The distance to Peechi Vazhani wildlife sanctuary is 4.6km. The Project cost is 2.1 Cr. The Committee observed the following :

1. A built structure (electrical room of crusher unit) is located at distance less than 50m from the project area.
2. Road connecting project area is narrow and top of abandoned quarry pit.
3. Most of the buffer area is rocky.

Based on discussions, the Committee decided to invite the proponent to present the proposal and seek seek the following details/clarifications

1. Letter from the WL Warden stating the distance of the proposed area from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and whether the site falls in the buffer zone or not.
2. Recently certified survey map from the concerned Village Office showing all the built structure, road, etc within 200m from the boundary of the project area
3. Compensatory afforestation plan including the geo-coordinates, geotagged photographs and ownership details of the site proposed

4. Modified drainage plan
5. As per the google image of December 2022, there are three quarries adjacent to the proposed site, two seems to be abandoned and one seems to be working. However, the Cluster Certificate dated 7.10.2022 submitted by the proponent states that there are no operational quarry within 500m. Therefore, clarification is required from the PP regarding the quarry seems to be working adjacent to the proposed site and details of the closure plan implemented for the other two quarries.
6. Haulage road seems to be dangerous for the transportation and therefore, it is to be clarified whether there are other roads or modification possible to the road.

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

Environment clearance in respect of the Proposed Granite Building Stone Quarry over an extent of 3.3314 Hectares in 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, at Valakom Village of Kottarakkara Taluk, Kollam District, Kerala State. by Mr. M. Aliyarkutty (FIR Received)

Decision: The Committee examined the proposal and discussed the field inspection report. It is noted that the mineable reserve is 10,66,580 MT and annual production is 1,54,093 TPA for mine life of 10 years. The depth to watertable is 7m bgl; 88m above MSL. The elevation difference is 120m to 80m above MSL. Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Revised CER as per OM dated 30.09.2020 of MoEF & CC incorporating monitorable physical targets evolved based on stakeholder consultation, proof of stakeholder consultation and adequate budgetary provision for the entire life of mine.
2. Compensatory afforestation plan incorporating the species of trees proposed to be planted, geo-coordinates of the proposed site, geo-tagged photographs of the proposed site, proof of ownership of proposed land
3. Revised EMP incorporating environmental issues identified, site-specific environmental mitigation measures, adequate budget estimates for implementation and maintenance for the entire life of mine
4. Report on the possibility of breach of water storage in the abandoned quarry and proposed mitigation measures, in case of breach, if any.

5. Detailed drainage plan incorporating garland canals, silt traps, siltation tanks, outflow channel and connectivity to natural drain
6. Report on the water requirement, source of water, source sustainability and source maintenance
7. Proposed sanitation and waste management measures
8. Proposed energy conservation measures.
9. Impact of vibration due to blasting as there many built structures in the vicinity of the proposed site

The Committee also observed that the depth of mining need to be limited to 90m above MSL and a buffer of 50m need to be maintained between the project boundary and crusher. The Committee also observed the desirability of providing temporary barriers at the boundary encountering the houses within a distance of 100m and usage of mats while blasting to reduce the noise level.

6. SIA/KL/MIN/422595/2023 , 2017/A2/2018/SEIAA

Application for Environmental Clearance for the quarry project of Sri.Najeebali M.K for an area of 1.8227 Ha at Sy.No.85 pt in Pulamanthole Village, Perinthalmanna Taluk, Malappuram

Decision: The Committee decided to adhere to its decision taken in the 138th SEAC meeting to recommend the item with the conditions stipulated therein.

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

1. SIA/KL/MIN/162964/2020 , 125/SEIAA/KL/2335/2013

Renewal / Extension of Environment Clearance for the Building Stone Mine (Minor Mineral Mining) project of M/s Valluvanad Granites is situated at Survey Nos. 2/2 & 5/2 in Village - Lakkidi-Perrur 1st, Panchayat – Lakkidi-Perrur, Taluk Ottapalam, District - Palakad, Kerala in an area of 4.8120 hectares. (Field Inspection Report received)

Decision: The Committee examined the proposal and discussed the field inspection report. The Committee observed that the area proposed for mining includes old working. Benches developed

are partial. When quarrying is progressing ultimate care should be taken for rectifying this mistake and maintain proper benching. Haulage road should be maintained properly. Develop channel way connecting siltation tank and natural drain. **In order to examine the documents in detail and suggest specific recommendations, the Committee decided to entrust the task to Dr. K N Krishnakumar.**

Other items:

The Committee considered the request from Proponents regarding the change of consultant/RQP during the process of appraisal. The Committee discussed the matter in detail and decided not to encourage such changes. However, if there are genuine cases, the Committee decided that the proponent may submit their written request to change the RQP/Consultant sufficiently in advance and Member Secretary, SEAC may permit the change in deserving cases with valid reasons.

The Committee decided to convene the 142nd meeting of the SEAC on the 11th & 12th of May 2023. The meeting ended at 4.00 pm.

Sd/
Suneel Pamidi, IFS
Secretary, SEAC

Sd/
Dr.Ajayakumar Varma
Chairman, SEAC

Sl.No.	Name	11.04.2023	12.04.2023	18.04.2023	19.04.2023
1.	Shri. Sheik Hyder Hussain	√	√	√	√
2.	Dr.A.Bijukumar.	√	√	√	X
3.	Dr.A.N.Manoharan	√	√	√	√
4.	Shri. M.Dileepkumar	√	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	√
13.	Shri.Suneel Pamidi,IFS (Secretary)	X	√	√	√
14.	Dr.R.Ajayakumar Varma (Chairman)	√	√	X	√