

**Private Land at Chadayamangalam Village, Kottarakkara Taluk,
Kollam (SIA/KL/MIN/432414/2023, 2288/EC2/2023/SEIAA)**

Decision : The Committee examined the request of the project proponent dated 08.09.2023 via email regarding the correction in ToR conditions for one of the additional studies, “Restoration plan for the adjacent mined out area and its implementation possibility and mechanism”. In their request, it is stated that there is no mined out area in their project site or within the 500m radius of the project site and therefore, they requested to remove the above said additional study from the ToR conditions. The Committee, once again examined the google map of the project site and its surrounding areas and observed that the area is covered dominantly with vegetation and there are patches exposed wherein certain areas seem to be mined out pits which may or may not be true in actual field condition. Therefore, the Committee decided to recommend correction in the additional studies incorporated in the ToR as “*Restoration plan for the adjacent mined out area, if any, and its implementation possibility and its mechanism, if applicable.*”

PARIVESH FILES

PART – 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 **Environmental Clearance for the proposed Residential Project of 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), in Olavana Village & Panchayth, Kozhikode Taluk & District
SIA/KL/INFRA2/416727/2023, 2226/EC4/SEIAA/2023**

Decision : The Committee verified the additional documents submitted by the project proponent and found that they are satisfactory, except the one regarding stormwater drainage. The proponent proposes to release the storm water to the public drain on the western side of the project site, adjoining NH 66. The cross section map of the road under development, currently, indicates that the highway is at an elevation of 100m and the access/service road at 99m. The bottom level elevation of the drain on the access/service road is 97.8 meter. The existing ground level of the project site (not marked) is 1½ to 2 meters below the bottom level elevation of the drain. In such a situation, the storm water from the project area will not get drained to the public drain naturally causing water logging. In the plan provided by the proponent, the front area (marked as PRO.YARD) is filled to attain a height of 100m. Therefore, the Committee decided to seek detailed storm water management plan for the site as well as for the upstream portion of the site, the latter due to the proposed land filling of the site.

Item No.2 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Babu N.P, Managing Partner, M/s. Grand Rock Products for an area of 0.8821 Ha at Sy.No. 157/3 in Vadakkanchery Village, Thalappilly Taluk, Thrissur**

Decision : The Committee examined the additional documents submitted by the project proponent and observed that the all the CER proposals are not incorporated in the EMP. The total mineable reserve is 2,50,658 MT and the mine life is 5 years. The project cost is 80 lakhs. The presentation was done in the 142nd SEAC meeting. **Based on discussions, the Committee decided to recommend EC for the mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The closure plan of the abandoned quarry should be implemented prior to the commencement of mining.
2. The green-belt should be developed prior to the commencement of mining. choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. CER Plan comprising solar energy installation, rainwater harvesting and sanitation facility and closure of the adjacent old abandoned quarry should be implemented within the first 2 years utilizing the projected outlay of Rs. 5 lakh or more and it should be operated and maintained for the entire period of mine till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.

13. Adequate energy conservation measures should be implemented including solar power installations at the site. At least 40% of the energy requirement shall be met from the solar power
14. Adequate facilities should be adopted to harvest the rainwater at the site as per the guidelines issued by the Central Ground water Authority.
15. 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.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.3 **Application for Environment Clearance for mining of M/s Perumannoor Granites Private Limited over an extent of 3.5238 Ha. at Sy No. 611/1A/19W/17, 611/1A/19W/19, 611/1A/83/13/16, 611/1A/84/14/23 & 611/1A/196/73/2. Keerampara Village, Kothamangalam Taluk, Ernakulam. (SIA/KL/MIN/267357/2022, 2034/EC3/2022/SEIAA)**

Decision : The Committee verified the documents submitted by the project proponent. As per the Cluster Certificate dated 04.09.2023 of Mining & Geology Department, there are four quarries with total area of 1.6795 Ha within 500 m radius which are reported to be not working but not closed by implementing mine closure plan. Since the quarries are not closed, it may have to be considered for the cluster situation. As per OM dated.01.07.2016, the stipulations of cluster condition is applicable only to the quarry licenses granted on and after 9.9.2013. In the present case, the validity of all the four quarries within 500m commenced before 9.9.2013 and therefore, it may not have to be considered for deciding cluster situation. All the additional documents sought are submitted by the proponent. The Committee noted that almost 80% of the proposed quarry area falls in moderate hazard zone. **The Committee decided to defer the proposal for a final decision in the next meeting.**

Item No.4 **Environmental Clearance for the building stone quarry of Sri.Raphy John Managing Partner, Hilltop Aggregates at Survey No. 381/6,381/59381/64,381/66 in Kanambra1 Village, Alathur Taluk, Palakkad District, Kerala for an Area of 2.3611 Ha SIA/KL/MIN/274473/2022 , 2075/EC1/2022/SEIAA**

Decision: The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The Peechi Vazhani Wildlife Sanctuary is at 3.1 km from the proposed area and the proponent has submitted the proof of application to NBWL for Wild Life Clearance. The total mineable reserve is 10,21,145MT and life of mine is 12 years. The nearest built structure is at 105m. The project cost is 2.5 crore. The site elevation varies from 74m to 104m above MSL and the mining is proposed upto 40m above MSL. The depth to water table is 13m bgl. The presentation was done in the 141st SEAC meeting and the field inspection was carried out on 14.06.2023. Based on discussions, **the Committee**

decided to recommend EC for the mine life of 12 years subject to the following Specific Conditions in addition to the General Conditions:

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. Considering the depth to water table, the depth of mining should be limited to 60m above MSL instead of the proposed 40m above MSL.
4. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
5. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from solar power
14. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
15. 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.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.5

Environmental Clearance for the proposed Granite Building Stone Quarry at Block No. 37, Re-Survey Nos. 37/5-2, 37/5-3, 37/4-2, 37/4-1, 37/3-2-2, 37/3-1, 37/3- 2, 37/13-1- 2, 35/2-2, 35/14, 35/15, 35/15-2, 36/3, 36/2-2, 35/13, 36/4 of Velinellur Village, Kottarakkara Taluk, Kollam (SIA/KL/MIN/275539/2022, 2068/EC2/2022/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 4,04,689.245 MT with an average annual production of 80,938 TPA. The mine life is 5 years. The Project cost is Rs.1,55,00,000/-. The field inspection was carried out on 13.05.2023 and no presentation was done as all the clarifications were provided during the field level interaction and while submitting additional documents. The maximum depth of mining is 60m above MSL and the depth to water table is 57m above MSL. Based on detailed discussion, **the Committee decided to recommend EC for the mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions;**

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.6 Environment Clearance application for the mining of M/s Mining Aggregates Private Limited for an area of 4.7998 Ha. at Re-Sy Block No.:01, Re-Sy No.: 23/1 pt427, 23/1 pt426, 23/1 pt424 & 23/1 pt375, Kolathur Village, Kasaragod Taluk, Kasaragod, Kerala (SIA/KL/MIN/277481/2022, 2118/EC2/2022/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found that mitigation measures for the adverse impacts on the river and riverine ecology proposed are not satisfactory. The quarry is 60 m away from the river Chandragiri, which is the main drinking water source of Kasargod district. Further, there is a check dam at 2 km downstream of the proposed site, from where water is extracted for drinking water supply. The proposed mining activities will be spread over an area of 4.7998 Ha area from where the extraction will be more than 20 lakh ton in 7 years. The proposed site is located on the side of hill with a relative relief of around 100m with moderate slope and significant thickness of soil. The site is also located near a meandering point of the river. The buffer between the river bank and project boundary is not adequate to contain/assimilate the pollution potential. Therefore, the proposed site is highly vulnerable from the point of view of soil erosion, pollution of drinking water source, loss of vegetation etc. Hon'ble Supreme Court in a judgement on 3.6.2022 in IA No. 1000 of 2003 underlined the necessity of following the Precautionary Principle as there may arise situations where there may be irreparable damage to environment after an activity is allowed to go ahead and if it is stopped, there may be irreparable damage to economic interest. The Hon'ble Court held that in case of a doubt, protection of environment would have precedence over economic interest. It was further held that precautionary principle requires anticipatory action to be taken to prevent harm and that harm can be prevented even on reasonable suspicion. **The Committee observed that this is one such case where principle of precaution applies and therefore, decided to recommend rejection of the proposal invoking the Precautionary Principle.**

Item No.7 Environmental Clearance to Sri. P. P Asharaf for Granite Building Stone Quarry over an extent of 0.9691 Ha at Survey No.305/1A and 305/1B in Thrithala Village, Pattambi Taluk, Palakkad District

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve of 270400 MT. The mine life is 5 years. The project cost is 1.24 crore. The nearest building is at 71 m. The presentations were done in the 140th & 148th SEAC meeting. Based on discussions, **the Committee decided to recommend EC for the mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Considering the depth to water table, the depth of mining should be limited to 60 m AMSL.
2. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.

15. 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.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.8 **Application for Environmental Clearance for the Building Stone Mining (Quarry) project of Mr. Kurian Jose, for an area of 4.0425 ha at Sy. Nos. 340/1AS/75/6/2, 340/1A/S/75/6/3/2, 340/1A/S/75/6/9, 340/1A/S/75/6/10, Kottappady Village, Kothamangalam Taluk, Ernakulam (SIA/KL/MIN/291267/2022, 2116/EC3/2022/SEIAA)**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 25,11,088 MT (2,40,000 TPA) and Mine life is 12 years. The project cost is 7.03 crore. Thattekkad Bird Sanctuary is at a distance of 8.4 km from the project site. The proponent has submitted the proof of application to NBWL for Wild Life Clearance. The presentation was done in the 142nd SEAC meeting and the field inspection was carried out on 29.12.2022. Based on discussions, **the Committee decided to recommend EC for the mine life of 12 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Depth of mining should be limited to 35m above MSL
2. Fencing should be done for the entire area
3. Compensatory afforestation should be done as per the plan given
4. The endemic plants shall be protected as the plan given
5. Solar power has to be used for office purpose and street lights
6. Rainwater harvesting tank has to be constructed in the first year itself
7. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
8. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
9. 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.
10. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
11. 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).
12. 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.

13. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
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.
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).
16. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
17. 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
18. 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.
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.9

Environment Clearance for the Granite Building Stone Quarry Project of Sri.Rejesh Abraham, M/s Alphonsa Granites for an area of 0.7879 Ha at Sy. No.127 pt in Thrikkur Village, Mukundapuram Taluk, Thrissur (SIA/KL/MIN/35199/2019, 1461/EC2/2019/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The life of mine is 3 years. The distance to the nearest built structure is 121.2m. The field inspection was carried out on 16.05.2022. Based on discussions, **the Committee decided to recommend EC for the mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).

6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.10 **Granite Building Stone Quarry of Sri. Udayan K at Block No. 25, Re-Survey Nos: 64/1, 65/3, 65/4, 66/2, 66/2-1 in Enadimangalam Village, Adoor Taluk, Pathanamthitta.**
SIA/KL/MIN/401892/2022, 2126/EC1/2022/SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent. **Based on discussions, the Committee decided to direct the project proponent to submit the ownership details of land proposed for the compensatory afforestation.**

Item No.11 **Environmental Clearance for the Granite building stone quarry, of Sri. Joseph Varkey, for an area of 0.9407 Ha. at Block No: 70, Sy. Nos: 23/1, 23/2, Poonjar Village, Meenachil Taluk, Kottayam**
SIA/KL/MIN/407901/2022, 1812/EC3/2020/SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 160163.11 MT. The life of mine is 5 years. The nearest built structure is at a distance of 62.5 m. The project cost is 1 crore. The presentation was done in the 144th SEAC meeting and the field inspection was carried out on 26.07.2023. Based on discussions, **the Committee decided to recommend**

EC for the mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:

1. Water level of bunded water storage should be regulated during the working of the quarry and adequate care should be taken to drain the water without affecting the houses on the downward side
2. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
15. 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.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.12

Application for Environment Clearance of Sri. M. Aliyarkutty for 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. (SIA/KL/MIN/408193/2022, 2169/EC2/2022/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 10,66,580 MT with annual production of 1,54,093 TPA. The life of mine is 10 years. The nearest house is at a distance of 58m. The project cost is 3.4 crore. The presentation was done in the 148th SEAC meeting and the field inspection was carried out on 12.03.2023. Based on discussions, **the Committee decided to recommend EC for the mine life of 10 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The depth of mining should be limited to 90m above MSL.
4. The Crusher owned by the Proponent is located at distance of 32m from the proposed project boundary and therefore buffer of 50m should be provided between the boundaries of crusher and proposed mine.
5. Temporary barriers of height 5m should be erected at the boundary encountering the houses within a distance of 100m
6. Blasting mats should be used to contain the blasts, prevent fly rocks, suppress dust, reduce noise level and minimize vibration impact
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
9. 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).
10. 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.

11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
13. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
14. 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. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
16. 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
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
18. 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.
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Vide Proceedings of the District Collector, Kollam dated 14.7.2022, consequent to the Order of the Hon. High Court of Kerala dated 30.3.2022 in WP (C) 2050/22, it is recommended that while considering the application for EC, the SEIAA may consider the complaints of the Complainants. **Therefore, the Committee decided to request the SEIAA to hear the Complainants Mr. Ratheesh kumar and Smt. Krishna A.R. prior to the issuance of EC.**

Item No.13

**Granite building stone quarry project of Shri. N. V. Ashok Kumar, Director, 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
SIA/KL/MIN/409918/2022, 2188/EC1/2023/SEIAA**

Decision : The Committee verified the additional documents submitted by the project proponent. The mineable resource is 7,97,899 MT and life of mine is 9 years. The maximum production proposed is 1,26,918 TPA. The site elevation vary from 120m to 105m and maximum depth of mining is 75m. The depth to water table reported in the nearest well is 54m above MSL. The site for storage of top soil and over burden is provided on the eastern side of the proposed site adjacent to the project boundary connecting boundary pillars C1 and C13. This is a gently sloping area and on the east of it there are about 10 houses at a distance varying from 82 -88m. It is not advisable to have topsoil/overburden dump of about 7m height at that location. **Based on discussins, the Committee decided to seek the following additional documents.**

1. Revised topsoil/Overburden storage area and the protection plan for the storage area
2. Plan for temporary barrier between boundary pillar C1 and C13 where there are many houses within 100m distance from the project boundary
3. Recent Cluster Certificate

Item No.14

Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Pradeep K., for an area of 0.3880 Ha. in Block no:109, Re-Survey No. 53/135 of Kandamkunnu Village, Thalassery Taluk, Kannur (SIA/KL/MIN/412267/2022, 2208/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The targeted production is 33,675MT. The life of mine is 4 years. The project cost is 11 lakhs. The presentation was done in the 144th SEAC meeting. Based on discussions, **the Committee decided to recommend EC for the mine life of 4 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Mining should not be done beyond a depth of 5m below ground level
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum buffer distance of 50m from any civil structure should be kept from the periphery of the project area.
12. 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.
13. 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.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 1 year from the date of EC.

16. 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)

Item No.15 **Environmental Clearance to Sri. Suhaib Kunnan for Laterite (Building Stone) Quarry over an area of 0.9588 in Re-Survey Nos: 7/2-6, 7/2-12, 7/2-13, 7/2-20 of Koppam Village, Pattambi Taluk, Palakkad**
SIA/KL/MIN/413609/2023 , 2204/EC1/2023/SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory except the proposal for Corporate Environmental Responsibility. **Therefore, the Committee decided to direct the Proponent to revise the CER as per the guidelines uploaded in the SEIAA website and submit it along with proof of stakeholder consultation.**

Item No.16 **Granite Building Stone Quarry of Jose M K, Managing Partner, M/s. Christuraj Granites, for an area of 0.8189 Ha at Re. Survey No. 35/3,35/3-1,35/3-2 located at Thalappulam Village, Meenachil Taluk, Kottayam**
[SIA/KL/MIN/413729/2023, 2235/EC3/2023/SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 1,77,198 Ton and average annual production is 44,299.5 TPA. The mine life is 4 years. The project cost is 1 crore. The field inspection was carried out on 26.07.2023. The site is located on the summit of an elongated ridge trending NNW and SSE with relative relief of about 150m from the nearest valley as per satellite imagery. The site falls in the middle of a moderate hazard zone and there is requirement of effective hazard mitigation. Vide GO (Rt) No. 542/14/ID dated 26.5.2012, the proponent has to obtain the approval of the district level crisis management committee for mining. **Based on discussions, the Committee decided to invite the Proponent for presentation.**

Item No.17 **Environmental Clearance to Sri. Pradeep Kumar S, Managing Partner, M/s RKP Minerals and Metals Private Ltd for Granite (Building stone) quarry project over an area of 0.4790 Ha 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**
SIA/KL/MIN/414351/2023, 2210/EC1/2023/SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent and observed that the area proposed for the project is less than 0.5 Ha. The Committee examined the environmental feasibility of mining of granite building stones in a lease area of 0.5 Ha or less and found that it is difficult to ensure required environmental

safeguards for mining in such small areas. In other words, if mining is permitted in a lease of 0.5 Ha or less, the stipulated environmental safeguards may be compromised to make the project viable. The KMMC Rule 37(1) also states that the quarrying lease shall be a contiguous unit and shall not be less than one hectare. **In the circumstance, considering the detailed report approved by the SEAC namely “Minimum area required for mining granite building stones in Kerala ensuring environmental safeguards” regarding the viability of mining in area less than 0.5 Ha, the Committee decided to recommend rejection of the proposal.**

Item No.18 Application for Environmental Clearance for the proposed Granite Building Stone Quarry of Sri. A. H. Sheriff Survey Nos. 1087/1A2 at Mulavoor Village, Muvattupuzha Taluk, Ernakulam (SIA/KL/MIN/416051/2023, 2219/EC3/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and observed that a crusher is located at 5m from the boundary pillar BP1 and a workshop is located from a distance of 15m from boundary pillar BP2. The elevation of the site vary from 55m to 75m and the depth to water table is 8m bgl at a distance of 106.5m and elevation of 37m above MSL. If the depth to ground water table is extrapolated to the project boundary, the groundwater table will be encountered at a depth of 47m above MSL. Though the structures at 5m and 15m respectively from BP1 and BP2 are not residential in nature, there will be human presence as they are crusher and workshop. Therefore, there is risk involved to the people working there as well as to the building structure itself. Therefore, from the point of view of precautionary principle, it is necessary to keep a buffer distance of at least 50m from such structures. The total mineable reserve is 2,00,280 MT with an annual production of 40056 TPA. The mine life is 5 years. The presentation was done in the 146th SEAC meeting and the field inspection was carried out on 20.05.2023. Based on discussions, **the Committee decided to recommend EC for the mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Mining should be permitted only after leaving 50 m from the crusher unit and the workshop building
2. The depth of mining should be limited to 49m above MSL considering the possibility of groundwater intersection.
3. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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 nearby natural drain after adequate filtration
6. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak

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

7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
8. 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.
9. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
11. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
12. 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).
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. 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
15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
16. 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.
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.19 **Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ummer for an area of 0.9766 Ha at Block No.79, Sy No.434/2-6, in Wandoor Village, Nilambur Taluk, Malappuram. (SIA/KL/MIN/416864/2023, 2252/EC6/2023/SEIAA)**

Decision : The Committee verified the additional documents submitted by the project proponent and observed that the mining has to be limited to 45 m amsl considering the groundwater intersection. The project proponent has agreed to limit the mining to 45 m amsl and reduce the mine life from 5 years to 4 years. It is also found that there is no proof of stake holders with regard to CER activities. There are three buildings seen within the site. **Hence the Committee decided to direct the proponent to submit the proof of stakeholder consultation with regard to the CER activities and clarification regarding the availability of land for mining considering the building in the proposed area.**

Item No.20

Environment Clearance for the Granite Building Stone Quarry project of M/s RDR Crushers Pvt. Ltd. is situated at Block No.48, Re-Survey 404/1, 404/2, 404/2-1, 404/2-6, 404/3, 404/3-2, 404/4, 404/4-2, 404/4-2-2, 415/2, 415/2-2, 415/3, 415/6, 415/6-2, 415/7, 526/1 of Chengalam East Village of Kottayam Taluk, Kottayam, (SIA/KL/MIN/417135/2023; 2233/EC3/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and observed the following shortcomings;

1. CER is not submitted
2. Recent Cluster Certificate is not submitted
3. The depth to groundwater table is not provided.
4. Compensatory afforestation plan is inadequate.
5. Proof of ownership details for the site proposed for compensatory afforestation not submitted.
6. Detailed drainage plan is not submitted

The Committee decided to direct the project proponent to submit the above documents/details.

Item No.21

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

Decision : The Committee verified the additional documents submitted by the project proponent and the Committee observed the following shortcomings;

1. No Cluster Certificate is found submitted
2. Nearest building is at a distance of 61 m and other 7 buildings within 100m
3. First Order stream through the middle portion of the quarry site
4. Thick vegetation
5. Trees already present in the Compensatory afforestation plan
6. Approach road less than 4m

The Committee entrusted Dr.R.Ajayakumar Varma and Dr.Mahesh Mohan for site inspection.

Item No.22

Application for Environmental Clearance for the Granite Building Stone Quarry of Sri. A M Chackochan, M/s Aishwarya Granites for an extent of 0.6803 Ha at Re-Sy. No. 121/2 part of Elamadu Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/422678/2023 , 1675/EC2/2020/SEIAA)

Decision : The Committee verified the documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 1,20,750 MT. The mine life is 3

years. The project cost is 35 lakh. The proponent demolished the two buildings and M sand unit within 50m. The Committee heard the presentation in its 148th meeting. The field inspection was conducted on 09.05.2022. **Based on discussion, the Committee decided to recommend EC for the mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions;**

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.23

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

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 2,10,429 MT. The life of mine is 3 years. The project cost is 1 crore. The nearest built structure is at 110.8m. The presentation was done in the 148th SEAC meeting. Based on discussions, **the Committee decided to recommend EC for the mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.24 **Application for the Environmental Clearance for the building stone quarry at Block No:10, Re.Survey No. 509/11, 509/11-2, 509/12 of Vengoor West Village, Kunnathunad Taluk, Ernakulam, SIA/KL/MIN/425832/2023 2270/EC3/2023/SEIAA**

Decision : The Committee verified the additional documents submitted by the project proponent and observed the following;

- 1) CER is not satisfactory, the beneficiary details, location of implementation of CER etc are not provided
- 2) The site-specific revised EMP is not submitted.

Hence the Committee directed the project proponent to submit the above documents.

Item No.25 **Environmental Clearance to Sri. Abdul Latheef. C. M for Ordinary clay mining project over an extent of 0.1215 Ha, Re Survey No-642/40, Re Survey Block No-29 in Kavasseri-1 Village of Alathur Taluk, Palakkad SIA/KL/MIN/428820/2023, 2268/EC1/2023/SEIAA**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 4860 MT. The life of mine is 1 year. The project cost is 15 lakh. The nearest building is at 52.9 m. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

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

Decision : The Committee verified the hearing note submitted by the project proponent and the complainant. The Committee decided to examine the complaints by visiting the site. **Accordingly, the Committee decided not to entrust Dr.R. Ajayakumar Varma, Er. M. Dileepkumar and Dr. Mahesh Mohan for conducting the field inspection and report.**

Item No.27 **Application for Environmental Clearance for the granite building stone quarry project Sri.Muhammed, Managing Director, M/s Vettakode Granite Pvt. Ltd for an area of 3.3624 Ha at Sy.No.247/1,247/2-1, 274/3, 275/2 in Anakkayam Village, Ernad Taluk, Malappuram (SIA/KL/MIN/66304/2019, 1514/EC3/2019/SEIAA)**

Decision : The Committee examined the additional documents/details submitted and found that it requires detailed evaluation. **Therefore, the Committee decided to entrust**

Dr.R.Ajayakumar Varma and Mr. Sheik Hyder Hussain to evaluate the details submitted and report.

**Item No.28 Environment Clearance for proposed Expansion of Mixed Use Township development project to be developed by M/s Calicut Landmark Builders & Developers (India) Pvt. Ltd. at Re-Sy. No. 27/3, 32/1, 32/4, 32/5, 31/4, 31/7, 31/8, 31/9, 35/1B (part), 30/4C, 31/5, 31/6, in Pantheerankavu Village, Olavanna Panchayat, Kozhikode Taluk & District - Judgment dated 11.09.2023 in Appeal No. 05/2022 (SZ) before the Hon'ble NGT, & WP(C) No. 30399/2023 & WP(C) No.32797/2023 before the Hon'ble High Court
SIA/KL/MIS/73563/2022 , 1193/EC2/2018/SEIAA**

Decision : The EC issued to the building project to which expansion is proposed is set aside by the Hon'ble NGT vide its Order dated 11.09.2023 in Appeal No.05/2022 (SZ). **Therefore, the Committee decided to refer the matter to the SEIAA for direction whether to continue with the appraisal of the application for expansion of the project or not.**

PART 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 Environmental Clearance for the Expansion of Santhi Hospital Project at Survey Nos. 22(22/66,22/67), 21/3(21/33), 21/3(21/36), 21/3(21/27), 21/3(21/37), 14/2(14/13), 21/3,2(21/38,21/82), 17/7, 17/4(17/23,21), 14/2(14/15), 14/2(14/23), 21/3(21/34), 22/2(22/68), 21/3(21/28), 14/2(14/14), 14/2(14/12), 21/32(21/83), 21/3(21/87), 21/3(21/29), 21/3(21/30,21/31) in Puthur Village, Thamarassery Taluk, Kozhikode (SIA/KL/INFRA2/402758/2022 , 2139/EC4/2022/SEIAA)

Decision : The Committee discussed the field inspection report and decided to **direct the proponent to submit the following additional documents.**

1. Detailed plan for adequate parking facilities as per norms considering the 19 separate buildings, some of which are small and temporarily built, spread all over the project area and the congestion for vehicle movement during emergencies.
2. Explanation for the ongoing constructions prior to obtaining EC as there is construction activities in front of Block A.
3. Integrated development plan incorporating the additionally purchased 34 cents of land adjoining the project site and modification of the proposal, if any.
4. Detailed plan for road connectivity to all the built structures along with the type and width of the road and setbacks with the buildings to facilitate obstruction-free movement of rescue vehicles during emergencies.
5. Details of accommodation and other facilities proposed to be provided for 50 workers during the construction phase at the project site.

6. Detailed drainage map indicating the layout of stormwater drains, locations of silt traps, collection sump, settling pond, if required, and overflow to the local drainage network
7. Protection measures proposed for safeguarding the well/storage tank within the project site for preventing contamination.
8. Technical details and drawings for the proposed stormwater management (stormwater drain & recharge pits) in the EMP wherein an amount of Rs. 48,80,000 (with a recurring expenditure of Rs. 1,80,000) is earmarked.
9. Details of water treatment measures proposed as the test results of water samples indicate higher extent of E. coli content in most of the water samples.
10. Details of rainwater harvesting proposed, storage and distribution plan and the treatment proposed for the harvested water, if any.
11. Comprehensive water budget considering all the water sources including 5 open wells, 4 bore wells, pond and rain water storage and the yield characteristics of the sources based on pump tests, wherever applicable.
12. Detailed plan for treatment and management of biodegradable and non-biodegradable waste generated.
13. Alternate plan for the treatment of biodegradable waste that will have differential digestion properties.
14. Detailed proposal for the management of construction and demolition waste in accordance with the relevant rules for the same
15. Revised CER proposal as per norms and guidelines uploaded in the website of SEIAA-Kerala.
16. Explanation for the discrepancy in the extent of the built-up area, proposed area, and total area of the project in the parivesh portal and documents submitted by the proponent.
17. KML file as it is found missing or defectively uploaded.
18. Clarification on existing STP, and the measures proposed to be adopted for ensuring recycling and reuse of water in compliance to PCB norms.

It is also necessary for the Proponent to ensure the following specific conditions during the construction and operation phases.

1. Climate-responsive design as per Green Building Guidelines in practice
2. Compliance to green guidelines published vide GO (MS) No. 39/2022/LSGD dated 25.2.2022 of the Government of Kerala.
3. Green belt surrounding the campus, avenue tree planting along the roads, and garden development using native species.
4. Covering of exposed roof area and covered parking with material having a high solar reflective index
5. Building design should cater to differently-abled citizens
6. Ensuring storm water discharge through natural drain
7. Preventive measures for non contamination of the natural drain that receive the storm water drain
8. Enhance carrying capacity of the natural drain to contain the peak flow from the

project area.

9. Providing adequate safety gadgets and instruments to the workers
10. Periodic checkups and health management measures for the labourers.
11. Adoption of water-efficient plumbing features
12. Compliance to Energy Building Code
13. Measures for improving energy conservation.
14. Compliance to the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996

Item No.2 Environmental Clearance for the Proposed Granite Building Stone Quarry Project of Sri.Ashraf.P at Re.Sy.No.172 in Kodyathur Village, Kozhikode Taluk, Kozhikode District, Kerala (SIA/KL/MIN/138725/2020 1653/EC4/2020/SEIAA}

Decision : The Committee discussed the field inspection report conducted on 05.08.2023 and decided to **direct the proponent to submit the following documents.**

1. Revised comprehensive EMP incorporating spot specific mitigation measures as well as considering the vulnerability and accident proneness of the site due to the adjacent moderate hazard zone in the eastern and northern part of the proposed site.
2. Details and distance to the ecologically sensitive areas
3. Legible Non assignment certificate
4. Revised project cost.
5. Detailed drainage plan.
6. OB dumping location and protection measures.
7. Plan for access road development.
8. Revised project cost.
9. Detailed CER proposal as per the guidelines uploaded in the SEIAA-Kerala web site.
10. Compensatory afforestation plan with geocoordinates of location and site photographs

Item No.3 Environmental Clearance for the Granite Building stone quarry of Sri. N.C. Abdul Majeed ,Managing Partner of Mukkom Granites at Re Survey No: 5/5A2 (5/4730, 5/4731) in Kavilumpara Village, Vatakara Taluk, Kozhikode, Kerala for an area of 0.9467Ha SIA/KL/MIN/142276/2020 , 1806/EC4/2020/SEIAA

Decision : The Committee discussed the field inspection report conducted on 05.04.2023 and observed the following;

1. Proposed site form part of a highly hazard prone area all around with steep slopes and hillocks.
2. The proposed site is falling in the middle portion of the side slope of a hill with steep slope.
3. There are built structures close to the proposed site, especially near to BP2 and BP3. A small shed is also seen near to the project site, in the lower reaches.
4. A seasonal stream is noticed in the neighbourhood.

5. Geologically, the rocks are highly jointed and fractured
6. Project area is characterized by high extent of natural vegetation, represented by diverse species
7. Entire site falls in a moderate hazard zone in continuity with high hazard zone. The high hazard zone is located at a distance of 96.45 meters from the project site.

Considering the hazard vulnerability and ecological sensitivity of the area, any intrusive activity such as mining will adversely affect the geo-environmental settings of the area. Therefore, **the Committee decided to recommend rejection of the proposal invoking Precautionary Principle.**

Item No.4 Environmental Clearance for the proposed granite building stone quarry of Sri. Aboobacker. P.M, Managing partner, M/s M A Granites in Re Survey No: 84/1, 84/2B Resurvey Block No: 1 Balussery Village, Koyilandy Taluk, Kozhikode SIA/KL/MIN/166371/2020 , 1758/EC4/2020/SEIAA

Decision : The Committee discussed the field inspection report conducted on 05.08.2023 and decided to **direct the project proponent to submit the following additional documents.**

1. Detailed CER proposal with locations earmarked for the installation of street lights in Balussery Grama Panchayat.
2. Proof of stakeholders consultation with regard to the the CER proposal
3. Compensatory afforestation plan alongwith geotagged photographs of the proposed site, ownership details of the site etc..
4. Plan for additional protection measures along the boundary between BP2, BP3 and BP4 where old quarry pit walls of about 15 to 20m exist.

Item No.5 Environmental Clearance for the extraction of Granite Building Stone of Sri. Siraj Hussain at Re-Sy:-281/2-3 of Mundakkayam Village, Kanjirappally Taluk, Kottayam (SIA/KL/MIN/176680/2020, 1877/EC3/2021/SEIAA)

Decision : The Committee verified the hearing note submitted by the project proponent and observed that the project proponent submitted NOC from the District Crisis Management Committee. **The Committee decided to entrust Dr.R.Ajayakumar Varma, Dr.Mahesh Mohan, Dr.K.N.Krishna kumar and Sri.Sheik Hyder Hussain to conduct one more field verification and report for the Committee to take a final decision.**

Item No.6 Environmental Clearance for the Granite Building stone quarry of Sri.Biju. O, M/s Elayadam Constructions Pvt Ltd for an area of 0.9999 ha, at Sy. No. 285/2,6 in Purameri Village, Vadakara Taluk, Kozhikode SIA/KL/MIN/239511/2021 , 2096/EC4/2022/SEIAA

Decision : As observed by the SEIAA in its 130th meeting, the part of the project area falls in a moderate hazard zone, therefore the proponent needs to obtain NOC from the District level Crisis Management Committee. The Committee also examined the possibility of groundwater intersection due to the mining beyond 10m below ground level. The Committee observed that the proposed project area is located on the top of the limb of a folded hill range. The water level shown as 10m below ground level is located in the valley portion, 370 m away from the project boundary. The sub committee, who conducted the field level appraisal, submitted that they have examined the possibility for intersection of the groundwater table during the mining process and found that such a situation does not arise considering the hydrogeological setting of the site and proposed mine plan. **The Committee discussed these aspects and decided to recommend EC for a mine life of 4 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The quarrying should be permitted only after getting the approval of the district level crisis management committee for mining constituted vide GO (Rt) No. 542/14/ID dated 26.5.2012 as the site is located in moderate hazard zone as given in HSAK, 2014.
2. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Overflow water from the siltation pond should be discharged to the nearby 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 gabion wall should be provided for the topsoil and overburden storage sites
9. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. Adequate sanitation, waste management and 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
16. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR

Item No.7 Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri.Sajeer K.T for an area of 1.2008 Ha at Re.Survey No. 3/4, 3 in Trikkalangode Village, Ernad Taluk, Malappuram. (SIA/KL/MIN/278920/2022, 2091/EC6/2022/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total Mineable reserve is 501090 MT and Mine life is 12 years. The Project cost is Rs.2,00,00,000/-. The Committee heard the presentation during 146th meeting. The field inspection was conducted on 25.03.2023. **Based on discussions, the Committee decided to recommend EC for the mine life of 12 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Adequate safeguard measures should be taken to avoid risk to the built structures downstream, prior to the commencement of mining.
2. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancing properties etc.
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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR

9. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
15. 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.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

Item No.8 Environmental Clearance for the Granite Building Stone Quarry project of M/s. Pala Metals and Sands Pvt Ltd, over an extent of 9.6560 Ha. (23.8599Acres) Re – Survey Block No.34, Re -Sy.No. 126/1, 128/1, 128/1-1, 128/2, 128/3,128/3- 1, 128/3-2, 128/4, 129/4, 126/2, 126/5, 127/2, 132/8,129/1, 129/1-1, 129/2, & 129/3 Bharananganam Village, Meenachil Taluk, Kottayam, Kerala (Evaluation Report received) [SIA/KL/MIN/36040/2019, 1374/EC2/2019/SEIAA]

Decision : The Committee discussed the evaluation report of the additional documents submitted by the project proponent. The Committee noted that a portion of the proposed site falls in moderate hazard zone and therefore quarrying should be permitted only after getting the approval of the district level crisis management committee for mining constituted vide GO (Rt) No. 542/14/ID dated 26.5.2012. **The Committee decided to direct the Proponent to submit the following details/documents.**

1. Revised EIA/EMP report incorporating the details/findings/recommendations of studies conducted as part of the four additional specific studies proposed in the ToR. This is not complied with satisfactorily and recommendations/ management strategies are not incorporated as required.
2. Geotagged photographs showing the properly fixed boundary pillars
3. Sanitation and waste management measures
4. Modified CER in the following lines
 - a. The selection process for indentifying the poorest of the poor beneficiary from the list prepared for Kerala Life Mission Housing Scheme for providing financial support earmarked as part of CER.

- b. The location and beneficiary for the installation of rainwater harvesting systems and open well proposed as part of drinking water supply
- c. The details regarding the support proposed to Government LPS Elappady, Anganwadi Alamatton , Nehruji Library Alamattom.

Item No.9 Application for Environmental Clearance for the proposed Laterite building stone quarry project of Sri. Sekkeeb Pullanipuram for an area of 0.1942 Ha at Re-Sy No- 1/3A1 in Melmuri Village, Tirur Taluk, Malappuram. SIA/KL/MIN/405772/2022, 2181/EC6/2023/ SEIAA

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The mineable reserve is 18,691 MT and the Mine life is 1 year. As per the application, project cost is 5.65 lakh. The Committee heard the presentation in its 144th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.10 **Environmental Clearance for the Proposed Granite Building Stone Quarry Project of Sri.Rajesan.K, Managing Director, M/s Kodancheri Granites and Stones Pvt.Ltd, at Re-Survey Nos.159/3208, 159/3209, 159/5172, 159/8673, 159/8746, 159/8747, 159/8556, 159/8557, 159/8709, 159/4875, 159/7525, 159/8745 in Nellipoyil Village, Thamarassery Taluk, Kozhikode SIA/KL/MIN/406104/2022 2173/EC4/SEIAA/2022**

Decision : The Committee examined and discussed the field inspection report conducted on 05.08.2023 and observed that the site is located on top of a residual ridge trending north-south with very steep side slopes. It is also observed that the area is fully in a moderate hazard zone. The nearest building is at 50 m. The site is characterized by very rich in biological habitat. The Committee also examined the additional details submitted including the report of the NIT, Surathkal regarding the slope stability. The Committee observed that the area is highly vulnerable from the point of view of land and biological environment. The Committee noted that quarrying can be permitted only after getting the approval of the district level crisis management committee for mining constituted vide GO (Rt) No. 542/14/ID dated 26.5.2012 as the proposed site falls in moderate hazard zone. The Committee also observed that the site is highly vulnerable and need to exercise precaution while considering environmental clearance. **The Committee decided to hear the proponent.**

Item No.11 **Environmental Clearance for the Proposed Laterite building stone quarry of Sri. Abdul Hameed at Re-Survey Block No.005, Re Survey No.53/1A of Kakkodi Village , Kozhikode Taluk, Kozhikode- SIA/KL/MIN/410409/2022, 2229/EC4/SEIAA/2023**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The video submitted is not viewable. Hence, **the Committee decided to direct the project proponent to submit the video showing the entire area by mail along with additional site photographs.**

Item No.12 **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 (SIA/KL/MIN/410913/2022, 2215/EC/2023/SEIAA)**

Decision : The Committee discussed the field inspection report conducted on 30.07.2023 and decided to direct the project proponent to submit the following documents.

1. Safeguard measures proposed to avoid accidents and risk due to the the steep vertical wall of the abandoned quarry pit, which is located at the eastern side of the proposed quarry

2. Details of tree cutting at the project site ahead of mining activities.
3. Details of compensatory afforestation plan with geocoordinates and site photographs of locations proposed for it and the ownership details of the land.
4. Proposed location of the 40 Solar Street Lights as part of CER activities (phase I and Phase II).
5. Revised plan for implementing CER proposal during the first two years and their maintenance in subsequent years of the mine life.
6. Consent letter / property details of the area (0.3 Ha. outside the permit area) proposed for the overburden storage.

Item No.13 Environmental Clearance for the proposed Granite Building Stone Quarry of Sri. Rajan for an area of 0.6551 Ha at Re Survey No. 111/1A1A in Koothali Village, Koyilandy Taluk, Kozhikode SIA/KL/MIN/419783/2023, 2278/EC4/2023/SEIAA

Decision : The Committee discussed the field inspection report conducted on 05.08.2023 and decided to direct the project proponent to submit the following documents.

1. Detailed drainage plan with garland drain, silt traps, settling pond and connectivity of overland flow to natural drain.
2. Plan for protection measures to OB dump.
3. Revised CER as per the guidelines uploaded in the SEIAA website
4. Revised site specific EMP integrating the CER.
5. Letter from the Wildlife Warden, regarding the distance of the site from the Wildlife Sanctuary and the width of the proposed/approved ESZ appropriate to the site and a statement about whether the site falls within the proposed/approved ESZ.
6. Proof of the proof of application submitted to the NBWL for wildlife clearance.
7. Environmental quality data monitored recently as the one submitted is of 2018.
8. Development plan for haulage road.
9. Compensatory afforestation plan with geotagged photographs of the proposed site and ownership details of the land.
10. Detailed sanitation and waste management arrangements.
11. Energy Conservation Measures
12. Measures proposed for the protection of houses in the close proximity (50.83m) of the quarry (at the south-western side) from various quarry operations.

Item No.14 Application of Sri. Maneesh P. Mohanan for Environmental Clearance via PARIVESH Portal on 28/01/2020, for the mining of proposed Granite Building Stone Quarry, for an area of 0.8586 Ha at Sy. Nos. 476/1/15, 476/1/15, 477/2, 477/2/2, 477/2/4, Thirumarady Village, Muvattupuzha Taluk, Ernakulam. (Old Proposal No. SIA/KL/MIN/139351/2020, Old File No. 1714/EC3/2020/SEIAA) (New Proposal No: SIA/KL/MIN/422091/2023, New File No: 2257/EC3/2023/SEIAA)

Decision : The Committee examined the additional documents submitted by the proponent, the hearing note submitted by the petitioners on 10.08.2023 and clarifications on complaints. The proponent submitted a copy of a Letter from NCESS dt 13.11.2019 (reply to RTI) indicating that no landslides or earthquakes occurred in the 1km radius of the survey number (476/1-15) where the proposed site is located in response to the complaint that in 1991 and 2018, landslide occurred in the area, and the debris fell on the house of Sri. Yacob. During the field inspection, there was no house found located within 50m of the site and therefore, the complaint that a house located around 50m from the proposed quarry got partially destroyed in 2018 cannot be relied upon. As per the complaint, the Marady branch canal of MVIP is around 800 m from the area and the Chief Engineer Irrigation intimated that any activity within a 1 km radius requires permission from the Irrigation Department which the proponent will have to be complied with, if the project is cleared. As per the complaint, a CMS Anglican Church is located at a distance of 150 m on the steep slope above the proposed area. The church is in the same sy.no. i.e., 476/1 and is constructed in 1960. Close to the church, there is a building under construction, under Life Mission Scheme. Another house is at 125 m on the lower slope of the proposed area. The proponent clarified that the CMS Anglican Church is 189 m from the proposed area and the geotagged photograph is submitted as proof. The proponent also stated that the other building is 238 m away from the site. Therefore, both these buildings are beyond the distance criteria stipulated. As per the complaint, there is a road which is seen in the asset register of the panchayath and the same is mentioned in the Village Officer's Certificate as a private road, the proponent clarified that the road is shown in the survey sketch approved by the Tahsildar and the Letter of Intent was issued by the Department of Mining after considering the same. The proponent clarified that the thodu mentioned in the complaint is a seasonal Nala and is situated more than 200m from the site and geotagged photographs is submitted to clarify the same. In response to the complaint that there are two check dams are present at around 200m, the proponent clarified that the nearest Check dam is located more than 800m away from the site and submitted Geotagged photographs as proof. In response to the complaint that a water tank built for drinking water purposes is located within 500 m air distance of the project area and the mining will damage the same, the proponent submitted that the water tank is situated more than 600m away from the project site. The Complainants also stated that there is a tribal colony at around 750 m from the proposed area and the vibration will have more impact on the colony, the proponent replies that the same is beyond the distance criteria. The proponent submitted the additional documents sought in the minutes of the 144th meeting. **The Committee discussed the details and decided to defer the case to next meeting for a final decision on the matter.**

Item No.15

**Environmental Clearance for the proposed Laterite building stone quarry of Sri. Mohammed Chakkingal, at Re-Survey No.172/3206 in Kodyathoor Village, Kozhikode Taluk, Kozhikode
SIA/KL/MIN/423117/2023, 2282/EC4/2023/SEIAA**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 19509 MT. The life of mine is 2 years. The project cost is 15 lakh. The nearest building is at 181.5 m. The Committee heard the presentation in its 149th meeting. The Committee examined the additional details submitted and noted that the depth of mining proposed is 6m below ground level and depth to water table is 4m bgl. **Based on detailed discussion, the Committee decided to seek clarification on the feasibility of mining as the depth to water table is 4m below ground level and mining has to be restricted to 2m above the groundwater table.**

Item No.16 **Environmental Clearance application for the Proposed Laterite (Building Stone) Quarry Project of Sri. Unnikrishnan P., in Block No.91, Re-Survey No: 46/109 of Kalliyad Village, Iritty Taluk, Kannur (SIA/KL/MIN/425079/2023, 2306/EC4/2023/SEIAA)**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The Committee noted that the mineable reserve is 33,993 MT with an annual production of 11331 MTA. The mine life is 3 years. The project cost is Rs. 4.40 lakhs The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.17 **Environmental Clearance for Granite Building Stone Quarry of Sri. Unnikrishnan K for an area of 0.4420 Ha at Block No: 26 Re.SurveyNo.207/8 in Keezharoor Village, Kattakada Taluk, Thiruvananthapuram**
SIA/KL/MIN/428344/2023, 2275/EC1/2023/SEIAA

Decision : The SEAC has approved a report stating that a mining project of less than 0.5 Ha is not feasible. The application has been submitted prior to the approval of the report of SEAC. **Therefore the Committee decided to seek the advice of SEIAA whether the application has to be appraised or not.**

Item No.18 **Environmental Clearance for the Laterite (Building Stone) Quarry, for an area of 0.1943 Ha. in Block No: 24, Re-Survey No: 76/101 of Alapadamba Village, Payyannur Taluk, Kannur**
(SIA/KL/MIN/429142/2023, 2280/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The mineable reserve is 18701 MT and mine life is 1 year. The project cost is Rs.3,85,395/-. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.19 Laterite (Building Stone) Quarry project, or an area of 0.1943 Ha. Block No: 24, Re-Survey No: 76/101 of Alapadamba Village, Payyannur Taluk, Kannur, Kerala (SIA/KL/MIN/429176/2023, 2291/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The mineable reserve is 18,701 MT. The expected life of mine is One year. The project cost will be Rs. 3,85,395/-. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.20

Environmental Clearance for the Laterite (Building Stone) Quarry for an extent of 0.1943 Ha. at Block No: 24, Re-Survey No: 76/101 in Alapadamba Village, Payyannur Taluk, Kannur, Kerala. (SIA/KL/MIN/429187/2023, 2277/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The Committee noted that the mineable reserve is 18701 MT and mine life is 1 year. The project cost is 3,85,395/-. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.21 Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Smt. Saibunnessa Ismail, for an extent of 0.1945 Ha in Block No: 42, Re-Survey No: 76/573 of Panappuzha Village, Payyannur Taluk, Kannur (SIA/KL/MIN/429631/2023, 2276/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The Committee noted that the mineable reserve is 17,018 MT and mine life is 1 year. The project cost is 4,53,800/-. The Committee heard the presentation in its 145th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. Depth of mining should be limited to 4m below ground level.
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. 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.
13. 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.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. 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)

Item No.22 **Laterite (Building Stone) Quarry for an extent of 0.1942 Ha of Sri. K. V. Krishnan in Block no: 91 Re-Sy No. 3/628 of Kaliyad Village, Iritty Taluk, Kannur (SIA/KL/MIN/430102/2023, 2292/EC4/2023/SEIAA)**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 15293 MT. The expected life of mine is one year. The project cost will be Rs.4,70,400/-. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. Depth of mining should be limited to 4m below ground level.
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. 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.
13. 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.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. 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)

Item No.23 **Environmental Clearance application for the Laterite (Building Stone) Quarry of Sri. A.C. Yousaf, for an area of 0.1942 Ha. in**

**Block No. 91, Re-Survey No: 3/628 of Kaliyad Village, Iritty Taluk,
Kannur (SIA/KL/MIN/430586/2023, 2293/EC4/2023/SEIAA)**

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 15,293 MT. The expected life of mine is one year. The project cost will be Rs. 4,43,200/-. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.24 Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Usman Thazhathery, for an extent of 0.0971 Ha in Block No: 137 Re-Survey No: 30/551 of Chuzhali Village, Thaliparamba Taluk, Kannur, Kerala (SIA/KL/MIN/431341/2023, 2294/EC4/2023/SEIAA)

Decision : The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 6,797 MT. The expected life of mine is one year. The project cost will be Rs. 2.60 lakh. The Committee heard the presentation in its 149th meeting. **Based on detailed discussion, the Committee decided to recommend EC for the mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions;**

1. Depth of mining should be limited to 5m below ground level.
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. 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.
13. 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.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. 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)

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

Item No.1

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

Decision : The Committee examined the direction of 130th SEIAA and observed that the said complaint had not been provided to SEAC prior to the field inspection. Hence the matter stated by the DC in Letter dated 22.12.2021 is not verified in the field. The complaint is to examine whether the cracks on the building wall and damage to the roofing sheet are caused by fly rocks or not. The reasons for these two complaints cannot be ascertained at this stage. Therefore it is desirable to suggest mitigative measures for these two aspects. Accordingly, the following specific conditions should be added to the earlier recommendations

1. The blasting should be conducted strictly as per NONEL technique
2. The blasting mats and other measures to prevent the fly rocks should be provided
3. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. Temporary wall of height 5m should be erected at the boundary pillars wherever there are building within 200m.
5. It is desirable to constitute a monitoring committee to monitor the implementation of the EC conditions.
6. The proponent should submit a Compliance report within 6 months after adopting all the above specific conditions and SEAC shall verify the compliance.

Item No.2

Application for Environmental Clearance for the proposed Granite Stone Mining Project, M/s K Lekshmanan Infrastructure and Industries Pvt Ltd for an area of 0.9812 in Survey Nos. 222/4, 222/5, 222/28, 222/14, 229/1- 2, 229/15, 229/15-2-1, 229/15-2-2 (Pvt Land) and 222/13, 222/21, 222/23, 222/24 (Govt Land), Chadayamangalam Village, Kottarakkara, Taluk, Kollam (SIA/KL/MIN/303257/2023, 1730/EC2/2020/SEIAA)

Decision : The Proponent vide letter dated 29.07.2023 submitted that mining operations in the proposed site is yet to be commenced as they are waiting EC for a period of 3 years instead of one year. The proponent submitted the revised Mining Plan approved dated 27.07.2023 for 3 years. Accordingly, Committee decided to recommend modification of EC to the mine life of 3 years stipulating the following specific conditions in addition to the general condition.

1. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancing properties etc.

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. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. 167 trees are proposed to be cut for quarrying operation. The area mostly has exposed rock, so compensatory afforestation should be done during the 1st year itself and geotagged photographs of the progress of compensatory afforestation 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. The access road should be developed to ensure hindrance-free road transportation and adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

PART – 3

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 **M/s NBCC (I) Ltd for the project “Valley view apartments” at block No. 39, Resurvey No.93/9, village Puthencruz, Ward No.-II, Taluk Kunnathunad, District Ernakulam, Kochi, Kerala (SIA/KL/INFRA2/407333/2022, 1993/EC3/2022/SEIAA)**

Decision : The Committee examined the direction of SEIAA in its 131st meeting. Accordingly, the Committee observed that the penalty as per the OM is 1% of the project cost and it is worked out as 87.90 lakh. **The Committee decided to direct the proponent to examine the adequacy of penalty as per the OM and revise the EIA report incorporating revised remediation plan detailing the Natural and Community Resource Augmentation Plan and CER proposal taking into consideration the observation of SEIAA in its 131st meeting.**

Item No.2 **Application for Environmental Clearance for the Proposed Commercial Complex Project to be developed by Sri. Mohamed Fazim. P, M/s Nilambur Lands LLP at Survey Nos.145 & 149 in Mampad Village, Nilambur Taluk, Malappuram. (SIA/KL/INFRA2/430386/2023, 2309/EC6/2023/SEIAA)**

Decision : As invited the proponent, Sri. Mohamed Fazim. P, M/s Nilambur Lands LLP, and Consultant Sri. P Z Thomas, Environmental Engineers & Consultants Pvt. Ltd., were present. The Consultant made the presentation. The plot area is 2.5204 ha. (25,204 sq. m.), with a built-up area of 80,950 sq.m. The proposed project consists of Commercial retail shops, Multiplex (,500 seats), Food court (1200 seats), Restaurant (300 seats) along with supporting infrastructure facilities. The project cost is 100 crore. The maximum height of the building is 30 m. As per the application, all the excavated earth will be consumed within the site. **The Committee entrusted Dr.K.N.Krishnakumar and Sri. Sheik Hyder Hussain for site inspection and report.**

Item No.3 **Environmental Clearance for the proposed Residential project to be developed by M/s Tektoninfra India Pvt. Ltd at Re-Survey Nos. 121/7, 121/5, 121/6, 126/2, Pantheerankavu Village, Olavanna Panchayat, Taluk Kozhikode, Kozhikode District, Kerala. SIA/KL/INFRA2/431555/2023, 2302/EC4/2023/SEIAA**

Decision : As invited the authorized person of the project proponent, Sri.Saneesh I.S & the Consultant Sri. P Z Thomas, Environmental Engineers & Consultants Pvt. Ltd., were present. The Consultant made the presentation. As per the application the total plot area of 1.35 ha. and total built-up area of 64,816.14 sq.m with 272 residential units. The Chaliyar river is at 0.17 km. The project cost is 96 crores. As per the application, there is no excess

excavated earth from the site. **The Committee decided to entrust Dr.C.C.Harilal and Dr.K.Vasudevan Pillai for field inspection and report.**

Item No.4 Environmental Clearance for Granite Building Stone Quarry project of Sri. K. K. Balakrishnan Nair for an area of 0.5297Ha. in survey No.143/1 at Kolathur Village, Kasargod Taluk, Kasargod (SIA/KL/MIN/135414/2020, 1601/EC2/2019/SEIAA)

Decision : The Committee examined the observation of SEIAA. **Based on discussions, the Committee decided to get the following clarifications from the proponent**

1. Clarification regarding the period of EC sought as the life of mine as per the approved MP is 11 years whereas the EC is sought for a period of 5 years as given in the application
2. Clarification regarding the depth of mine with respect to the life of mine and the period of EC sought. The depth of mine as per the application is 65 m above MSL where as in the MP it is given 57 m above MSL. The lowest elevation is 65m above MSL. Since the depth to the water table is 3m below ground level, the mining will intersect the groundwater table. If the mining is limited to 5 years, the depth of mining will be 85m.
3. The feasibility of mining in the high slope region, especially in the middle part of slope.

Item No.5 Environmental Clearance application for the Granite Building Stone Quarry project of Sri. Sebastian George, for an area of 0.8752 Ha. at Re Survey No. 599/1A1, 599/1A2 & 599/3 of Belur Village, Vellarikund Taluk, Kasaragode (SIA/KL/MIN/159687/2020, 1853/EC2/2020/SEIAA)

Decision : The Committee discussed the field inspection report conducted on 24.06.2023. **The Committee decided to direct the project proponent to submit the following details/documents**

1. Recent environmental monitoring data as the baseline environmental data (dated 04.08.2018) submitted is five years old.
2. Geotagged photographs of properly fixed geo-coordinate marked boundary pillars.
3. Detailed plan for protecting the pond and surangam near the BP2.
4. Detailed CER proposal as per the guidelines uploaded in the SEIAA-Kerala website
5. Plan for the development of access road.
6. Map showing the OB dump location and protection measures.
7. Detailed drainage plan with garland drain, silt traps, settling pond and connectivity of overland flow to natural drain.
8. Compensatory afforestation plan along with geotagged photographs of the site, species proposed to be planted and ownership details of the proposed land.
9. Plan for rainwater harvesting structure.
10. Details of sanitation and waste management arrangements.

11. Plan for energy conservation measures.
12. Site specific Environment Management Plan for all the mitigation measures required and incorporating the CER.

Item No.6 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. K. Gangadharan, for area of 1.3710 hectares at Re-Survey No. 151/1, 151/4, 1/1 of Puthur Village, Thalassery Taluk, Kannur (SIA/KL/MIN/218355/2021, 2094/EC4/2022/SEIAA)**

Decision : The Committee discussed the field inspection report conducted on 28.07.2023. The Committee decided to notify the project proponent the following requirements;

1. Recent environmental monitoring data as the baseline environmental data (dated 14.05.2018) submitted is five years old.
2. Detailed CER proposal as per the guidelines uploaded in the SEIAA-Kerala website
3. Plan for the development of access road.
4. Map showing the OB dump location and protection measures.
5. Detailed drainage plan with garland drain, silt traps, settling pond and connectivity of overland flow to natural drain.
6. Compensatory afforestation plan.
7. Details of sanitation and waste management arrangements.
8. Plan for energy conservation measures.
9. Site specific Environment Management Plan for all the mitigation measures required and incorporating the CER.
10. Protective measures for the boulders on the south eastern side of the project area.

The Committee decided to invite the proponent for presentation.

Item No.7 **Environment Clearance for the Granite Building Stone Quarry project of Sri. E.M. Madhu, for an area of 0.9845 Ha. at Sy. No. 324/1, 318/7, 318/1 in Moonilavu Village, Meenachil Taluk, Kottayam (SIA/KL/MIN/279495/2022; 2115/EC3/2022/SEIAA)**

Decision : As invited, the proponent Sri.E.M.Madhu and the RQP, Sri. Thambu Cheriyan attended the hearing. The RQP intimated the medium hazard zone is at more than 100m (one side 175 m and the other side 115 m). The proponent revised the EMP with precautionary measures, considering the presence of natural streams and habitats. The proponent agrees to widen the road to 8m. As per the report of the Village Officer, the distance to the natural stream is 59 m. A longer path for garland drainage is proposed. **The Committee directed the project proponent to submit the hearing note within 7 days with all supporting documents.**

Item No.8 **Environment Clearance for the Granite Building Stone Quarry Project of 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 (SIA/KL/MIN/286117/2022, 2067/EC4/2022/SEIAA)

Decision: As per the decision of the 145th SEAC meeting, the proponent was invited for a hearing on 18.10.2023, The proponent vide email dated.12.10.2023, requested to permit hearing after submission of a detailed representation of the issues raised by SEAC while recommending rejection of the proposal for Environmental Clearance. **Hence the Committee decided to defer the proposal.**

Item No.9 Environmental Clearance for Granite Building stone quarry of Sri. Moideen. P for an Extent of 0.7352 Hectares at Survey No. 279/1A2 and 278 of Thirumittacode - I Village, Pattambi Taluk, Palakkad SIA/KL/MIN/408714/2022, 2198/EC1/2023/SEIAA

Decision : As invited the authorized person of the project proponent, Sri.Abdul Rasheed.P and the RQP, Dr.P.Thangaraju were present. The RQP made the presentation. As per the application, the total mineable reserve is 91,513 MT with an annual production of 18,600 MTA. The nearest house is at 74 m. The life of mine is 5 years. The Bharathapuzha river is at 2.8 km from the project site. The Committee observed that the depth of mining has to be limited to 37 m above MSL as the depth to water table is 9m below ground level. The monitoring data is of the year 2018 and therefore **Committee directed the project proponent to submit the revised monitoring data.**

Item No.10 Environmental Clearance to Granite Building Stone quarry of Sri. John Thomson, M/s. Tropical Granites for an area of 2.6262 Ha at Re Survey Nos.649/2, 649/3,651/1, 651/2, 651/3, 651/4, 651/5, 651/6, 652/20 & 652/2, Re survey Block no.12 in Kuthanur1 Village, Alathur Taluk, Palakkad District, SIA/KL/MIN/409809/2022, 2177/EC1/2022/SEIAA

Decision : As invited, the proponent, Sri.John Thomson and the RQP, Dr.Nazar Ahamed K.V were present. The RQP made the presentation. The mineable reserve is 8,84,813 MT (88,480 TPA) and life of mine is 10 years. The highest elevation is 135 m MSL and the lowest elevation is 115 m MSL. The distance to the moderate hazard zone is 8.04 Km and to the high hazard zone is 17.23 km. The Chulanur Peafowl Sanctuary is situated at 8.2 km. The field inspection was conducted on 14.06.2023. **The Committee directed the project proponent to submit the following additional documents;**

1. Present land use details
2. Site specific EMP with budget for entire life of mine.
3. CER to be revised in consultation with the Local Body considering their need to address water requirements.
4. Details of water requirement, availability, source and yield characteristics of source.

5. Compensatory afforestation plan along with coordinates of the proposed site, geotagged photographs of the proposed site, species proposed to be planted and the ownership details/consent of the land owner.
6. OB dump location with geo coordinates.
7. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
8. Letter from DFO regarding the distance of the site from the sanctuary, details of the proposed ESZ around the Choolannur bird sanctuary and whether the site falls within the ESZ and copy of application submitted for wild life clearance from the NBWL.

Item No.11 Application for Environmental Clearance for the proposed Granite Building Stone Quarry Project of Sri. Abdul Basheer. P for an area of 1.4867 Ha at Sy.No.252 & 259/1 in Ooragam Village, Thirurangadi Taluk, Malappuram (SIA/KL/MIN/425229/2023, 2266/EC6/2023/SEIAA)

Decision : The Committee discussed the field inspection report conducted on 04.09.2023. The Committee decided to direct the project proponent to submit the following additional documents;

1. Consent from the owner of the quarry pit from where the water requirement is proposed to be met for the project.
2. Recent survey map certified by the Village Officer indicating built structures, including houses and other buildings, and infrastructure within 200m radius of the boundary of the proposed site
3. Revised site specific EMP incorporating identified environmental issues, mitigation measures, adequate budget estimate for implementation and maintenance for the entire life of mine
4. Revised CER as per OM incorporating monitorable physical targets (Item no. 2 does not have monitorable physical targets) with adequate budgetary provision including for maintenance for the entire life of mine.
5. Compensatory afforestation plan incorporating the details of trees proposed to be planted, geo-coordinates of the proposed site, geo-tagged photographs of the proposed site and the ownership details of the proposed land
6. Clarification as to the maintenance of unimpeded flow of the drainage channel as there is possibility of blockage of the drainage channel being adjacent to the OB/Top soil dumps and there is possibility of soil erosion as it is on the slope. OB/Top soil dump site and the drainage channel are located on north-western side as per the map submitted.
7. Detailed drainage plan incorporating garland canals, silt traps, siltation tanks, outflow channel and connectivity to natural drain. If connectivity is not through the Proponent's holding, consent from the owners also need to be submitted
8. Clarification is needed from the proponent regarding the protection/stabilization of OB of adjacent working quarry stored on the northern side of the proposed site. As

the general slope of the site is towards west, there is every possibility of sliding of this soil dump to the proposed drainage channel.

9. Geotagged photographs of all the boundary pillars after fixing them firmly on the ground
10. Proposed sanitation and waste management measures
11. Proposed energy conservation measures

Item No.12 **Application for Environmental Clearance for the proposed Granite Building Stone quarry of Sri. of Honey Vasanth over an extent of 1.2250 Ha at Block No.- 04, Re-Survey Nos. 162/1pt & 162/2pt in Pattazhy Village, Pathanapuram Taluk, Kollam. (SIA/KL/MIN/425701/2023 , 2313/EC2/2023/SEIAA)**

Decision: As per the decision of the 147th SEAC meeting, the proponent was invited for presentation, but the proponent was absent. Hence the Committee decided to defer the proposal.

Item No.13 **Application for Environmental Clearance for the proposed Laterite Building Stone Quarry Project of Sri.Muhammed Naseer Shah T.K at Sy.No.364/2 in Naduvattom Village, Tirur Taluk, Malappuram (SIA/KL/MIN/428211/2023 , 2298/EC6/2023/SEIAA)**

Decision : As invited, the proponent, Sri.Muhammed Naseer Shah T.K and the RQP, Dr.Nazar Ahamed K.V were present. The RQP made the presentation. As per the application, the mineable reserve is 10195.5 MT. The life of mine is 1 year. The project cost is 10 lakh. The nearest building is at 80 m. The highest and lowest elevation is 110 m & 107 m respectively. The Committee directed the project proponent to submit the following additional documents.

1. Depth to water table in the nearest dug well along with geotagged photograph of the well and distance to it from the project boundary
2. Specific CER including the stakeholder consultation proof

Item No.14 **Application for Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Noushad C K at Sy.No.63/3-1-1, 63/3-2-1, 63/3-3-1, 64/4 in Muthuvalloor Village, Kondotty Taluk, Malappuram (SIA/KL/MIN/429680/2023, 2287/EC6/2023/SEIAA)**

Decision : As invited, the proponent, Sri.Noushad C.K and the RQP, Sri.V.K.Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 18,221 MT and the mine life is 2 years. The project cost is Rs. 4,92,810. Depth to water table along with water table map. Based on discussions, the Committee decided to recommend EC for the mine life of 2 years subject to the following specific conditions in addition to the general conditions;

17. Depth of mining should be limited to 4m below ground level

18. The excavation activity should not involve blasting.
19. The excavation activity should be restricted to 2m above the groundwater table at the site.
20. The excavation activity should not alter the natural drainage pattern of the area
21. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
22. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
23. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
24. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
25. Workers/labourers should be provided with facilities for drinking water and sanitation.
26. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
27. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
28. 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.
29. 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.
30. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
31. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
32. 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)

Item No.15 Environmental Clearance application for the Laterite (Building Stone) Quarry Project of Sri.Ahammed Kunji ATP, for an area of 0.1944 Ha. Block No. 46, Re-Survey No: 14/848, 14/676 of Pariyaram Village, Thaliparamba Taluk, Kannur, Kerala (SIA/KL/MIN/430072/2023, 2304/EC4/2023/SEIAA)

Decision : As invited, the proponent Sri.Ahammed Kunji ATP and the RQP Sri.V.K.Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 17,010 MT. The life of mine is 1 year. The project cost is Rs. 6.59 lakhs. The nearest building is 160.2 m from the project boundary. Based on discussions, **the Committee decided to recommend EC for the mine life of 1 year subject to the following specific conditions in addition to the general conditions;**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.16 **Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri. Sharafudheen EP, in Block No. 76, Re-Survey No: 60/106 of Kuttiyeri Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.0971 Ha (SIA/KL/MIN/430898/2023, 2301/EC4/2023/SEIAA)**

Decision : As invited, the proponent Sri. Sharafudheen E.P and the RQP Sri.V.K.Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 8496 MT. The life of mine is 1 year. The project cost is 2.6 Lakh. The depth to water table is 7m below ground level. No house is reported within 200m. **The Committee decided to direct the project proponent to submit recent certified survey map from the Village Office.**

Item No.17 **Application for EC for the Granite Building Stone Quarry Project of Sri.Khaja Hussain K.K, M/s Khaja Granites at Sy.Nos.34/IA-78, 34/1A-79, 34/1A-80 in Kariavattom Village, Perinthalmanna Taluk, Malappuram (SIA/KL/MIN/431505/2023, 2299/EC6/2023/SEIAA)**

Decision : As invited, the proponent, Sri.Khaja Hussain, Partner Sri.Shamsudheen & the RQP Sri.V.K.Roy were present. RQP made the presentation. As per the application, mineable reserve is 3,36,390 MT with an annual production of 67,200 MTA. The life of mine is 5 years. The project cost is 1.2 crores. The highest elevation is at 130 m and the lowest elevation is at 115 m. The distance to the high hazard zone is 14.6 km and to the medium hazard zone is 1.7 km. The nearest house is at a distance of 205 m. No cluster situation is noticed as per the Cluster Certificate dated 05.5.2023. **The Committee decided to entrust Dr.K.N.Krishna kumar and Sri.Sheik Hyder Hussain for field inspection and report.**

Item No.18 **Environmental Clearance for Ordinary clay mining project of Sri. P. S. Ajayakumar, over an extent of 0.1800 Ha in Re Survey No-456/1, Block No-12 at Kollengode2 Village of Chittur Taluk, Palakkad SIA/KL/MIN/432522/2023 , 2290/EC1/2023/SEIAA**

Decision : As invited , the proponent Sri. P. S Ajayakumar and the RQP Dr.K.V.Nazar Ahamed were present. The RQP made the presentation. As per the application, the mineable reserve is 7200 MT. The life of mine is 2 years. The project cost is 15 lakh. The highest elevation is 121 m and lowest elevation is 119.5 m. Based on discussions, **the Committee decided to recommend EC for a period of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Obtain NOC from the KSEB for the high tension line subject to their distance norm prior to the commencement of mining.
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. 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.
13. 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.

14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. 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)

Item No.19

**Application for Environmental Clearance for the proposed Laterite Building Stone Quarry of Sri. Abdul Jaleel at Sy.No.7/2-3 in Mankada Village, Perinthalmanna Taluk, Malappuram.
(SIA/KL/MIN/432642/2023, 2300/EC6/2023/SEIAA)**

Decision: As invited, the proponent Sri. Abdul Jaleel and the RQP Sri.V.K.Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 24,063 MT. The life of mine is 1 year. The project cost is 9,01,350/-. The nearest house is at 172 m. Based on discussions, **the Committee decided to recommend EC for a period of 1 year subject to the following Specific Conditions in addition to the General Conditions:**

1. The excavation activity 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 agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering 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 the 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 the 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)

Item No.20 **Application for Environmental Clearance for the Laterite Building Stone Quarry of Sri.Haneefa Kottai at Sy.No.204/1-3, 1-12, 1-8, 1-4 in Muthuvallur Village, Kondotty Taluk, Malappuram (SIA/KL/MIN/432891/2023 , 2310/EC6/2023/SEIAA)**

Decision : As invited, the proponent Sri.Haneefa Kottayi and the RQP Sri.V.K.Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 66,306 MT. The life of mine is 3 years. The project cost is 16.32 lakh. The nearest habitation is at 69.8 m. **The Committee decided to direct the project proponent to submit the following additional documents;**

- 1) *Recent Cluster Certificate*
- 2) *CER proposal as per norms*

Item No.21 **Environmental Clearance to Smt. S Jayasree for Silica Sand mining of over an area of 1.0552 Ha. (2.6074 Acres) in Sy. Nos. 58/11B1, 58/11B2, 58/14 at Panavally Village, Cherthala Taluk, Alappuzha SIA/KL/MIN/45722/2019, 1591/EC4/2020/SEIAA (ADS Received)**

Decision: As per the decision of the 147th SEAC meeting, the proponent was invited for a presentation, but the proponent was absent. Hence the Committee decided to defer the proposal.

Item No.22 **Application for Environmental Clearance for the Granite Building Stone quarry project of Sri. M.D George, M/s Ernad Associates for an area of 3.5950 Ha at Re Sy Block No.27, Re Sy Nos.37/8, 39/11-3, 39/11-2, 39/11, 43/1-2, 43/2, 42/4-5, 43/1 in Urangattiri Village, Ernad Taluk, Malappuram. (SIA/KL/MIN/53095/2020 , 1668/EC6/2020/SEIAA)**

Decision: As per the decision of 147th SEAC meeting, the proponent was invited for presentation. The proponent requested to postpone the presentation vide email dated 13.10.2023. Hence the Committee decided to defer the proposal.

Item No.23 **Building Stone Quarry project of Sri. Rajan Thomas, for an area of 4.9231 Ha. at Re-Survey Nos. 205/3, 205/5, 199/3, 199/8, 199/7, 199/7-1, 199/9, 199/6- 1, 198/1, 198/2, 197/1, 198/5, 198/5-6, 198/4, 207/1, 198/3, 206/2, 206, 206/4, 206/1, 206/3 in Kanjirappally Village & Panchayat, Kanjirappally Taluk, Kottayam, Kerala (SIA/KL/MIN/164009/2020, 1372/EC2/2019/SEIAA)**

Decision : The Committee discussed the Evaluation Report. The total mineable reserve is 257862.50 MT. The life of mine is 10 years. The project cost is 9.55 crores. Field inspection was conducted on 09.07.2023. The Committee heard the presentation in its 122nd meeting. The nearest house is 57m towards the West side. Based on discussions, **the Committee decided to recommend EC for a period of 10 years subject to the following specific conditions in addition to the general conditions:**

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. 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 gabion 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. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
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. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR

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

Item No.1 **Application for Extension of EC for the Granite Building Stone Quarry Project of Sri. Sivasankaran. P for an area of 2.9103 Ha at Sy.No.318/1/1, 318/1/2, 318/3 pt, 318/4, 319 pt in Thiruvalli Village, Nilambur Taluk, Malappuram (FIR Received) (SIA/KL/MIN/252208/2022, 857/SEIAA/EC1/2981/2015)**

Decision : The Committee discussed the field inspection report conducted on 30.07.2023 and noted serious violation of the following EC conditions;

- There are 3-4 abandoned quarries near the present project site and mining was undertaken unscientifically in all these sites. The flanks are steeply sloping to sub vertical level and quarrying was done without any bench formation. The worked-out areas with very steep cliff-like features do not have fencing and are not demarcated as danger zones with sign boards.
- The proponent, as part of the EC issued the site earlier, agreed to remove top soil and mine waste during the operation, and the same will be stocked at pre-determined place and subsequently used for plantation and back filling of mine pits. This was not done and as a result, several meters of thick overburden is seen interspersed with cut out rocks throughout the quarry site.
- The entire stormwater from the quarry pit is let out without clarification to nearby areas. The recently built silt traps are non-functional due to unscientific construction. A higher extent of sheet erosion is noticed in the project site.

Based on discussions, the Committee decided to recommend to SEIAA for issuing Stop Memo urgently. The Proponent may also be directed to rectify the non-compliance of EC conditions and submit a compliance report within 3 months.

1. The boundary pillars are to be firmly fixed and geo tagged photos of the same have to be submitted.
2. Benches in the mined-out areas are to be corrected and proof of the same has to be submitted.
3. Overburden, topsoil and mine waste dump should be stalked in areas as specified in the mine plan and should be protected with gabion wall
4. Garland drains are to be provided for the entire mine site and scientifically constructed silt traps have to be provided for the entire mine area (The present silt traps constructed is not functional)
5. The green belt should be developed all along the buffer zone with indigenous species and a report with regard to the afforestation activities undertaken has to be submitted alongwith geo-tagged photographs
6. Certified report from the Mining & Geology Department regarding balance mineable resource available for the area for which the EC was issued.
7. Proof of fencing done and sign boards fixed along the worked-out areas(old quarry) with very steep cliff-like features.

8. A comprehensive Environmental Management Plan incorporating appropriate mitigation measures to overcome the environmental issues

PART –4
CONSIDERATION OF TOR PROPOSALS

Item No.1 **Application for ToR by Airports Authority of India for the development of additional RESA on either end of Runway 10-28 and relocation and augmentation of CNS facilities (Construction of embankment with slope protection, drainage system and associated works for additional RESA on either end on Runway 10-28) at Calicut Airport**
SIA/KL/INFRA2/440755/2023 , 2370/EC1/2023/SEIAA

Decision : The Committee examined the proposal and discussed the details. The Committee found that the initial EC for the project was given EC by MoEF in 2015. Now the present proposal is for the modification and modernization of the existing EC. **Accordingly, the Committee decided to recommend Standard ToR under category 7(a) “Airports” for the EIA study.**

Item No.2 **Application for ToR for the Granite Building Stone Quarry of M/s. Travancore Granites for an area of 4.9101 Ha at Sy.Nos.442/2pt, 442/3pt, 442/4pt & 452/2-2pt in Valakom Village, Kottarakkara Taluk, Kollam. SIA/KL/MIN/444411/2023 , 2388/EC1/2023/SEIAA**

Decision : The Committee examined the proposal and discussed the details. As per the Cluster Certificate dated 30.12.2022, there are two other quarries within 500m radius altogether more than 5 ha. Accordingly, **the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals with the following additional studies:**

1. The management plan for the water storage at 20m depth, near the proposed project.
2. Details of the proposed water sources for the project including the yield characteristics and source sustainability
3. Hydrological and hydrogeological characteristics of the area and specific impact on the upstream and downstream portion of the watershed in which the proposed site falls.

Item No.3 **Application for ToR for the Granite Building Stone Quarry project of Sri. Shiju Thomas for an area of 2.6261 Ha at Sy.Nos.17/1, 17/2-1pt, 17/2-2pt, 17/3pt & 17/3-1pt in Karimannoor Village, Thodupuzha Taluk, Idukki**
SIA/KL/MIN/444645/2023 , 2397/EC2/2023/SEIAA

Decision : The Committee examined the proposal and discussed it in detail. As per the Cluster Certificate dated 01.09.2023, there is another quarry within a 500m radius altogether

more than 5 ha. Accordingly, **the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals with the following additional studies:**

1. Hydrological and hydrogeological characteristics of the site and surrounding areas and specific impact on the upstream and downstream portion of the watershed in which the proposed site falls.
2. Evaluate of the possibility of landslide risk associated with the site and surrounding areas.
3. Details of the proposed water sources for the project including the yield characteristics and source sustainability

Item No.4 **Application for ToR for the Granite Building Stone Quarry Project of Sri.Babu Nayem for an area of 2.9926 HA,at Re.Sy.Nos. 1012/56, 1012/27 in Melmuri Village, Ernad Taluk, Malappuram SIA/KL/MIN/437072/2023 , 2399/EC1/2023/SEIAA**

Decision : The Committee examined the proposal and discussed the details. As per the Cluster Certificate dated 20.05.2023, there are four other quarries within a 500m radius altogether more than 5 ha. Accordingly, **the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals with the following additional studies:**

1. Landslide susceptibility of the proposed site and surrounding areas.
2. Hydrological and hydrogeological characteristics of the area and specific impact on the upstream and downstream portion of the watershed in which the proposed site falls.
3. Details of the proposed water sources for the project including the yield characteristics and source sustainability
4. Suggestions for avoiding the impact of the project on the nearby Arts & Science College and its functioning

Item No.5 **Application for ToR for the Granite Building Stone Quarry Project of Sri. Prakash N for an area of 2.7123 Ha at Re-Survey Block No:49, Re-Survey No: 229 in Vandazhi I Village, Alathur Taluk, Palakkad. SIA/KL/MIN/443257/2023, 2382/EC3/2023/SEIAA**

Decision : The Committee examined the proposal and discussed the details. As per the Cluster Certificate dated 21.07.2023, there are three other quarries within a 500m radius altogether more than 5 ha. Accordingly, **the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals with the following additional studies:**

1. Traffic management study
2. Details of the proposed water sources for the project including the yield characteristics and source sustainability
3. Hydrological and hydrogeological characteristics of the area and specific impact on the upstream and downstream portion of the watershed in which the proposed site falls.

4. Post mine water harvesting potential of the site and its utilization potential as well as management plan

Item No.6 **Application for ToR for the Granite Building Stone Quarry Project of Sri. Prince George for an area of 0.4046 Ha at Survey No.391/5/7/19 in Varappetty Village, Kothamangalam Taluk, Ernakulam. SIA/KL/MIN/441983/2023 , 2387/EC1/2023/SEIAA**

Decision : The Committee examined the environmental feasibility of mining of granite building stones in a lease area of 0.5 Ha or less and found that it is difficult to ensure required environmental safeguards for mining in such small areas. In other words, if mining is permitted in a lease of 0.5 Ha or less, the stipulated environmental safeguards may be compromised to make the project viable. The KMMC Rule 37(1) also states that the quarrying lease shall be a contiguous unit and shall not be less than one hectare. **Considering the detailed report approved by the SEAC namely “Minimum area required for mining granite building stones in Kerala ensuring environmental safeguards” regarding the viability of mining in area less than 0.5 Ha, the Committee decided to recommend rejection of the ToR proposal.**

Item No.7 **Application for ToR for the Granite Building Stone Quarry Project of M/s. Marath Enterprises & Crushers Pvt. Ltd. (Represented by its Managing Director K. I. Arumughan), for an area of 4.1030 Ha at Sy.Nos. 197/5, 197/6, 197/2, 369/1-2, 194/11-1, 194/4, 194/11, 194/14-2, 194/12, 194/10-1, 194/13, 369/1-1 in Koppam Village, Pattambi Taluk, Palakkad SIA/KL/MIN/443641/2023 , 2379/EC2/2023/SEIAA**

Decision : The Committee examined the proposal and discussed it in detail. As per the Cluster Certificate dated 03.08.2023, there is another quarry within a 500m radius altogether comes to more than 5 ha. Accordingly, **the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals with the following additional studies:**

1. Study on the particulate matter by providing an additional 16 monitoring stations within the stipulated impact zone.
2. Comprehensive drainage plan considering all the quarries within 500m radius.
3. Details of the proposed water sources for the project including the yield characteristics and source sustainability
4. Hydrological and hydrogeological characteristics of the area and specific impact on the upstream and downstream portion of the watershed in which the proposed site falls.
5. Post mine water harvesting potential of the site and its utilization potential as well as management plan

PART – 5

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. Sreejith M S, for an area of 1.5506 Ha at Block no: 44, Re-survey No: 114/1,115/1-1,115/4-1,115/5-1, in Kondoor Village Meenachil Taluk Kottayam**
SIA/KL/MIN/434282/2023, 2377/EC4/2023/SEIAA

Decision : The Committee examined the proposal. As per the application, the total mineable reserve is 525433 MT. The life of mine is 5 years. The project cost is 2 crore. As per the cluster certificate dated 05.06.2023, there is no cluster situation. The high hazard zone is at a distance of 318.7 m and the medium hazard zone is at 6.1 m. **The Committee decided to entrust Dr R Ajayakumar Varma and Dr Mahesh Mohan for field inspection and report**

Item No.2 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Sajeer Moyin for an area of 4.7425 Ha at Survey Numbers 323/1-3, 323/1-4, 323/1-11 & 323/1-12 in Thiruvalli Village, Nilambur Taluk, Malappuram**
SIA/KL/MIN/52716/2020 , 1654/EC6/2020/SEIAA

Decision : **The Committee discussed the evaluation report and directed the project proponent to submit the following additional documents.**

1. Recent geotagged photos of all boundary pillars after proper fixing
2. Detailed drainage map indicating the flow/overflow pattern through the abandoned quarry pits along with their connectivity to the natural drain
3. Cumulative environmental impacts of the region, detailed mitigation measures and management plan
4. Consent to use water from the harvested rainwater for the proposed quarry as well as other sources of water for the operation of the proposed quarry.
5. Detailed and revised plan along with adequate fund provision for developing haulage roads and internal access roads and their maintenance.
6. Details of the installation of a sprinklers and the split-up cost for the same
7. Revised and detailed cost estimate of the building proposed under CER activity as no amount is earmarked for the doors and windows and also it is not clear whether the amount (Rs. 58,500/-) specified is for the maintenance cost for the entire project period.
8. Details of technical consultation made in connection with the proposed transplantation of Santalum album saplings/trees from the project site

Any Other Item

1. Amendment to EC issued to Vengunad Granites

The Committee observed that the project is within 10km of the Parambikulam Wildlife Sanctuary. The EC was issued without insisting on the condition of getting wildlife clearance from the SCNBWL before mining. Hence it is decided to intimate the SEIAA to amend the EC by including the said condition. The copy of the EC may also be forwarded to IGWL, MoEFCC, New Delhi, and the Chief Wildlife Warden, Forest and Wildlife Department, Govt of Kerala.

The Committee decided to convene its next meeting on 31st October 2023 and 1st November 2023 through an online platform.

Sd/-
Suneel Pamidi, IFS
Secretary, SEAC

Sd/-
Dr.Ajayakumar Varma
Chairman, SEAC

LIST OF PARTICIPANTS:

Sl.No.	Name	16.10.2023	17.10.2023	18.10.2023
1.	Dr.R.Ajayakumar Varma (Chairman)	✓	✓	✓
2.	Shri. Sheik Hyder Hussain	✓	✓	✓
3.	Dr.A.Bijukumar.	X	X	X
4.	Dr.A.N.Manoharan	✓	✓	✓
5.	Shri. M.Dileepkumar	X	✓	X
6.	Smt. Beena Govindan	✓	✓	✓
7.	Dr.C.C.Harilal	✓	✓	✓
8.	Dr.K.VasudevanPillai	✓	✓	✓
9.	Dr.MaheshMohan	✓	✓	✓
10.	Dr.K.N.Krishna kumar	✓	✓	✓
11.	Sri.V.Gopinathan	X	X	X
12.	Dr.A.V.Raghu	✓	✓	✓
13.	Dr.N.Ajithkumar	✓	✓	X
14.	Sri.Suneel Pamidi,IFS (Member Secretary)	✓	✓	✓