

compliance of distance criteria stipulated as per guideline is difficult, especially for the public even though the map provided is with co-ordinates. The map is also devoid of the entire infrastructure across the river stretch.

5. The permanent boundary pillars with MSL marking are not reported to have erected at stipulated intervals after identification of an area of aggradation and deposition outside the bank of the river at safe locations for future surveying.
6. The DSR does not provide details such as location, chainage, upstream, downstream distances etc. of the non-mining/restricted zone
7. The DSR does not reflect the selected transportation route or its verification by the State Government for its carrying capacity to avoid disturbance to habitation.
8. The DSR should incorporate list of mining lease to be auctioned, proof of public consultation, details regarding cluster and contiguous cluster needs etc.
9. The DSR should incorporate the corrections regarding the distance from built structures and reason for adopting the minimum distance for built structures different from the guidelines.
10. Contradictions, if any, regarding the requirement of buffer equivalent 1 km or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a minimum of 250m on the upstream side and 500m on the downstream side between the structure and sand and gravel deposits should be addressed.

PARIVESH FILES
PART – 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.01 **Environmental Clearance for the proposed Residential project developed by M/s Oceanus Dwellings Pvt. Ltd. at Survey Nos. 578/19, 578/21, 580/8, 581/7, 581/8, 581/9 in Palakkad II Village, Palakkad Taluk, Palakkad Dist.**
(SIA/KL/INFRA/416126/2023, 2223/EC1/2023/SEIAA)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the CER proposal. **Based on discussions the committee decided to get clarification/document for the following.**

1. The SEAC observed that the CER proposal pertaining to BUDS School, as proposed earlier, is feasible and desirable but is changed by the Proponent without stating any reason. If the change is made due to any reason, the Proponent direct to state the same.
2. Consent letter for rejuvenation of Maniyamkadu pond from the stakeholder who has the ownership of the pond.

Item No.02 **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, in Pantheerankavu Village, Olavanna Panchayat, Taluk Kozhikode, Kozhikode**
(SIA/KL/INFRA2/431555/2023, 2302/EC4/2023/SEIAA)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the following.

1. The alternate proposal for CER along with stakeholder consultation taking into account, the needs of the beneficiary public.
2. The access road should be constructed ensuring adequate drainage.

The Committee decided to direct the Project Proponent to submit the above documents for further appraisal of the proposal.

Item No.03 **Environmental Clearance for the Expansion of Commercial Building of Sri. Parappurath Hajji at Survey Nos. 151/6 A-3, 8-26, 6A-2, 6B-3,7-8,6B-16,5,6B-15-3,7-5,6B-13,4,5-3,7- 2,6B-7, 6B-15-2, 7-6, 7-7, 6B-10, 6B-14, 6B-15, 5-2, 5-4, 6A-6, 6A-5, 6B-2, 6A-4, 6B-12, 6B-17 in Ward No: 31, Trikkandiyur Village, Tirur Taluk, Malappuram.**
(SIA/KL/INFRA2/441661/2023, 2393/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total plot area is 15,169.30m² after adding an additional area of 3430.30m² to the original area of 11,739m² prior to the proposed expansion. The proposed Project cost is Rs 4879 lakh. The existing built-up area is 18,196.56m². The area proposed for expansion is 9,426.59 m². The height of the structure is 27.95m. Water requirement for construction phase 28 KLD. The source of water for construction is from the existing borewell and also the proposed 2 open wells within the proposed site. The occupancy load of the proposed building is 8250 persons (Staff – 200; Vendors – 50; Visitors – 8000). Water requirement during the operational phase is 240 KLD (Non-rainy days) and 226 KLD (Rainy days). The distance to Kadalundi Bird Sanctuary is 27.11 km. **Based on discussions, the Committee decided to recommend EC for 10 years subject to the following Specific Conditions in addition to the General Conditions.**

1. Climate responsive and Green Building Guidelines issued by LSGD, Govt. of Kerala vide G.O. (Ms) No.39/2022/LSGD dt. 25-02-2022 should be strictly complied with.
2. Guidelines of Kerala State Energy Conservation Building (KSECBC) Code, 2017 should be strictly complied with.
3. The water treatment technology, as submitted by the Proponent, for reducing the excess turbidity and iron content in the groundwater should be operationalized effectively for the project.
4. The traffic management plan in accordance with the existing traffic density of Tirur - Ponnani road on the eastern side and the plan for mitigating the traffic congestion in front of the project area should be implemented strictly.

5. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local groundwater, and for avoiding discharge of treated water into the nearby public drain.
6. The existing STP should be augmented with SBR, including Tertiary Treatment Unit to ensure quality of treated water for re-use /recycle for flushing / gardening/ firefighting/ recharge of local groundwater as per the plan submitted.
7. The plan submitted for mitigating the water logging at the northern side of the project area, close to the entry/exit gate of the underground parking should be implemented strictly.
8. The stipulated FAR as per rule should be complied with.
9. Water efficient plumbing features for saving water use should be adopted.
10. The Project Proponent should make provision for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
11. Vegetation should be developed appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
12. Green belt should be developed along the periphery of the site with indigenous species.
13. The CER Plan should be implemented during the first two years and it should be operated/maintained during the rest of the period of EC.
14. Exposed roof area and covered parking should be covered with material having high solar reflective index
15. Building design should cater to differently-abled citizens
16. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow
17. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
18. Construction work should be carried out during day time only.
19. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
20. All vehicles carrying construction materials should be fully covered and protected.
21. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
22. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
23. Occupational health safety measures for the workers should be taken during the construction.
24. All vehicles during the construction phase should carry PUC certificate.

25. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with appropriate acoustic enclosure.
26. Compensatory afforestation should be carried out in all the four proposed sites afresh or in public places with the required number of seedlings with adequate protective measures and to upload the progress along with geo-tagged photographs in the HYCR.

**Item No.04 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ashraf. P for an area of 2.3203 Ha at Re.Sy.No.172 in Kodyathur Village, Kozhikode Taluk, Kozhikode.
(SIA/KL/MIN/138725/2020 1653/EC4/2020/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 4,46,764 MT with an annual production of 44,676 MT. The life of Mine As per Mine Plan is 10 Years. As per the Additional documents of 151st SEAC meeting the revised project cost is Rs. 2,74,87,888/-. The depth to water table is 4m bgl at 85m above MSL. The highest elevation of the proposed area is 190m MSL and lowest elevation of the proposed area is 95m MSL. Mining is proposed only up to 130m above MSL. The boundary pillar BP1 falls in medium hazard zone. The distance to High Hazard Zone is 6.47Km. The distance to nearest house is 200m. A shed is located at a distance of 63.3m. **Based on discussions, the Committee decided to recommend EC for a period of 10 years subject to the (i) submission of the approval of the District Level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05-2014 as part of the mining area falls in the moderate hazard zone and (ii) following specific conditions in addition to the general conditions:**

1. The green belt using indigenous species of trees, herbs and climbers should be initiated prior to the commencement of mining.
2. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees as proposed.
3. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
4. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
5. The haulage road should be provided with sprinkling facility to prevent dust pollution.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channels should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration

9. 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.
10. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
11. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
12. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. 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
16. The 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. dump plan
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.
18. The abandoned benches may be backfilled and suitable species including fodder grass and other species adapted to such situations.

**Item No.05 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, Kerala.
(SIA/KL/MIN/159687/2020, 1853/EC2/2020/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 2,87,255 MT with an average annual production of 57,451 MT. The life of mine is 5 years. The Project cost is 90 Lakh. The highest elevation of the proposed area is 95m AMSL and lowest elevation is 70m AMSL. The depth to water table is 12m below ground level. The ultimate depth of the working of the quarry is 60m above MSL. The distance to nearest house is 77.4m. The distance to high hazard zone is 640m and the distance to Moderate Hazard Zone is 12.62km. **Based on discussions, the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions:**

1. Protective measures for the Surangam and the pond as committed by the Project proponent should be complied with.
2. The green belt using indigenous species of trees, herbs and climbers should be initiated prior to the commencement of mining.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees as proposed.
4. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
5. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
6. The haulage road should be provided with sprinkling facility to prevent dust pollution.
7. 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.
8. Garland drain, silt-traps, siltation ponds and outflow channels should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
9. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
12. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
13. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
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 restroom 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. The 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. dump plan
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.06 Environmental Clearance for the Granite Building Stone Quarry of Sri. K.C Krishnan for an area of 0.6199 Ha at Re.Sy. No. 173/1 & 173/3 in Maruthonkara Village, Vatakara Taluk, Kozhikode. (SIA/KL/MIN/183677/2020, 1849/EC4/2020/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found the satisfactory. The project proponent submitted the proof of application for wildlife clearance. As per the application, the total mineable reserve is 1,12,547.617 MT and annual production is 22,509 MT. The life of mine is 5 years. The highest elevation of the proposed site is 130 m above MSL and the lowest elevation is 100 m above MSL. The total Project cost is Rs. 60 Lakh. The groundwater level measured from the nearest well is about 11m bgl. The distance to Malabar Wildlife Sanctuary is 4.34Km. As per the survey map a quarry office is at a distance of 29m and the Proponent has submitted an affidavit stating that the building will be used only for storage of mining utilities. **Based on discussions, the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions:**

1. A buffer of 50m should be maintained between the project boundary and built structures.
2. Considering the depth to water table, the mining depth should be limited to 90m above MSL.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. 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).
9. 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.
10. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
11. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.

12. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.07 Environment Clearance for the Laterite building stone quarry of Sri. Jayakrishnan for an area of 0.6824 Ha at Re Survey No. 2/5, 5/2 in Ongallur-1 village, Pattambi taluk, Palakkad, Kerala. (SIA/KL/MIN/272889/2022, 2144/EC1/2022/SEIAA)

The committee verified the proposal and observed that the SEAC in its 149th meeting, recommended EC for the mine life of 3 years, subject to certain Specific Conditions in addition to the General Conditions. But as per the decision 134th SEIAA meeting the proposal was referred back for re-examination to prevent the drainage of waste/topsoil and run off water to nearby wells and fields. The PP has submitted detailed plan and documents regarding the storage of overburden and mine waste and to prevent damaging drainage. The committee discussed the plan and found it satisfactory. **Accordingly, the Committee decided to adhere to its earlier decision to recommend EC for a period of 3 years subject to the following specific conditions in addition to the general conditions:**

1. The PP should implement the plan to prevent drainage of waste/topsoil and run off water to nearby wells and fields
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 such 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 5.00 pm)

Item No.08 **Environmental Clearance for Granite Building Stone Quarry project of Sri. George K Vallamattam, Managing Partner, M/s Malabar Stone, for an area of 3.4763 Hectares at Sy. Nos. 123/1805, 123/1816, 123/1826, 123/1994 & 123/ 2150 in Thinur Village & Survey Nos. 116/31, 116/32, 116/33, 116/34, 116/35, 116/36, 116/43 & 116/44 in Narippatta Village, Vadakara Taluk, Kozhikode.**
(SIA/KL/MIN/407396/2022, 2195/EC4/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The PP also submitted the NOC from the District Level Crisis Management Group for mining. As per the application, the mineable reserve is 10,77,300 MT. The project cost is Rs. 3.0 Crores. The life of mine is 10 years. The depth to water table is 5 m below ground level. The highest elevation of the proposed area is 240 and the lowest elevation is 155m AMSL. The distance to high hazard zone is 589m. A portion of the site falls in the medium hazard zone. The distance to the nearest house is 201.3m. **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. The mining should be limited to 155m above MSL considering the depth to water table.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.

4. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
11. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
12. The haulage road should be provided with sprinkling facility to prevent dust pollution.
13. 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 5.00 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. 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
16. The 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. dump plan
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.09 **Granite Building Stone quarry project of Sri. Thomas Varghese for an area of 0.8970 in Block No. 28, Survey Nos. 496/2, 496/2-1, 496/3, 496/4, 496/14, 497/4-1-1 of Mallappally Village, Mallappally Taluk in Pathanamthitta (SIA/KL/MIN/409822/2022, 2161/EC1/2022/SEIAA)**

The Committee noted that the Project was presented before the in the 142nd meeting of the SEAC and sought additional documents. The Committee observed that in the 158th meeting the Committee decided to give one more chance to the PP to submit the revised additional documents with factual data/feasible plans and details. The Committee scrutinized the additional documents submitted and found that some of the additional documents submitted are incomplete and need revision. **Therefore, the Committee decided to give one more final chance to the Proponent to submit the additional documents with all details within one month.**

1. Road development plan should comply with the conditions stipulated in the GO (P) No. 59/2015/Trans dt. 29.9.2015 that goods vehicle having loading capacity of more than 10 tons is prohibited on roads with widths less than 8m.
2. Modified CER catering to the water demands of the settlement should be submitted along with proof of stakeholder consultation.
3. Revised EMP cost should not include the cost of road development plan as it should be incorporated in the Project Cost.
4. Revised EMP cost should include the CER cost, both non-recurring and recurring cost.
5. Revised Project Cost incorporating the cost of road development plan and revised EMP cost.

Item No.10 **Environmental Clearance for Granite Building Stone Quarry of Sri. Deepak Jose, Managing Director, M/s.Optimum Granites Pvt Ltd for an area of 2.1044 ha at Survey No. 274 in Thirumittacode-II Village, Pattambi Taluk, Palakkad, Kerala. (SIA/KL/MIN/415585/2023, 1418/EC1/2019/SEIAA)**

The Committee examined the proposal and verified the additional documents submitted which are satisfactory. As per the mining plan, the mineable reserve is 603813MT, the average annual production is 60381.3 MTA and the mine life is 10 years. The highest elevation of the lease area is 160 m MSL and lowest is 115 m MSL. The depth to water table is 4m bgl. The nearest house is at 103m. There are no wildlife sanctuary within 10km from the project boundary and the proposed site does not fall in any landslide hazard zone. The Kochusheema Forest is at 588m in SW side and Erumapetty Forest Station is situated at 1.45km on southern side. Considering the depth to water table, the mining should be limited to 115m above MSL. **The Committee noted that the EIA report has various shortcomings and the Committee decided to direct the SEIAA secretariat to place the evaluation report without further delay.**

Item No.11 **Environmental Clearance for the Granite Building Stone Quarry of Sri. A M Chackochan, M/s Aishwarya Granites for an area of 0.6803 Ha at Re-Sy. No. 121/2 part in Elamadu Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/422678/2023, 1675/EC2/2020/SEIAA)**

The Committee verified the integrated EMP submitted by the Project Proponent and it is not satisfactory as it does not address the cumulative environmental consequences, management/mitigation of environmental issues, monitoring of environmental aspects and the environmental management plan including the budget estimates. **Therefore, the committee decided to direct the Proponent to prepare a revised and detailed integrated EMP, which should be site specific and address all the above said aspects of all the projects in the vicinity for which the Proponent obtained EC in addition to the proposed project. As decided in the 113th meeting of SEIAA, the integrated EMP should be prepared by a NABET Accredited consultant.**

Item No.12 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Kareem, M/S. U. K. Granites for an area of 0.5009 Ha at Block No.03, Re-Survey Nos.29/39, 29/37, 29/41, 29/40, 29/38, 29/47 in Edayur Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/423070/2023, 2254/EC6/2023/SEIAA)**

The Committee examined the proposal and verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 1,19,940 MT with an average annual production of 39,980MT. The life of mine is 3 years. The project cost is 1 crore. The site elevation vary from 90m to 100m above MSL and depth to water table is 8m bgl. Considering the depth to water table, the depth to mining has to be limited to 85m above MSL instead of 75m above MSL as proposed in the mine plan. The distance to the nearest house is stated as 310m. The proposed site does not fall in any landslide hazard zone. **Based on discussions, the Committee decided to recommend EC for a period of 3 years subject to the following specific conditions in addition to the general conditions:**

1. The depth of mining should be limited to 85m AMSL considering the depth to water table.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
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. 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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
11. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
13. Adequate sanitation, waste management and restroom 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. The 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. dump plan
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.13 Environmental Clearance for the proposed Laterite building stone quarry of Sri. Mohammed Chakkingal for an area of 0.1858 Ha at Re-Survey No.172/3206 in Kodyathoor Village, Kozhikode Taluk, Kozhikode. (SIA/KL/MIN/423117/2023, 2282/EC4/2023/SEIAA)

The Committee examined the proposal and observed that the 155th SEAC recommended EC for 2 years for the proposal by limiting the depth of mining to 2m considering the depth to water table as 4m below ground level. The 137th meeting SEIAA referred back the proposal to verify the feasibility of the project in the background of limiting the depth of mining. Now the Project Proponent submitted the geotagged photographs of adjacent mines where the depth is around 4m and the soil thickness is scanty. **In this context, the committee decided to adhere to earlier decision to recommend EC for 2 years by limiting the depth of mining 4m bgl with 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 4m bgl considering the groundwater table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The top soil and mine waste should not be stored in the slope area and the storage area should be protected with temporary retaining wall.
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 one 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 5.00 pm)

Item No.14 Environmental Clearance for the Granite Building Stone Quarry project of Sri. Jayarajan .V for an area of 0.8881 Ha at Block No-2, Re-Survey Nos. 110/37pt, 110/28pt, 110/29pt, 110/33pt & 110/35 in Pattazhy Vadakkekara Village, Pathanapuram Taluk, Kollam. (SIA/KL/MIN/429372/2023, 2371/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 209125 MT. The life of mine is 3 years. The total project cost is Rs.1.23 crore. The distance to nearest house is 52m. The highest elevation of the permit area is 108m AMSL and the lowest is 92 m AMSL. The depth to water table is 8m bgl at 67m AMSL. The high hazard zone is at 15.6 Km and moderate hazard zone is at 8.10 Km. **Based on discussions, the Committee decided to recommend EC for a period of 3 years subject to the following specific conditions in addition to the general conditions:**

1. The depth of mining should be limited to 85m AMSL considering the depth to water table.
2. A temporary protective wall of height 3m should be erected making use of light roofing sheets around the project area where houses are located, especially connecting BP1, BP11, BP10, BP8 and BP9 to avoid disturbance to the nearby houses.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan

18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.15 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Khaja Hussain K.K, M/s Khaja Granites for an area of 1.2506 Ha at Sy.Nos.34/IA-78, 34/1A-79, 34/1A-80 in Kariyavattom Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/431505/2023, 2299/EC6/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The mineable reserve is 3,36,390 MT. The mine life is 5 years. The project cost is 1.20 crore. The highest elevation of the proposed area is 130 m and the lowest elevation is 115 m. The depth to water table is 8m bgl. The nearest house is at a distance of 205 m. The distance to the high hazard zone is 14.6 km and to the medium hazard zone is 1.7 km. **Based on discussion, the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions:**

1. The available trees, including rubber trees, in the buffer zone should be retained and augmented with indigenous species, as mentioned in the biodiversity assessment report prior to the commencement of mining as part of green belt development prior to the commencement of mining.
2. Barbed wire fencing to be provided also to the nearby abandoned quarry owned by the Proponent, before the commencement of the present project
3. The haulage road should be protected with adequate side protection measures considering the steepness of terrain.
4. The depth of mining should be limited to 107m MSL, considering the depth to water table.
5. A temporary protective wall of height 3m making use of light roofing sheets should be erected around the project area where houses are located, especially connecting BP1 to BP4 to avoid disturbance to the nearby houses
6. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
7. 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.
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
12. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
13. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
14. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
16. Adequate sanitation, waste management and restroom 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. The 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. dump plan
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
20. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.16. Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Haridarsh B. S. for an area of 0.6910 Ha at Block No. 8, Re- Survey Nos. 12/16, 12/23, 12/24, 13/2, 13/11 -2, 13/13, 13/13-2, 13/13-2-2 in Neduvathoor Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/432336/2023, 2372/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 40100 MTA. The life of mine is 3 years. The total project cost is Rs. 1.05 crore. The nearest house is at 55m. A primary school is situated at 360 m. The highest elevation of the permit area is 105 m AMSL and lowest is 82 m AMSL. The depth to water table is 7m bgl at 53m AMSL. The high hazard zone is at distance of 26 km and the medium hazard zone is at a distance of 15 km. **Based on discussion, the Committee decided to recommend EC for a period of 3 years subject to the following specific conditions in addition to the general conditions:**

1. The depth of mining should be limited to 75m AMSL considering the depth to water table.

2. A temporary protective wall of height 3m making use of light roofing sheets should be erected around the project area where houses are located, especially connecting BP1 and BP8 to avoid disturbance to the nearby houses
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of the CER Plan should be done during the first year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.17 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)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 525433 MT. The life of mine is 5 years. The project cost is 2 crores. 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 distance to the nearest built structure is 105.4 M. The depth to water table is 7m bgl at 45msl. The highest elevation of the permitted area is 110m MSL and lowest elevation of the permitted area is 91m MSL. **Based on discussion, the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions:**

1. The depth of mining should be limited to 80m AMSL considering the depth to water table.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
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. 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. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
10. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR

11. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
12. The haulage road should be provided with sprinkling facility to prevent dust pollution.
13. 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 5.00 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. 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
16. The 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. dump plan
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.18 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Safer K for an area of 0.9796 Ha at Block No.77, Re.Sy.No. 325/1-1 in Thiruvalli Village, Nilambur Taluk, Malappuram. (SIA/KL/MIN/436281/2023, 2373/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per application, the total mineable reserve is 359856 MT with an annual production of 119952 MTA. The life of mine is 3 years. The total project cost is Rs.120 lakh. The highest elevation of the permit area is 105 m AMSL and the lowest is 92 m AMSL. The depth to water table is 8m bgl at 47 AMSL. There is a building at 45m from the project boundary and the Proponent submitted an affidavit stating that he will maintain a buffer zone of 50m between the building and project boundary. The high hazard zone at a distance of 12km and the medium hazard zone is at a distance of 8.63km. **Based on discussion, the Committee decided to recommend EC for mine life of 3-years subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining should be limited to 85m AMSL considering the depth to water table.
2. The mining should be done after providing a buffer distance of 50m between the building and project boundary.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.

5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. Garland drain, silt-traps, siltation ponds and outflow channels 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

**Item No.19 Environmental Clearance for the Granite Building Stone Quarry Project of Sri.Ajayan Joseph, Managing Partner, M/s. K & K Granites for an area of 0.9920 Ha at Survey No: 32/2 in Purappuzha Village, Thodupuzha Taluk, Idukki.
(SIA/KL/MIN/446443/2023, 2440/EC2/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 224600 MT with annual production of 74800 MTA. The project cost is Rs.1.5 crore. The life of mine is 3 years. The highest elevation is 140 m above MSL and lowest is 120 m above MSL. The medium hazard zone is at 929 m. The depth to water table is 8 m below ground level and therefore, mining may not be feasible beyond 112m above MSL. The nearest house is at 108.9 m. **Based on discussion, the Committee decided to recommend EC for a period of 3 years subject to the following specific conditions in addition to the general conditions:**

1. The depth of mining should be limited to 115m above MSL considering the depth to water table.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
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. 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. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
10. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
11. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
12. The haulage road should be provided with sprinkling facility to prevent dust pollution.

13. 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 5.00 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. 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
16. The 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. dump plan
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.20 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Rajan M for an area of 0.7989 Ha at Block No.05, Re Survey No: 172/1-2 in Kuruva Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/448740/2023, 2429/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 76893 MT with annual production of 25631 MT. The life of mine is 3 years. The project cost is Rs.21,06,250/-. The nearest house is at 51.7 m. There are two more houses are at 52.7 m. The depth to water table is 9m bgl at 138m AMSL. The medium hazard zone is at distance of 3.10 km. The depth of mine is 5.5m bgl. **Based on discussion, the Committee decided to recommend EC for 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/laborers 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 Granite Building Stone Quarry of Sri. Biju M.K for an area of 4.5000 Ha at block no. 46, Re-survey nos. 158/4-3, 158/10, 158/5, 158/6, 158/12-2, 158/7-2, 158/8, 160/18, 160/23-3, 160/23-2, 160/22, 160/20-3-2-2, 164/12, 164/13, 164/1, 164/12-2, 164/2, 164/4-1, 164/5 (patta land), 158/11, 161/pt, 161/pt, 160/17, 160/23 (govt land) in Ittiva Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/449132/2023, 2415/EC1/2023/SEIAA)

The Committee scrutinized the additional documents submitted by the Project Proponent and found them satisfactory except the Plan for maintaining a buffer of 50m between the project boundary and the crusher and other buildings near the proposed site. **Therefore, the Committee decided to direct the Proponent to submit revised plan for maintaining a buffer of 50m with the crusher unit. The committee also discussed the judgment in WP (C) 12758/2024 dated 03/04/2024 and decided to hear the petitioner in the next meeting.**

Item No.22 Environmental Clearance for Granite Building Stone Quarry Project of Sri. T. Abdul Rahiman for an area of 1.0514 Ha at Re Survey No. 172 in Kodyathur Village, Kozhikode Taluk, Kozhikode. (SIA/KL/MIN/45319/2019, 1499/EC3/2019/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 3,36,500 MT. The life of mine is 10 years. The project cost is Rs.175 Lakhs. The nearest house is at 101.7m and depth to water table is 7m bgl. The general elevation of the site varies from 100m to 145m above MSL. The Project area falls within the medium hazard zone. The high hazard zone is at a distance of 7.32 Km. The Proponent submitted the approval of the District Level Crisis Management Group for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05-2014. **Based on discussion, 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. The depth of mining should be limited to 95m above MSL considering the depth to water table.
2. A temporary protective wall of height 3m should be erected connecting the boundary pillars BP11, BP1, BP2, BP3, BP4, BP5 and BP6.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.23 **Environmental Clearance for the Granite Building Stone Quarry mining project of Sri. P.V Santhosh, for an area of 4.7668 Ha., situated at Survey. No. 279/2, 279/3-1, 279/3-2, 278//1-1, 278/1-3, 278/1-2, 284/2-2, 284/2-3, 284/2-4, 284/2-1 in Mazhuvannoor Village, Block No. 29, Kunnathunad Taluk, Ernakulam.**
(SIA/KL/MIN/72018/2019, File No: 1470/EC3/2019/SEIAA)

The Committee examined the proposal, discussed the field inspection report and verified the additional documents submitted by the project proponent which is found satisfactory. The total mineable reserve is 28,36,420 MT (3,31,285 MTA) and the mine life is 12 years. The highest and lowest elevation are 84 m and 60m respectively. The proposed depth of mining is 0m above MSL but considering the depth to water table mining is feasible only up to a depth of 50m above MSL. Accordingly, the Proponent has submitted sworn affidavit stating that he will reduce the life of mine to four years thereby the proposed depth of mining will be 50m above MSL and proposed mineable reserve will be only 13,95,603 MT. **Based on discussions, the Committee decided to recommend EC for a period of 4 years subject to the following specific conditions in addition to the general conditions:**

1. A buffer distance of 50m should be provided between the project boundary and the crusher.
2. The protective measures proposed to minimize the impact of mining on the houses located at a distance of 54 m should be adopted prior to commencement of mining.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. 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.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak

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

11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first one year of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
15. Adequate sanitation, waste management and restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.24 Environmental Clearance for Granite Building stone Quarry of Sri. Eldho Issac for an area of 4.7023 Ha at Survey. No. 208/1 of Alanallur- III Village, Mannarkkad Taluk, Palakkad, Kerala (SIA/KL/MIN/72951/2022, 1590/EC1/2019/SEIAA)

The Committee scrutinized the Additional documents submitted by the project proponent and found satisfactory except for the following.

1. The traffic study report has not estimated the PCU and highest traffic flow during peak time (9-11 am) and the PCU capacity of 5 roads are not provided. Therefore a conclusion from the traffic study could not be made as required.
2. The committee specifically highlighted the need for incorporating watershed conservation measures proposed by the Proponent in the case of Puliyaithodu for which detailed recommendations are not provided.
3. Clarification regarding the operation of quarries by the project proponent in and around the proposed site

Based on discussion, the committee decided to direct the project proponent to submit the above additional documents and clarification at the earliest so as to take a final decision.

PART – 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.01 Environmental Clearance for the Construction of Residential Building ‘Confident Legacy’ at Survey Nos. 413/2-2, 413/2-4, 413/3-3, 413/4-4, 455/3-3, 413/17-3 in Poonithura Village, Kanayannur Taluk, Ernakulam. (SIA/KL/INFRA2/443168/2023, 2394/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total plot area is 0.4255ha. The proposed area is 21,409.42 m² with 15 floors, a basement, and a Ground Floor (88 dwelling units). The height of the built-up structure is 53.40m. The proposed project cost is Rs 4100 lakh. The water requirement during the construction phase is 15 KLD. The source of water for the proposed construction is a bore well, open well, and piped supply by KWA. **Based on discussions the Committee recommended EC for 10 years for the proposal subject to the following Specific Conditions in addition to the General Conditions.**

1. The construction activities shall be initiated after getting the Wildlife Clearance from the SCNBWL.
2. The ground level shall be raised by 1 to 1.5m to avoid the inflow of storm water from NH.
3. Runoff from the site shall be minimized till the Corporation thodu is fully functional.
4. The FAR norms should be complied with strictly.
5. The guidelines for green rating and green building certification to buildings based on green standards issued by Government of Kerala vide GO (MS) No. 39/2022/LSGD dated 25.2.2022 should be adhered to.
6. Green belt surrounding the campus, avenue tree planting, and garden development should commence from the beginning of the construction phase. Suitable local species should be used for green belt and avenue trees.
7. Vegetation should be developed appropriately on the ground as well as over built structures such as roofs, basements, podiums, etc.
8. Adequate safety gadgets and instruments should be provided to the people engaged in the treatment of solid as well as liquid wastes. Periodic checkups regarding the health status of the people should be undertaken.
9. The Kerala Energy Conservation (Building Code) Rules 2017 should be complied with.
10. Energy conservation measures as proposed in the application should be adopted in total. The PP should examine the scope for improving energy conservation measures periodically and should implement the same.
11. Periodic monitoring of water samples from the groundwater sources should be carried out. Adequate treatment methods should be followed to remove the contaminants.
12. The existing STP should be augmented with SBR, including Tertiary Treatment Unit to ensure quality of treated water for re-use /recycle for flushing / gardening/ firefighting/ recharge of local ground water as per the plan submitted.

13. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
14. The proponent should implement the drainage plan as proposed.
15. Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
16. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
17. The Project Proponent should make provision for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
18. Climate responsive design as per Green Building Guidelines in practice should be adopted
19. Exposed roof area and covered parking should be covered with material having high solar reflective index
20. Building design should cater to differently-abled citizens
21. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow
22. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
23. Construction work should be carried out during day time only.
24. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
25. All vehicles carrying construction materials should be fully covered and protected.
26. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
27. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
28. Occupational health safety measures for the workers should be taken during the construction.
29. All vehicles during the construction phase should carry PUC certificate.
30. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.

Item No.02 Environmental Clearance for the Commercial Building of Sri. Saidalavi at Block No:001, Resurvey nos 27/10-109,27/10-110,27/10-111 in Kuruva Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/INFRA2/444437/2023, 2419/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total built up area is 23,837.33 m² and the plot area is 8117.08 m². The maximum height of the building is 27.55 m. The total project cost is Rs.39.61 crore. The FAR is 1.96. The water requirement during construction stage is 28 KLD and the operational stage it is 76 KLD. **Based on discussion, the Committee recommended EC for 10 years for the proposal subject to the following Specific Conditions in addition to the General Conditions.**

1. The FAR norms should be complied strictly.
2. The guidelines for green rating and green building certification to buildings based on green standards issued by Government of Kerala vide GO (MS) No. 39/2022/LSGD dated 25.2.2022 should be adhered to.
3. Green belt surrounding the campus, avenue tree planting, and garden development should commence from the beginning of the construction phase. Suitable local species should be used for green belt and avenue trees.
4. Vegetation should be developed appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
5. Adequate safety gadgets and instruments should be provided to the people engaged in the treatment of solid as well as liquid wastes. Periodic checkups regarding the health status of the people should be undertaken.
6. The Kerala Energy Conservation (Building Code) Rules 2017 should be complied with.
7. Energy conservation measures as proposed in the application should be adopted in total. The PP should examine the scope for improving energy conservation measures periodically and should implement the same.
8. Periodic monitoring of water samples from the groundwater sources should be carried out. Adequate treatment methods should be followed to remove the contaminants.
9. The existing STP should be augmented with SBR, including Tertiary Treatment Unit to ensure quality of treated water for re-use /recycle for flushing / gardening/ firefighting/ recharge of local ground water as per the plan submitted.
10. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
11. The proponent should implement the drainage plan as per the proposal.
12. Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
13. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
14. The Project Proponent should make provision for the housing of construction labour with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets,

mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).

15. Climate responsive design as per Green Building Guidelines in practice should be adopted
16. Exposed roof area and covered parking should be covered with material having high solar reflective index
17. Building design should cater to differently-abled citizens
18. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow
19. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
20. Construction work should be carried out during day time only.
21. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
22. All vehicles carrying construction materials should be fully covered and protected.
23. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
24. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
25. Occupational health safety measures for the workers should be taken during the construction.
26. All vehicles during the construction phase should carry PUC certificate.
27. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.

Item No.03 Environment Clearance for the Granite Building Stone Quarry project of M/s. Irikkur Rocks Products Private Limited, for an area of 4.8404 Ha. at Block No. 83, Re-Sy. No. 4, in Eruvessy Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/214224/2021, 1900/EC4/2021/SEIAA)

The Committee examined the proposal and discussed the field inspection report conducted on 2.1.2023 and 9.2.2024. As per the application, the total mineable reserve is 1960578 MT with an average annual production of 326763 TPA. The total Project cost is 5.905 Crores. The life of mine is 6 years. The highest elevation of the proposed site is 590m AMSL and the lowest elevation is 460m above MSL. The distance to moderate hazard zone is 20m and the distance to high hazard zone is 50m. The depth to water table is 8m bgl. The distance to the nearest

built structure is 323m. **Based on discussion, the Committee decided to get the following additional documents from the PP for further appraisal:**

1. Revised CER proposal incorporating (i) the assurance given during the Public Consultation (provide Jobs to 100 people and building materials to all the houses in the Panchayat coming under Life Mission), (ii) local needs, if any, in addition to the proposal developed based on limited stakeholder consultation for Rs. 32.5 Lakh and (iii) sorting out the contradiction with respect to the mine life in the mine plan and that stated in the additional documents pertaining to CER proposal
2. Clarification regarding the mine life stated in the CER proposal submitted on 16.12.2023 and as proposed in mine plan, PFR, Form 1M and in the application. It is stated in the application that the mine life is 6 years, but in the CER proposal the mine life is given as 15 years. It is contradictory to the mine life given in the Form 1M, Approved mine plan and Prefeasibility Report. As per the mine plan and PFR, the entire resource is proposed to be extracted within 5 years.
3. Revised feasible production plan as the one suggested in the mine plan and PFR lead to the movement of a 15ton capacity truck from the quarry every 4 minutes. This is not feasible considering the constraints of the site location, road proposed to be developed and the traffic congestion that will result in the public road. The feasibility further reduces with the condition stipulated in the GO (P) No. 59/2015/Trans dt. 29.9.2015 that goods vehicle having loading capacity of more than 10 tons is prohibited on roads with widths less than 8m, such as that of private and panchayat roads.
4. Plan for avoiding traffic congestion in the Panchayat and PWD roads due to increased traffic load from the proposed mine considering the revised feasible production and transportation plan.
5. Affidavit stating that the Proponent will provide an additional buffer of 80m from the boundary line connecting BP2 to BP3 towards south (from the elevation contour of 585m above MSL to 540m above MSL) and carry out mining only from the area with elevation varying from 540m above MSL to 460m above MSL.
6. Affidavit stating that the depth of mine will be limited to 460m above MSL,i.e. up to the ground level only.
7. Affidavit stating the mineable reserve that will be extracted consequent to the provision of additional buffer of 80m in the northern side and reduction in the quantum of mining due to exclusion of proposed portion of the mining due to non-feasibility of mining from the elevation contour of 585m above MSL to 540m above MSL and limiting the depth of mining to 460m above MSL.
8. Affidavit stating that the additional buffer zone of 80m width at the northern side of the proposed area will be planted with trees, bushes and climbers of indigenous species
9. Affidavit stating that the Proponent will provide an additional garland drain outside the boundary of the proposed site in addition to the proposed drainage plan to provide augmented drainage as an additional safeguard.

Item No.04 Environmental Clearance for the Granite Building Stone Quarry of Sri. Venesh S., for an area of 2.0110 Ha. at Block No. 66, Re Survey Nos. 292/1194, 292/6358, 292/2642, 292/6357, 292/5700, 292/4163, 292/3209, 292/3455, 292/1619, 292/159, 292/3513, 292/1612, 292/747 in New Naduvil Village, Thaliparamba Taluk, Kannur. (SIA/KL/MIN/407136/2022, 2156/EC4/2022/SEIAA)

The Committee discussed the field inspection report conducted on 09.02.2024 and noted the following salient aspects in the field:

- a. Slope is generally steep in the proposed area and it is extremely steep at the northern flank of the hill outside the proposed project area.
- b. There are larger sized boulders present at the northern side of the project area and its surroundings.
- c. An abandoned and dilapidated building is found in the project area.
- d. The mine plan that obtained deemed approval indicated that the life of mine is 12 years and mineable reserve is 851275 MT. The Mine plan that obtained approval from the Geologist vide letter DOKAN-DMG/2442/2022-M dated 16-10-2023 indicated that the life of mine is 5 years and the mineable quantity is 6,25,350 MT.
- e. About 30% of the proposed project area near BP 4 and BP7 falls within moderate hazard zone. At southern part medium hazard zone located at 21m.
- f. Approach road need development and maintenance.
- g. The depth to water table attached to the mine plan is 15m bgl and in another document it is given as 7m bgl. The mine void proposed is 20m and therefore mining will intercept water table.

Based on the above observations and discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:

1. Plan for providing an additional buffer for the northern boundary of the proposed site as a measure to protect the extreme steep slope hill flank just outside the northern boundary of the proposed project area.
2. Plan for safe removal of boulders present in the area as there are significant number of larger sized boulders present at the northern side.
3. Plan for demolishing the abandoned and dilapidated building found in the project area.
4. Plan for development of haulage road.
5. Revised EMP considering the terrain fragility of the site as the EMP given is not site specific. The revision should be made for the EMP budget as well.
6. Revised project cost as the one provided is not comprehensive and lack clarity.
7. Approval of the District Level Crisis Management Committee as the project site fall in moderate hazard zone.
8. Digital Elevation Model of the site and surroundings.
9. Soil thickness along the north-south and east-west profiles in the project site.

10. Detailed compensatory afforestation plan along with geo-tagged photographs of the alternate site, species proposed to be planted and ownership details of the land as the site proposed is vegetated
11. Clarification regarding the mineable reserve and life of mine and the reason for the different figures in the mine plan which obtained deemed approval and approval from the Geologist on 16.10.2023
12. Clarification regarding the depth to water table below ground level along with geo-tagged photographs of the well, distance from the project boundary, elevation above MSL of the well site.

Item No.05 Environmental Clearance for Granite (Building Stone) Quarry project of Sri. Shamsudheen for an area of 4.5622 Ha. at Survey No 1 in Udayagiri village, Taliparamba Taluk, Kannur. (SIA/KL/MIN/411554/2022, 2224/EC4/SEIAA/2023)

The Committee discussed the decision of 138th SEIAA directing to re-examine the proposal for assessing the feasibility of mining in the highly sensitive area. The proposed area is located in the mid-slope of a hill with very steep slope and engulfed in the high-hazard zone at a distance of around 13m and is having an elevation difference of 570m to 670m above MSL on the steep slope of a hill with maximum elevation of about 725m above MSL. The Authority noticed that as per the shape files provided by the Kerala Forest Department the proposed project area is in vested forest under Kannur Division having a status of reserve forest where mining is prohibited. **Based on discussion, the Committee decided to re-examine the proposal for assessing the feasibility of mining in the highly sensitive area and entrusted a Sub-committee consisting of Sri. S. Sheik Hyder Hussain, Dr. A. N. Manoharan and Dr. Mahesh Mohan for the task and report at the earliest.**

Item No.06 Environment Clearance for the Granite Building Stone Quarry project of M/s RDR Crushers Pvt. Ltd., 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 in Chengalam East Village, Kottayam Taluk, Kottayam (SIA/KL/MIN/417135/2023; 2233/EC3/2023/SEIAA)

The Committee examined the proposal and discussed the field inspection report conducted on 23/03/2024. As per the application, the mineable reserve is 9,76,465 MT with an average annual production of 2,00,000 MTA. The mine life is 5 years. The project cost is Rs. 5.68 Crore. The highest elevation of the proposed area is 115 m AMSL and the lowest elevation is 95 m AMSL respectively. The lowest bench proposed is at 75m above MSL and the lowest bench at the nearby old mine is at 67 m above MSL. Therefore, the proposed mining is not expected to intersect the groundwater table. The distance to nearest house is 50.38 m. The moderate hazard zone is at distance of 9.39 km and the high hazard zone is at a distance of 9.39km. All the buildings present in the site are now demolished. The OB dump is proposed in one part of the old mine void. **Based on discussion, the Committee decided to**

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

1. The green belt should be initiated prior to the commencement of mining using indigenous species.
2. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
8. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
9. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
11. The haulage road should be provided with sprinkling facility to prevent dust pollution.
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 5.00 pm).
13. Adequate sanitation, waste management and restroom 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. The 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. dump plan
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.07 Environmental Clearance for Granite Building Stone Quarry of Sri. Sunil Chandran, Managing Director, M/s. Empire Crushers Private Limited for an area of 1.2784 Ha, at Block No.16, Re-Survey Nos.143/8-1, 143/9-1, 143/9- 2pt, 144/4pt, 144/14pt, 144/15pt in Anad Village, Nedumangadu Taluk, Thiruvananthapuram, Kerala.
(SIA/KL/MIN/434229/2023, 2307/EC1/2023/SEIAA)

The Committee decided to defer the item for scrutiny in the next meeting.

Item No.08 Environmental Clearance for the Proposed Granite Building Stone Quarry (Minor Mineral) of Sri. Syam G Raj for an area of 3.4519 ha. at Block no. 33, Re-survey Nos: 144/1, 144/2, 144/3, 144/4, 144/5, 144/7, 144/8, 144/9, 144/10, 144/11, 144/12, 143/1, 143/3-1, 143/3-2, 143/7, 143/15, 143/16, 145/4 of Pazhayakunnummel Village, Chirayinkeezhu Taluk, Thiruvananthapuram.
(SIA/KL/MIN/438519/2023, 2427/EC3/SEIAA/2023)

The Committee decided to defer the item for scrutiny in the next meeting.

Item No.09 Environmental Clearance for Granite Building Stone Quarry of Sri. Binoj .K. Baby, M/s. Pulpally Stone Crushers for an area of 1.7403Ha at Survey Nos. 256/2, 256/3,257/1,257/2,257/3,257/6,257/7 in Padichira Village, Sultan Bathery Taluk, Wayanad.
(SIA/KL/MIN/439177/2023, 2402/EC6/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 4,18,885 MT with annual production of 34,907.1 MTA. The life of mine is 12 years. The total project cost is Rs. 266 Lakh . The highest elevation of the permit area is 745 m above MSL and lowest is 731 m above MSL. The depth to water table is 6m bgl. The medium hazard zone is at 2.68 km and the high hazard zone is at 13.78 km. There is a building at 29 m and the nearest habitation is at 55m. **Based on discussions, the Committee decided to recommend EC for mine life of 12 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Buffer distance of 50m should be maintained from the boundary of the project area to the nearest built structure.
2. The depth of mining should be limited to 725m above MSL.
3. A temporary protective wall of height 3m should be erected making use of light roofing sheets around the project area where houses are located to avoid disturbance to the nearby houses.
4. The green belt should be initiated prior to the commencement of mining using indigenous species.

5. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. 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).
9. 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.
10. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
11. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
12. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
13. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
14. The haulage road should be provided with sprinkling facility to prevent dust pollution.
15. 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).
16. 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.
17. 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 5.00 pm).
18. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
19. 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
20. The 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. dump plan
21. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

22. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.10 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Sasidharan Murikyal for an area of 0.1942 Ha at Re-Survey No. 46/933 in Kalliad Village, Iritty Taluk, Kannur. (SIA/KL/MIN/445528/2023, 2431/EC4/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 19,420 MT with a recoverable quantity of 13,594MT. The life of mine is 1 year. The project cost is Rs. 6.02 lakhs. The depth to water table is 8m bgl at 168m AMSL. The distance to medium hazard zone is 2.10km. The cluster certificate 20/01/2024 states that there is no cluster situation. **Based on discussions, the Committee decided to recommend EC for mine life of 1year 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/laborers 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 5.00 pm)

Item No.11 Environmental Clearance for the mining of Ordinary earth by Sri. Paul Varghese for an area of 0.9099 Ha at Re. Survey Nos. 306/1-4, 306/1-5 in Keezhmad Village, Aluva Taluk, Ernakulam. (SIA/KL/MIN/447154/2023, 2436/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 45,495 MT with annual production of 22,747.5 MT. The life of mine is 2 years. A church is situated at 67 m and a mosque at 84 m. The project cost is Rs.25 lakh. The depth of mining is mentioned as 2.5 m. As per the additional document submitted, the depth to water table is reported as 8m below ground level. The distance to high hazard zone is 24.64 km and the distance to moderate hazard zone is 17.81 km. **Based on discussion, the Committee decided to recommend EC for mine life of 2years 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/laborers 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 5.00 pm)

Item No.12 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Prakasan C.V. for an area of 0.1944 Ha at Bock No. 70, Re-Survey No. 49/689, 49/1039 in Nidiyenga Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/447673/2023, 2416/EC4/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found that as per the survey map there is a built structure at a distance of 29m. Hence the PP can't ensure the compliance of distance criteria. **Therefore, the Committee decided to recommend rejection of the application.**

Item No.13 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Prakasan C.V. for an area of 0.0972 Ha at Bock No.070, Re-Survey No. 49/336 of Nidiyenga Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/448853/2023, 2413/EC4/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found that as per the survey map there is a built structure at a distance of 22.8m. Hence the PP can't ensure compliance of distance criteria. **Therefore, the Committee decided to recommend rejection of the application.**

Item No.14 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Mehroof Ali Thahir for an area of 0.9714 Ha at Re-Survey Nos.34/2 (34/206) in Chekyad Village, Vadakara Taluk, Kozhikode. (SIA/KL/MIN/449123/2023, 2424/EC2/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The total mineable reserve is 1,45,710 MT with an annual production of 33,999 MTA. The life of mine is 3 years. The total project cost is Rs.20 lakh. The highest elevation of the area is 151 m above MSL and lowest is 132 m above MSL. The depth to water table is 8m bgl. The ultimate working depth is reported as 125.5m above MSL. A Buds School is at a distance of 930 m from the project site. The distance to moderate hazard zone is 2.51 km and the distance to high hazard zone is 3.5 km. **Based on discussion, the Committee decided to recommend EC for 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/laborers 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 5.00 pm)

Item No.15 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Noufal M.P for an area of 0.5663 Ha at Block No.02, Sy.No. 66/2-30 in Pulamanthole Village, Perinthalmanna Taluk, Malappuram.
(Old proposal No. SIA/KL/MIN/416432/2023, Old file No. 2232/EC6/2023/SEIAA)
(New proposal No. SIA/KL/MIN/449166/2023, New File No.2409/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 1,15,125 MT with annual production of 23,025 MTA. The life of mine is 5 years. The total project cost is Rs.60 lakh. The distance to the high hazard zone is 27.3 km and to the medium hazard zone is 0.64 km. The site is located adjacent to an abandoned quarry. The highest elevation of the permit area is 100 m AMSL and the lowest is 85 m AMSL. The depth to water table is reported as 8m bgl. The depth of mining proposed is 70m above MSL. The nearest house is at 257.3 m. **Based on discussion, the committee decided to recommend EC for 5 years with the following specific conditions, in addition to the general conditions:**

1. The depth of mining should be limited to 75m above MSL.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.

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. 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. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Implementation of CER Plan should be done during the first two years of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
11. The haulage road should be provided with sprinkling facility to prevent dust pollution.
12. 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).
13. 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.
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 restroom 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. The 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. dump plan
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
19. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.16 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Chandradas T, for an area of 0.0972 Ha. at Survey Nos.484/1pt 891 in Pullur Village, Hosdurg Taluk, Kasaragod (SIA/KL/MIN/449770/2023, 2434/EC4/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 6127 MT with a recoverable quantity of 3680 MT. The life of mine is 1 year. The project cost is Rs.10 lakh. The highest elevation is 162 m MSL and the lowest is 161 m MSL. The distance to high hazard zone is 4.2 km and the distance moderate hazard zone is 17.13 km. As per the additional document submitted, the depth to water table is 12m bgl. The PP states that the built structure at distance of 20m is only a temporary one and it has no building number. **Based on discussion, the Committee decided to recommend EC for mine life of 1year 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/laborers 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 5.00 pm)

Item No.17 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Chakko K.M., for an area of 0.0972 Ha at Bock No: 070, Re-Survey No: 49/1055 in Nidiyenga Village, Thaliparamba Taluk, Kannur. (SIA/KL/MIN/450538/2023, 2433/EC4/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 13,365 MT with a recoverable quantity of 9,356 MT. The life of mine is 1 year. The project cost is Rs.3.6 Lakh. The distance to the high hazard zone is 6.20 km and to the medium hazard zone is 2.20 km. The depth to water table is 7m bgl. A shed is situated at 50.3 m. **Based on discussion, the Committee decided to recommend EC for mine life of 1year subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining should be limited to 5m bgl considering the depth to water table
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/laborers 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 5.00 pm)

Item No.18 **Environmental Clearance for Granite Building Stone Quarry of Mr.Jayakumar T, Managing Partner, M/s BTL Rocks& Minerals for an area of 1.0379 ha at Re-Survey No's. 359/2- 1, 359/2-2, 360/5, 360/5-1,360/4-1,360/3-4,360/3-5,360/6-2, 360/6-1, 360/4-2 in Kulathummal Village, Kattakada Taluk, Trivandrum, Kerala.**
(SIA/KL/MIN/450543/2023, 2475/EC3/2023/SEIAA)

The Committee decided to defer the item for detailed scrutiny in the next meeting.

Item No.19 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Christo Cheriyan for an area of 0.3480 Ha at Block No: 211, Re-Survey No: 9/3 in Padiyoor Village, Iritty Taluk, Kannur**
(SIA/KL/MIN/451424/2023, 2442/EC4/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 45,675MT with a recoverable quantity of 31973 MT. The life of mine is 2 years. The project cost is Rs.11.7 lakh. The distance to the nearest house is at 178.4 m. The depth to water table is 7m below ground level. The high hazard zone is at a distance of 5.8km and the medium hazard zone is at a distance of 5km. **Based on discussion, the Committee decided to recommend EC for mine life of 2year subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining to 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/laborers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of the 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 5.00 pm)

Item No.20 Environmental Clearance for the Laterite Building Stone Quarry of Sri. Kunhimammed for an area of 0.2700 Ha at Re-Survey No.19/148 in Koodathai Village, Thamarassery Taluk, Kozhikode. (SIA/KL/MIN/451721/2023, 2455/EC2/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found them satisfactory except the revised CER, which lacks clarity and detailed budget. As per the additional documents, the depth to water table is 10m bgl at 85 m MSL. **Based on discussion, the Committee decided to direct the Proponent to submit revised CER as per the guidelines uploaded in the SEIAA website.**

Item No.21 Environmental Clearance for the Granite Building Stone Quarry of Sri.Sajeev S for an area 4.1792 Ha at survey nos: 302/152, 302/1/157, 302/1/158, 302/1/161, 302/1/159, 302/1/46/378, 302/1/46, 302/1/46/330/384, 302/1/46/330 in Vilakkudy Village, Pathanapuram Taluk, Kollam District. (SIA/KL/MIN/453327/2023, 2470/EC1/2023/SEIAA)

The Committee discussed the field inspection report conducted on 18-2-2024 and noted the following salient aspects observed by the sub-committee:

- a. Part of the project area is an abandoned quarry. The proponent submitted that the quarry was owned by another person but the land belonged to him.
- b. No benches are provided in the existing quarry. Since this area is part of the new project, rectification is possible.
- c. Mine closure certificate from the Mining & Geology Dept. and the Certified Compliance Report from the IRO, MoEFF & CC are not found submitted.
- d. There is a steep slope on the north side near P9, P10, P11 which necessitates protective measures.
- e. The topsoil is proposed to be dumped in an external dump of area 0.4581ha on the east side of the lease area.
- f. 357 trees will be cut from the project area. As per the EMP, 450 saplings will be planted outside the project area (50 each from first to ninth year) and 1300 saplings in the project area.
- g. There are 7 buildings owned by the proponent within 150 meters. The nearest building at 54.5m is proposed to be used as the office of the quarry. There are three other buildings 100-150m away from the project site.

Based on the discussion, the Committee noted the following shortcomings and requirement of additional documents for further appraisal of the application:

1. There are other quarries that are not closed as per the mine closure plan and thereby there is a cluster situation which attracts provision of ToR for EIA study. Clarification is required as to why the Proponent has not applied for ToR for conducting EIA study.
2. Revised compensatory afforestation plan with the planting of trees outside the project area to be undertaken in the first few years. Also, provide geo-tagged photographs of the site for compensatory afforestation
3. Details of the measures to be adopted for minimizing the impact on the houses in the neighbourhood
4. Protection plan for the safe storage of the top soil and OB, geo coordinates of the proposed external OB dump and the details of ownership of the land
5. In the application where the post project land use details are given, the total land area is given as 4.5839 ha while it is given as 4.1792 in the current land use details. The proponent may clarify the difference.
6. The Certified Compliance Report of the abandoned quarry within the project site.
7. Protective measures to be adopted to minimize the impact of mining on the slope on the northern side
8. Detailed plan for energy conservation
9. Mine closure certificate from the M&G Department
10. Revised EMP prepared by NABET accredited EIA Consultant as decided by the SEIAA in its 113th meeting.
11. Alternate CER proposal considering the local environmental requirements based on the CER guidelines uploaded in the SEIAA website
12. Depth to water table in the nearest dug well along with geo-tagged photograph of the well and its distance from the project boundary and elevation above MSL.

Based on discussion, the Committee decided to invite the Proponent for a presentation. The presentation shall include details of the additional documents and clarifications as highlighted above.

**Item No.22 Environmental Clearance for the Granite Building Stone Quarry of Sri. Anoop P.V., Managing Director, M/s. Rudra Stone and Crusher Private Limited for an area of 1.6896 Ha at Block No.30, Re-Survey Nos. 113/6, 113/7, 113/6-1 in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram, Kerala.
(SIA/KL/MIN/456003/2023, 2505/EC3/2024/SEIAA)**

The Committee decided to defer the item for detailed scrutiny in the next meeting.

Item No.23 **Environmental Clearance for the Granite Building Stone quarry project of Sri. Kaderbabu E.K for an area of 3.4739 Ha at Block No.2, Sy.No.111/4, 111/7, 111/8, 111/2, 111/10, 111/5, 111/6 in Kannamangalam Village, Tirurangadi Taluk, Malappuram. (SIA/KL/MIN/47565/2019, 1515/EC3/2019/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and noted that the PP has submitted the revised EIA report. **Therefore, the committee decided to entrust Dr. A. V. Raghu and Sri. V Gopinathan for evaluation of the revised EIA report. The committee also observed that the PP has not submitted the approval of the District Level Crisis Management Committee for mining.**

PARIVESH FILES

PART – 3

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.01 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. Aboobacker. P.M, Managing partner, M/s M A Granites at Resurvey Block No. 1, Re Survey No: 84/1, 84/2B Balussery Village, Koyilandy Taluk, Kozhikode (SIA/KL/MIN/166371/2020, 1758/EC4/2020/SEIAA)**

As invited the project proponent Sri. Aboobacker. P.M and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total minable reserve available is 481327.5MT with an average annual production of 40000 MT. The total project cost is 80 lakhs. The life of mine is 12 years. As per the presentation, the depth to water table is 6m below ground level at 157 m MSL. The distance to the high hazard zone is 8.50 km and to the medium hazard zone is at 223m. **Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents:**

1. Revised legible survey map authenticated by the Village Officer showing all the built structures within 200m radius.
2. Recent Cluster Certificate.
3. Compensatory afforestation plan along with geo-tagged photographs of the proposed area, ownership details of land, and species proposed
4. Protection measures for the already mined out steep area.

Item No.02 Environmental Clearance for the Granite Building Stone Quarry project of M/s Rock field Estates Pvt. Ltd. at Block No. 48 in Re-Survey No. 400/1, 400/2, 401/5-2, 406/5 of Chengalam (E) Village, Kottayam Taluk, Kottayam (SIA/KL/MIN/175300/2020, 1987/EC3/2022/SEIAA)

As per the direction of the 137th SEIAA meeting held on 29th & 30th January 2024 the Committee heard the Complainant and the Proponent. The Committee first heard the Complainant Sri Sajan George accompanied by Sri Stanley Joseph. The complaint is mainly against the over-exploitation, nuisance due to the rock fall and pollution and failure to collect environmental compensation for the over exploitation and violation of EC conditions by M/s Palathara Constructions Pvt Ltd., the company owned by the Proponents of M/s. Rockfield Estate Pvt. Ltd. The Complainant stated that the proponent violated the mining rules and environmental clearance conditions by carrying out over extraction for which the Mining and Geology Department has collected fine. However, environmental compensation for the same has not been assessed and collected. The Complainants submitted a detailed hearing note along with Exhibits and the Committee perused the same. Subsequently, the Committee heard the Project Proponent Sri. Shibu Mathew and Sri. Rubin Shibu of M/s Rock field Estates Pvt. Ltd. and Consultant Sri. Jomon. During hearing the PP intimated that as per the OA No.56 of 2022 the Palathra Constructions Pvt. Ltd. is the 4th respondent that quarried more than the permitted quantity. The quarrying lease was granted on 24.06.2016 for quarrying granite building stone in 1.8851 Ha of land comprised in Sy. No.403/1 and 403/2 of Chengalam East Village for a period of 10 years which is valid up to 28.06.2026. Based on the quarry lease, the environmental clearance was granted for quarrying on 07.05.2016 which was valid up to 02.02.2021 and later, extended for a period of one year. The quarry lease ceased functioning since 26.11.2021 as there were several complaints received against this quarry. The inspection made by the Taluk Surveyor reported that about 5,03,764.775 MT of granite building stone was quarried in excess from within and outside the quarry lease. The Department of Mining and Geology had levied a penalty of Rs.13.878 Crores for the excess mining. As part of the action against violation of M/s Palathara Constructions Pvt Ltd., the SEIAA has directed the PP to carry out environmental damage assessment through an accredited agency. The report is yet to be received. The PP, Sri. Shibu Mathew submitted that they are awaiting a clarification on the directions contained in the NGT order to commence the environmental damage assessment through a NABET accredited consultant. Sri. Shibu Mathew further submitted that the proposal of M/s Rock field Estates Pvt. Ltd may be permitted as there are no violations from the company. Based on discussion, the Committee decided to recommend the following to the SEIAA.

1. The proposal submitted by M/s. Rock field Estates Pvt. Ltd. may be considered for environmental clearance as recommend by the SEAC in its 135th meeting with one more additional condition, i.e., “Temporary protective wall of height 4m should be erected along the boundary connecting BP6-BP7-BP8-BP9-BP10-BP11-BP1-BP2 and BP3”.
2. The environmental damage assessment and compensation for the same in accordance with the direction of the SEIAA and the order of Hon’ble NGT pertaining to the violation by M/s. Palathara Constructions Pvt Ltd. may be speeded up.

Item No.03 **Environmental Clearance for the granite building stone quarry project of Sri.Abdul Razack.K for an area of 0.5634 Ha at Sy.No.35 in Kariavattom Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/257046/2022, 2046/EC6/2022/SEIAA)**

As invited the project proponent Sri. Abdul Razack K and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 159314 MT. The life of mine is 5 years. The highest elevation of the project area is 140 m above MSL and the lowest is 100 m above MSL. The ultimate depth of mine is 95m above MSL. The depth to water level in this aquifer varies from 9m bgl. The revised project cost is 1.07crore. The distance from the high hazard zone is 15.20km and from the medium hazard zone is 740m. The Committee observed that it is desirable to provide temporary protection wall with light roofing sheets connecting boundary pillars BP1-BP5-BP4-BP3-BP2. **The Committee heard the presentation and noted that the PPT did not address the shortcomings sought in 159th SEAC meeting. Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents.**

1. Revised survey map showing distance to the built structures measured from the project boundary and not from the boundary pillars.
2. Detailed land use map of 500m radius showing all the different types of land uses including the various infrastructures developed, other mine spots, drainages, ponds etc.
3. Revised EMP with site specific mitigation measures including the site-specific plan for hydrology and waste management aspects and incorporating vibration monitoring and land environmental management. Revised EMP should be prepared by a NABET accredited consultant as decided by the SEIAA in its 113th meeting.
4. Revised Risk management plan incorporating all the accident possibility of the site.

Item No.04 **Environmental Clearance for the Mining of Building Stone Quarry project of Sri. Saji Abraham for an area of 1.4718 Ha at Sy. Nos. 917/3B2-2, 917/3B, 917/3B-2, 917/3B1, 917/4-2-3, Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/288750/2022, 2129/EC3/2022/SEIAA)**

As invited the project proponent Sri. Saji Abraham and the Consultant Sri. Jomon of Engineers and Environmental Consultants Ltd were present. The Consultant made the presentation. As per the application, the total mineable reserve is 5,01,070 MT. The life of mine is 5 years. The project cost is Rs. 4.62 Crores. The highest elevation of the permit area is 75 m AMSL and lowest is 70 m AMSL. The nearest habitation is 201 m towards East. The distance from high hazard zone is 11.67 km and the distance to moderate hazard zone is 7.23 km. The Committee also noticed that the project proponent of M/s Jesus Granites which is included in the cluster of Sri. Saji Abraham with an area of 1.4962 ha has submitted the

withdrawal application (SIA/KL/MIN/277815/2022, 2050/EC3/2022/SEIAA) and was accepted by SEIAA and hence currently there is no cluster situation. **Based on discussion, the Committee observed the following shortcomings and decided to entrust Dr. Mahesh Mohan and Dr. K.N. Krishnakumar for field inspection and report.**

1. The compensatory afforestation plan is not satisfactory and therefore requires revised plan in an alternate site along with geo-tagged photographs of the site, its ownership details, species proposed to be planted etc.
2. The depth to water table requires re-confirmation and therefore it has to be measured in the nearest open well to the site and submitted with geotagged photographs of the well, distance to it from the project site and elevation of the well site above the MSL

Item No.05 Environmental Clearance for the Granite Building stone quarry of Sri. Muhammed K.P. for an area of 1.0545hectares at Block No.29, ReSurvey No. 325/11,332/5,332/11,332/10,332/3,332/1-1 in Kavanur village, Ernad Taluk, Malappuram (SIA/KL/MIN/410913/2022, 2215/EC/2023/SEIAA)

As invited the project proponent Sri. Muhammed K.P. and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 3,46,900 MT. The life of mine is 10 years. The project cost is Rs. 1.25 crore. The highest elevation of the permit area is 110 MSL and lowest is 85 m MSL. The distance to nearest house is 106.54m. As per the presentation, a Crusher Office is at a distance of 52.1m. The distance from the high-hazard zone is 9 km and the distance to medium hazard zone is 4 km. The Committee heard the presentation and observed that the PPT did not address the shortcomings sought in the 158th SEAC meeting. **Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents.**

1. Clarify whether there is any mismatch between the project boundary in the KML file uploaded and that provided in the mine plan.
2. Site specific EMP with focus on the observations of earlier SEAC meeting prepared by a NABET accredited agency as per the decision of the 113th SEIAA meeting.
3. Legible survey map authenticated by the Village Officer showing all the built structures within 200m radius.
4. Clarification regarding the built structures within 50m near the boundary pillar BP8.
5. Proof of stakeholder consultation and mode of implementation of CER

Item No.06 Extension of validity of Environmental Clearance for Laterite Building Stone Quarry of Sri. Muraleedharan L at survey No. 467/8-2 over an area of 0.1158 Ha in Naduvathoor Village, Kottarakara Taluk, Kollam. (Old Proposal No.SIA/KL/MIN/276929/2022, 540/A1/2019/SEIAA) (New Proposal No. SIA/KL/MIN/424274/2023)

As invited the project proponent Sri. Muraleedharan L and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 15,010 MT. The life of min is 1 year. The project cost is 8 lakhs. As per the presentation, the distance to

nearest built structure is 65m. The highest elevation of the permit area is 81m MSL and lowest is 78m MSL. The distance from high hazard zone is 24.3 km and the distance to medium hazard zone is 13.6 KM. The depth of mine is 8m bgl. The depth of water table is 10m bgl at 66m AMSL. **Based on discussion, the Committee decided to recommend EC for 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/laborers 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 5.00 pm).

Item No.07 Granite Building Stone Quarry of Shri. Raghulan Pillai located in Re-Sy Nos.354/1/305 & 354/1/305/236 Pt, Karavalur Village, Punalur Taluk, Kollam District, Kerala State over an extent of 1.9000 ha. (4.6949 Acres). (SIA/KL/MIN/43381/2019, 1580/EC2/2019/SEIAA)

As per the decision of the 159th SEAC meeting the proponent was invited for presentation. Even after prior intimation through letter dated 15 April 2024, the proponent was absent for the presentation and requested to postpone the presentation. **Hence the Committee decided to defer the proposal and give one more chance for hearing.**

Item No.08 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Shans Paul, M/s Chattupara Granites Pvt Ltd, for an area of 3.0274 ha at Re-S nos. 734/1B-1, 734/1B-4, 734/1B-5, 734/1B-6, 734/1B-7, 734/1B-8, 734/1B-9 in Kallorkkad Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/437379/2023, 2342/EC3/2023/SEIAA)**

As invited the project proponent Sri. Shans Paul and the Consultant Sri. Jomon, M/s Environmental Engineers and Consultants Ltd. were present. The Consultant made the presentation. As per application, As per the application, the total mineable reserve is 14,04,575 MT with an annual production of 3,50,000 MTA. The life of mine is 5 years. The highest elevation of the permit area is 176 m above MSL and the lowest is 134 m above MSL. The depth of mine proposed is 105m above MSL. The depth to water table is 4m below ground level at 91m AMSL. The nearest habitation is at 204.1 m. The total project cost is Rs.3 core. The committee noted that the depth of mine is limited to 119m above MSL considering the mine depth of the adjacent quarry. **Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents.**

1. Plan for maintaining a buffer distance of 50m between the building and project boundary.
2. Plan for safe removal of boulders prior to the mining as proposed
3. Plan of re-alignment of internal road avoiding the buffer zone area
4. Compensatory afforestation plan in an alternate site along with geo-tagged photographs of the site, its ownership details, species proposed to be planted etc.
5. Explanation for uploading wrong information that the project area is a wasteland as against the actual land use data of the site
6. Detailed drainage plan incorporating garland drains, silt-traps, settling ponds, outflow channel and connectivity to natural drain along with drainage map depicting the above aspects
7. Affidavit for ensuring the construction of retaining wall/gabion structure for the top soil and overburden storage
8. Detailed CER plan as envisaged in the SEIAA-Kerala website.
9. Revised EMP incorporating site-specific environmental issues identified, environmental mitigation measures, adequate budget estimates for implementation and maintenance for the entire life of mine along with CER as per the OM and guidelines of the SEIAA Kerala. The revised EMP should be prepared by a NABET accredited Consultant as decided in the 113th meeting of the SEIAA
10. Revised drainage plan including drainage from the adjacent quarry.

Item No.09 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Yunus Mayakkara for an area of 4.5246 Ha, Block No. 35, Re-Survey Nos.8/1-3, 8/1-4 of Nediyruppu Village, Kondotty Taluk, Malappuram.**
(SIA/KL/MIN/438697/2023, 2396/EC1/2023/SEIAA)

As invited the project proponent Sri. Yunus Mayakkara and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 1432428 MT with an annual production of 119369 MTA. The life of mine is 12 years. The highest elevation of the permit area is 220m AMSL and lowest is 120 m AMSL. Nearest house is at 203.1 m. The total project cost is Rs.3 crore. The distance from moderate hazard zone is 4.90 Km and the distance to high hazard zone is 15.13 Km. **Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents.**

1. Geo-tagged photograph of OB dump site with plan for protection, consent of the owner, sketch showing the site location
2. Thickness of topsoil and OB and the estimated quantity of the top soil & OB storage required and their storage plan.
3. Revised Project cost.
4. Revised site-specific EMP incorporating the revised CER as per the guideline published in the website of SEIAA. The EMP should be prepared by a NABET accredited Consultant
5. Details of trees to be cut and an affidavit to the effect that only trees upto the proposed mining area at 170 m above MSL shall be cut.
6. Modified biodiversity report.
7. Compensatory afforestation plan incorporating geo-tagged photograph of site, species proposed to be planted, and ownership of the proposed land.
8. Revised drainage plan incorporating all details considering that the proposed mining will culminate at 170m above MSL.
9. Proposed Energy conservation measures.
10. Proposed sanitary and waste management details.
11. Revised CER as per need assessment study including the available facility and ensure except that all other facilities are there in the health care centre.

Item No.10 **Environmental Clearance for the Laterite Building Stone Quarry of Sri.Ashiq K.C for an area of 0.8761 Ha at Block No.17, Re Survey Nos: 130/2-3, 2-5, 2-6, 139/1-33, 1-40, 1-41, 1-42, 1-43 in Cheekode Village, Kondotty Taluk, Malappuram.**
(SIA/KL/MIN/438819/2023, 2376/EC1//2023/SEIAA)

As invited the project proponent Sri. Ashiq K.C and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 84,324 MT. The life of mine is 2 years. The total project cost is Rs.23.4 lakh. the depth to water table is 8m

below ground level at 44m above MSL. The average thickness of mine is 5.5 m. The nearest built structure is at 72.4 m. The highest elevation of the permit area is 91m above MSL and lowest is 65m above MSL. As per the presentation, the distance from high hazard zone is 9.42 Km and the distance to medium hazard zone is 30m. The PP clarified the CER by providing the detailed proposal for Anganwadi with geo-tagged photograph. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining should be limited to 63m above MSL.
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/laborers 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 5.00 pm).

Item No.11 **Environmental Clearance for the Granite Building Stone Quarry Sri. Manoj Kumar. K for an area of 1.0261 Ha at Re Sy No: 68,71/1,71/2 in Kinalur Village, Thamarassery Taluk, Kozhikode.**

(SIA/KL/MIN/443424/2023, 2474/EC2/2023/SEIAA)

As per the decision of the 157th SEAC meeting the proponent was invited for presentation. Even after prior intimation through letter dated 16 April 2024, the proponent was absent for the presentation and requested to postpone the presentation. **Hence the Committee decided to defer the proposal.**

Item No.12 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Jaison Lukose for an area of 0.9430 Ha at Re-Survey Nos. 46/500, 46/1114, 46/881 in Kalliad Village, Iritty Taluk, Kannur.**

(SIA/KL/MIN/444274/2023, 2498/EC4/2024/SEIAA)

As invited the project proponent Sri. Jaison Lukose and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 1, 65,586 MT, the annual production is 33117 MTA and the life of mine is 5 years. The highest elevation of the proposed area is 150 m above MSL and the lowest is 105 m above MSL. The total project cost is Rs.110 Lakh. As per the presentation, the depth to water table is 10 m below the ground level at 66 above MSL. The distance to nearest built structure is 387.5m. The distance to Medium Hazard Zone is 1.58 Km and the High hazard zone is at a distance of 9.12 Km. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents:**

1. Revised legible survey map authenticated by the Village Officer showing all the built structures within 200m radius.
2. Compensatory afforestation plan along with geo-tagged photographs of the proposed area, ownership details of land and species proposed.
3. Depth to water table in the nearest dug well along with its distance to the well from the project boundary, geo-tagged photograph of the well and elevation of the well site.
4. Detailed slope map of the area comprising 500m radius of the project site.

Item No.13 **Environmental Clearance for the Granite Building Stone Quarry of M/s. Highland Silver Sands (P) Ltd for an area of 4.31 Ha at Re-Survey No.2/1(p) in Raroth Village, Thamarassery Taluk, Kozhikode.**

(SIA/KL/MIN/447663/2023, 2484/EC2/2023/SEIAA)

As invited the project proponent Sri. Vinay James Kynadi, M/s High Land Silver Sand Pvt Ltd. and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 22,13,230MT. The total project Cost is Rs. 383.2212 Lakhs. The life of mine as per Form-1 is 12 years. The distance to Vanaparvam Biodiversity

Park is 8.38km. The site does not fall in any landslide hazard zones. There are many built structures within 200m distance from the project boundary. There is one shed at 13m and another one at 25m. The Committee discussed the field inspection report conducted on 05/08/2023 and noted that the PP has submitted a request for revalidation of the EC issued as per order No.06.DEIAA/KL/MIN/3058/2016 dated 15.7.2017 along with the copy of judgment dated 01.11.2021 against WP (C) No.23717/2021 before the Hon'ble High Court regarding the revalidation of environmental clearance. The existing EC period was up to 15.07.2023 with covid extension. The Sub-committee noted the following salient aspects during field visit:

1. The quarry on the date of visit was not functioning.
2. The surface water that reaches the quarry pit is being pumped out and hence the pit was without water storage.
3. A crusher is functioning adjacent to the quarry.
4. Overburden is found dumped on the northern side of the quarry and was not found protected with gabion wall or other OB dump protection structures.
5. Green belt is weak at certain locations.
6. There is higher extent of siltation in the areas nearer to the crusher
7. Higher extent of littering of plastic tubes (refuses) of NONEL blasting is found in the quarry site.
8. Afforestation activities at several locations have started only recently.

As per OM dated 28.4.2023, all ECs issued by DEIAA between 15.1.2016 and 13.9.2018 shall be reappraised by the SEAC subject to submission of various documents listed in the said OM. In response to this OM, the Proponent has submitted the application along with Form 2, PFR, Copy of mine lease, proposal for regressing, cluster certificate, certified compliance report, scheme of mining etc. which needs to be evaluated in detail. Based on discussion, the **Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. An action taken report on the protection and management of top soil /overburden (with geotagged photographs), which are presently dumped at various places outside the quarry.
2. Plan for maintaining buffer distance of 50m between the project boundary and the built structures
3. An action taken report on the removal / disposal of the refuses of NONEL blasting, which are littered in the quarry site.
4. Revised site specific EMP prepared by a NABET accredited EIA consultant
5. Revised project cost incorporating the cost of EMP and CER with a split up of the proposed expenditure.
6. Depth to water table in the nearest dug well along with its geotagged photograph, distance from the proposed site and elevation of the well site.
7. Biodiversity Assessment Report
8. Distance to the nearest ESZ and ESA
9. Statement regarding the compliance to the judgement dated 2.8.2017 of the Hon. Supreme Court of India in Common Cause Vs Union of India in WP(C) 114 of 2014.

The Committee also decided to entrust the team of Dr. A.N. Manoharan and Dr. C.C. Harilal to evaluate the documents submitted by the Proponent and report to the Committee.

Item No.14 **Environmental Clearance for the granite building stone quarry of Sri. K G Ajikumar for an area of 1.2328 Hectares, at Block No.-13, Re-Survey Nos. 394/4(p), 394/14(p), 394/15(p) ,394/16(p), 399/3-1(p), 399/3-1-2(p), 399/3-2-2(p), 399/3-2, 399/3-3, 399/3-3-2, 399/4, 399/4-2, 399/4-3, 399/4-4(p) & 396/5-1 at Kalayapuram Village of Kottarakkara Taluk, Kollam (SIA/KL/MIN/448332/2023, 2491/EC1/2024/SEIAA)**

As invited the project proponent Sri. K G Ajikumar and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 3,00,780 MT. The life of mine is 6 years. The total project cost is 127.5 Lakh. The distance to nearest built structure is 103.3m. The highest and lowest elevation of the project area are 120 m above MSL and 85 m above MSL respectively. As per the presentation, the distance to medium hazard zone is 11.30 Km and the high hazard zone is at a distance of 19.12 Km. A canal is located at a distance of 70m. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents:**

1. NOC from the Irrigation Department as an Irrigation canal is located at around 70m
2. Revised CER as per the guidelines uploaded in the SEIAA website.
3. Depth to water table in the nearest dug well along with its distance from the project boundary and geo-tagged photographs of the well.
4. Compensatory afforestation plan along with geo-tagged photographs of the proposed area, ownership details of land and species proposed

Item No.15 **Environmental Clearance for Laterite Building Stone quarry of Sri. Manikandan P V for an area of 0.3316 Ha. at Survey No-65/1-1, 65/8 in Anakkara Village, Pattambi Taluk, Palakkad, Kerala (Presentation) (SIA/KL/MIN/453860/2023, 2476/EC3/2023/SEIAA)**

As invited the project proponent Sri. Manikandan P V and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 49,740 MT. the project cost is 15 Lakh. the life of mine is 1 year. The highest elevation of the permitted area is 98m AMSL and the lowest elevation of the permitted area is 96m AMSL. The distance to nearest house is 102.4 m. As per the presentation the depth to water table is 9m bgl at 71m AMSL. The distance to high hazard zone is 43.77 km and the moderate hazard zone is 32.08 km. The committee observed another proposal (SIA/KL/MIN/454085/2023) adjacent to the proposed site owned by the same proponent. **Based on discussion, the Committee decided to (i) direct the PP to submit Comprehensive EMP and drainage**

plan for the both project site and (ii) entrust the sub-committee consisting of Dr. A.V. Raghu and Dr. K. Vasudevan Pillai to conduct field inspection and submit report.

Item No.16 Environmental Clearance for Laterite Building Stone Quarry of Sri. Abdul Asees K.P., for an area of 0.4856 Ha. at Block No:37, Re-Survey No:32/177 in Kuttoor Village, Payyannur Taluk, Kannur. (SIA/KL/MIN/453983/2023, 2490/EC4/2024/SEIAA)

As invited the project proponent Sri. Abdul Asees K.P and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 64,747 MT with an annual production of 22,261 MT, 20,238 MT and 22,248 MT in respective years. The life of mine is 3 years. The nearest house is at a distance of 52.8m. The depth to water table is 6m below ground level at 139m AMSL. The total project cost is Rs. 18.256 Lakh. The distance to high hazard zone is 5.3km and the distance to medium hazard zone is 210.1m. **Based on discussion, the Committee decided to recommend EC for mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining should be limited to 4m bgl considering the depth to water table.
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/laborers 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 5.00 pm).

Item No.17 Environmental Clearance for Laterite Building Stone quarry of Sri. Manikandan P V for an area of 0.3316 Ha. at Survey No-65/1-1, 65 in Anakkara Village, Pattambi Taluk, Palakkad, Kerala (Presentation) (SIA/KL/MIN/454085/2023, 2479/EC3/2023/SEIAA)

As invited the project proponent Sri. Manikandan P V and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 1,29,135MT with an annual production of 45,197.25MT. The average depth of mine is 6m. The depth to water table is 9m bgl at 71 m AMSL. The life of mine is 2 years. The project cost is 30 Lakh.. The nearest house is at a distance of 70.35m. The committee observed that another proposal (SIA/KL/MIN/453860/2023) adjacent to the proposed site is owned by the same proponent. **Based on discussion, the Committee decided to (i) direct the PP to submit Comprehensive EMP and drainage plan for the both project site and (ii) entrust the sub-committee consisting of Dr. A.V. Raghu and Dr. K. Vasudevan Pillai to conduct field inspection and submit report.**

Item No.18 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Jabir C.P for an area of 0.1942 Ha at Block No: 37, ReSurvey No: 32/177 in Kuttoor Village, Payyannur Taluk, Kannur (SIA/KL/MIN/454094/2023, 2492/EC4/2024/SEIAA)

As invited Sri. Abdul Asees K.P was present on behalf of Project proponent Sri. Jabir C.P. The RQP V. K. Roy made the presentation. As per the application, the total mineable reserve is 26,702MT with an annual production of 13351MT. The mine life is 2 years. The project cost is Rs.6.115 Lakhs. The depth to water table is 6m bgl at 142 m AMSL. The depth of mining proposed is 6m bgl. The distance to nearest habitation is 65m. A shed is at a distance of 54m. The distance to medium hazard zone is 256m. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The depth of mining should be limited to 4m bgl considering the depth to water table.
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/laborers 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 5.00 pm).

Item No.19 Environmental Clearance for Laterite Building Stone Quarry project of Sri. Hussain Machinchery for an area of 0.9928 Ha, at Re-Survey Nos. 307/1A in Anakkara Village, Pattambi Taluk, Palakkad, Kerala. (SIA/KL/MIN/454514/2023, 2496/EC3/2023/SEIAA)

As invited the project proponent Sri. Hussain Machinchery and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 97616MT with an annual production of 32,535MT in the first two years and 32,546 MT in third year. The mine life is 3 years. The total project cost is Rs.26.01 Lakhs. The distance to nearest House is 51.6m. The depth to water table is 10m BGL at 72 m AMSL. The highest elevation of the permitted area is 86m AMSL and the lowest elevation is 79m AMSL. The Committee observed that the following additional documents are required for further processing of the application.

1. Recent Cluster Certificate.
2. Modified CER as per the guidelines uploaded on the SEIAA –Kerala website.
3. Revised site specific EMP incorporating CER
4. Depth to water table in the nearest dug well along with its distance from the project boundary and geo-tagged photographs of the well.

Based on discussion, the Committee decided to entrust the sub-committee consisting of Dr. K. Vasudevan Pillai and and Dr. A.V. Raghu to conduct field inspection and submit report.

Item No.20 Environmental Clearance for Laterite Building Stone Quarry project of Sri. P. Babu for an area of 0.1943 Ha at Block No. 046, Re-Survey Nos. 14/820 (14/444) in Pariyaram Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/454776/2023, 2494/EC4/2024/SEIAA)

As invited the project proponent Sri. P. Babu and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 21,945 MT with

an annual production of 10,395 MT and 11,550 MT in respective years. The life of mine is 2 years. The project cost is Rs. 6.994 Lakhs. The depth to water table is 8m below ground level. The distance to nearest house is 49.8m and a shed is at a distance of 38m. The depth to water table is 8m bgl at 79m AMSL. The depth of mine is 6m bgl. The medium hazard zone is at a distance of 4.15km. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Buffer distance of 50 m should be maintained from the boundary of the project area to the nearest built structure.
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/laborers 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 5.00 pm).

Item No.21 Environmental Clearance for Ordinary Earth Mining Project of Sri. Daniel. K.P for an area of 0.4559 Ha at Block No. 45, Re -Survey No. 439/10,439/5-2, 439/5-2-1 in Aikaranad North Village, Kunnathunad Taluk, Ernakulam.(SIA/KL/MIN/455191/2023, 2482/EC1/2023/SEIAA)

As invited the project proponent Sri. Daniel. K.P and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is

27354 MT. The project cost is 20 lakh. The distance to high hazard zone is 33.58 Km and the distance to moderate hazard zone is 30.23 Km. The depth to water table is 8 m bgl at 49m AMSL. The highest elevation of the proposed area is 64 m MSL and the lowest elevation is 56 m MSL. As per the survey map, the nearest built structures are at a distance of 5-10m. **The Committee observed that the following additional documents are required for further processing of the application.**

1. Clarification regarding the feasibility of mining without affecting the nearest house at a distance of 5-10m.
2. Photographs clarifying the level of mining and the level of nearby houses.
3. Demand letter for the ordinary earth as the work order dated 13.09.2023 with validity of 3 months is now invalid.
4. Revised survey map showing distance to all the houses, buildings and other built structures within 100m of the project boundary.
5. Depth to water table in the nearest dug well along with its distance from the project boundary and geo-tagged photographs of the well.

Item No.22 Environmental Clearance for Granite Building Stone quarry of Smt. Pradhiba for an area of 75.27 Ares at Block No. 35, Re-Survey Nos. 798/3, 798/6, 798/7 in Valiyavallampathy Village, Chittur Taluk, Palakkad, Kerala. (SIA/KL/MIN/455192/2023, 2499/EC3/2024/SEIAA)

As invited the project proponent Smt. Pradhiba and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 196662 MT. The mine life is 4 years. The project cost is 125 lakh. The highest elevation of the project area is 209m AMSL and lowest elevation is 200m AMSL. The ultimate depth of mining is 185m above MSL. There is an abandoned quarry adjacent to the proposed site. The depth water table is 15m bgl at 186m above MSL. As per the presentation, the nearest house is at 104.2 m. The distance to moderate hazard zone is 13.92 Km and the distance to high hazard zone is 14.95 Km. **Based on discussion, 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. 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 5.00 pm).
10. Adequate sanitation, waste management and restroom 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

Item No.23 Environmental Clearance for Laterite Building Stone Quarry project of Sri. Muhammed Anees P for an area of 0.4812 Ha, at Re-Survey Nos.301/5, 302/3 & 303/2 in Thachanattukara 2 Village, Mannarkad Taluk, Palakkad. (SIA/KL/MIN/456721/2023, 2497/EC3/2023/SEIAA)

As invited the project proponent Sri. Muhammed Anees P and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 60150 MT with a recoverable quantity of 42105 MT. The mine life is 2 years. The project cost is 15 Lakh. The Kunthi river is at a distance of 0.620 km from the project site. The highest elevation of the project area is 86 m above MSL and the lowest elevation is 80m above MSL. As per the presentation, the distance to nearest house is 58 m. The depth to water table is 8m bgl at 67m AMSL. The distance to high hazard zone is 13.73 km and the distance to Moderate Hazard Zone is 10.85 km. **Based on discussion, the Committee decided to direct the Proponent to submit the following additional documents for further processing of the application.**

1. Revised CER as per the guideline published in the SEIAA website
2. Detailed drainage map.

3. Lithological section pertaining to the site
4. Recent cluster certificate
5. Depth to water table in the nearest dug well along with its distance from the project boundary and geo-tagged photographs of the well.
6. Compensatory afforestation plan incorporating geo-tagged photograph of site, species proposed to be planted and ownership of the proposed land.

Item No.24 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Muhammed Afsal. T for an area 0.2816 Ha at Block No.14, Re-Survey No.38/2 in Muthuvallur Village, Kondotty Taluk, Malappuram. (SIA/KL/MIN/456904/2023, 2493/EC1/2024/SEIAA)

As invited the project proponent Sri. Muhammed Afsal. T and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total minable reserve is 31680 MT with a recoverable quantity of 25344 MT. The life of mine is 1 year. The project cost is 15 lakh. The distance to nearest house is 175.6 m. The average thickness of laterite to be mined is 4.5m. As per the presentation the depth to water table is 7 m bgl at 128m AMSL. The distance to high hazard zone is 10.32km and the distance to the moderate-hazard zone is 1.82 km. The highest elevation of the proposed site is 178 m and the lowest elevation is 170 m. **Based on discussion, the Committee decided to recommend EC for a 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/laborers 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 5.00 pm).

Item No.25 **Environmental Clearance for Silica Sand mining of Smt. S Jayasree for an area of 1.0552 Ha. (2.6074 Acres) at Sy. Nos. 58/11B1, 58/11B2, 58/14 in Panavally Village, Cherthala Taluk, Alappuzha District, Kerala.**
(SIA/KL/MIN/45722/2019, 1591/EC4/2020/SEIAA)

As per the decision of the 147th SEAC meeting the Project Proponent was invited for presentation in the 151st& 159th SEAC meetings but the proponent was absent without prior intimation. The PP was invited for presentation, but the proponent was absent with prior intimation vide e-mail dated 10 April 2024. **Hence the Committee decided to defer the proposal.**

Item No.26 **Environmental Clearance of Granite Building Stone Quarry project of Sri. AbduRahiman A.C at Re Survey Block No.36, Re-Survey No: 269/1, 269/2, in Nediyruppu Village, Kondotty Municipality, Kondotty Taluk, Malappuram. (SIA/KL/MIN/78627/2019, 1543/EC3/2019/SEIAA)**

As per the decision of the 158th SEAC meeting the proponent was invited for presentation. Even after prior intimation through mail dated 15 April 2024, the proponent was absent for the presentation and requested to postpone the presentation. **Hence the Committee decided to defer the proposal.**

Item No.27 **Environmental Clearance for the Proposed Laterite Building Stone Quarry of Sri. Brijesh B.R, for an extent of 0.3449 Ha in Re-Survey No: 12/2A-2A of Thalakkulathoor Village, Kozhikode Taluk, Kozhikode.**
(SIA/KL/MIN/402526/2022, 2202/EC4/2023/SEIAA)

The Committee examined the proposal and noted that as per the decision of 140th SEAC meeting the PP was invited for presentation and placed in 144th and 149th SEAC meetings. But the proponent was absent and the RQP Sri. V K Roy intimated that the proponent desires to withdraw the application. **Since no communication from the project proponent has been received so far, the Committee decided to recommend rejection of the proposal.**

Item No.28 **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.

(SIA/KL/MIN/252208/2022, 857/SEIAA/EC1/2981/2015)

The Committee examined the proposal and documents submitted as per decision of 137th SEIAA meeting. The committee verified the non-compliance EC conditions submitted by the Project Proponent dated 16/01/2024 and found that the EMP is not site specific and has not addressed the environmental mitigation plan for the environmental issues that have been caused during the mining. **Therefore, the committee decided to direct the PP to submit (i) site-specific EMP with mitigation measures prepared by a NABET accredited agency as directed by SEIAA in its 113th meeting and (ii) Recent cluster certificate considering the nearby projects within 500m including those which are given Letter of Intent by the Mining and Geology Department.**

Item No.29 Environmental Clearance for the proposed Granite Building Stone Quarry of Sri. Ananthu Sunil for an area of 3.6153 Hectares in Survey No. 231 part (Govt. Land) at Konnathady Village of Idukki Taluk, Idukki. (SIA/KL/MIN/209584/2021, 1903/EC3/2021/SEIAA)

As invited the project proponent Sri. Ananthu Sunil and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 9,62,200MT. The life of mine is 5 years. The project cost is 3.47 crore. The highest elevation of the lease area is 1030m above MSL and the lowest elevation is 930m above MSL. The distance to nearest house is 205.9m. The distance to high hazard zone is 460 m and the distance to medium hazard zone is 360m. The maximum depth of mining proposed is 905m above MSL. The depth to water table is 4 m bgl at 903 m MSL. Considering the terrain fragility, it is not desirable to mine beyond the ground level. Therefore, the mining will have to be limited to 930m above MSL. **The Committee heard the presentation and the PPT didn't address the shortcomings sought in the 161st SEAC meeting. Based on discussion, the Committee decided to direct the project proponent to submit a revised EMP as directed in the 148th meeting of the SEAC prepared and authenticated by a NABET accredited EIA Consultant.**

PART – 4

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.01 **Environmental Clearance for Granite Building Stone Quarry of Sri. Unnikrishnan K for an area of 0.4420 Ha at Block No: 26 Re Survey No.207/8 in Keezharoor Village, Kattakada Taluk, Thiruvananthapuram, Kerala.**
(SIA/KL/MIN/428344/2023, 2275/EC1/2023/SEIAA)

The Committee examined the proposal and noted that the mineable reserve is 1,17,803 MT (29,451 TPA) and mine life is 4 years. The project cost is Rs. 60 lakh. The highest elevation is 137m above MSL and the lowest elevation is 108 m above MSL. There are 4 buildings within 100m and the nearest house is at 56.7m. The high hazard zone is at 10.7 km and the medium hazard zone is at 10.6 km. The proposed area is a Govt. land with NOC. The project was presented in the 148th meeting of SEAC held on 8th & 9th August 2023. The RQP made the presentation. The 135th SEIAA meeting held on 22nd & 23rd December 2023 decided to reject the proposal based on the recommendation of the SEAC and as per the decision of the 134th meeting of the SEIAA and the rejection order was issued on 17.01.2024. The Project Proponent requested to reconsider the rejection order vide letter dated 27.01.2024 stating that his application for EC was submitted prior to the approval of the report of SEAC regarding the viability of mining in area less than 0.5 Ha. The 138st meeting of SEIAA held on 27th & 28th February 2024 noted that the EC application was received on 06.05.2023 and was considered in various meetings of SEAC and the presentation was also been completed. In the circumstance, the Authority desired further appraisal of the application based on the decision of the 134th meeting of SEIAA regarding viability of mining in small areas. Since the effective date of implementation of the report of the SEAC regarding viability of mining in area less than 0.5 Ha is 13.11.2023 and the application was submitted on 6.5.2023, the Committee reappraised the proposal. Accordingly, it is estimated that there will be feasibility for mining up to a depth of 15m by providing 3 benches after maintaining the stipulated buffer area and providing an area of about 865 m² at the ultimate mine depth for essential requirements. **Hence the Committee decided to recommend EC for a mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Depth of mining should be limited to a maximum depth of 15m below ground level up to 120m above MSL for extracting mineable reserve of 81000 MT
2. Development of green belt using indigenous species should be initiated prior to the commencement of mining operation.
3. Compensatory afforestation should be initiated prior to the commencement of mining.
4. A retention wall of appropriate height should be provided at the overburden dumping site
5. CER Plan should be implemented within the first one year and it should be operated and maintained till the mine closure plan is implemented
6. The haulage road should be maintained well with frequent sprinkling

7. 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.
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
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. Overburden should be stored at the designed place at lower elevation and gabion wall should be provided for the topsoil and overburden storage sites
12. 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.
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.
17. 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.
18. An adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

PARIBVESH 2.0

PART-1

Item No.01 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Lukmanul Hakeem K. for an area of 0.0595 Ha at Survey No. 251/1- 19-2 in Vattamkulam Village, Ponnani Taluk of Malappuram. (SIA/KL/MIN/457867/2024)

As invited the project proponent Sri. Lukmanul Hakeem K and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 8,181 MT with a recoverable quantity of 6545MT. The life of mine is 1 year. The total project cost is Rs 3.49 lakh. The distance from the nearest house is 59.19m. The depth to water table is 5m BGL at 58m AMSL. As per the presentation, the proposed site does not fall in any landslide hazard zone. The cluster certificate dated 18/12/2023 indicates that there are no authorized working quarry within a 500m radius. **Based on the 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 depth of mining should be limited to 4m bgl considering the depth to water table.
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/laborers 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 5.00 pm).

Item No.02 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Jismon A. B. for an area of 0.8300 Ha. at Re-Survey Nos.185/1 & 185/1-1 in Vellilappilly Village, Meenachil Taluk, Kottayam. (SIA/KL/MIN/459736/2024)

As invited the project proponent Sri. Jismon A. B. and RQP V. K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 1,42,200 MT. The life of mine is 2 years. The project Cost is Rs 1.20 crore. The highest elevation of the permit area is 96m above MSL and the lowest elevation is 80m above MSL. The distance to nearest built structure is 72.4m. Lalam Thodu is at a distance of 472m towards the south-west side of the permit area. The depth to water table is 10m bgl at 53m above MSL. The distance to the high-hazard zone is 4.71km and that to the medium-hazard zone is 2.74km.

Based on discussions, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:

1. The depth of mining should be limited to 70m AMSL considering the depth to water table.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
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. 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. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.
10. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR

11. Implementation of CER Plan should be done during the first year itself of the EC period itself and its operation and maintenance should be done till the completion of mine closure plan.
12. The haulage road should be provided with sprinkling facility to prevent dust pollution.
13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30 pm to 5.00 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. 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
16. The 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. dump plan
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.03 Application for Terms of Reference for the Granite Building Stone Quarry of Sri. N.P Abdul Azeez (M/s. Manjeri Bricks and Metals Pvt Ltd), for an area of 1.8131 Ha at Re- Survey No- 280,281/2-2,281/2-1 of Anakkayam Village, Eranad Taluk, Malappuram District. (SIA/KL/MIN/464173/2024)

The Committee examined the proposal and discussed it in detail. The total area of the project is 1.8131 Ha. As per the Cluster Certificate dated 06-02-2024, three other quarries exist within 500m of the proposed area which altogether comes to more than 5 ha. The proposed site does not belong to any hazard zone. **Based on discussion, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals**

Item No.04 Application for transfer of Environmental Clearance issued to the Granite Building Stone Quarry Project of Sri. Sri M.Kunhi Muhammed, for an area of 0.6301 Ha at Survey No. 337/1 of Morayur village Kondotty TaluK, Malappuram District. (Old Proposal No. SIA/KL/MIN/132766/2019, 1718/EC6/2020/SEIAA) (New Proposal No. SIA/KL/MIN/465195/2024)

The Committee examined the application for transfer of EC No. EC23B001KL110140 dated 22/12/2023 submitted by Sri. Sainudheen CK. The EC was issued to the granite Building Stone Quarry Project of Sri. M. Kunhi Muhammed, for an area of 0.6301 Ha at Survey No. 337/1 of Morayur village Kondotty TaluK, Malappuram District. The life of mine is 5 years. The total project cost is 90 lakh. **Based on discussions, the committee decided to recommend the transfer of EC subject to verification of documents by the SEIAA.**

Item No.05 **Application for Terms of Reference for the Granite Building Stone Quarry of Mr. Honey Vasanth, for an area of 1.2250 Ha at Re- Survey No- 162/1 Pt & 162/2 Pt of Pattazhy Village, Pathanapuram Taluk, Kollam District. (SIA/KL/MIN/464780/2024)**

The Committee examined the proposal and discussed it in detail. The total area of the project is 1.2250 Ha. As per the cluster certificate dt.02-05-2023, there is another quarry within the 500 m premises, having an area of 3.9342 ha. Hence, total mining lease area will be 5.1592 ha which is greater than 5 ha. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with additional study on the landslide susceptibility of the site and its surroundings.**

Item No.06 **Application for Terms of Reference for the Granite Building Stone quarry of Sri Venugopal Reddy (M/S. KNRC Holdings & Investment Pvt. Ltd.) for an area of 4.8582 Ha at Re- Survey No- 322/2pt,321pt of Oorakam Village, Tirurangadi Taluk, Malappuram District. (SIA/KL/MIN/464611/2024)**

The Committee examined the proposal and discussed it in detail. The total area of the project is 4.8582 Ha. As per the Cluster Certificate dated 04-03-2023, two other quarries exist within 500m which altogether comes to more than 5 ha. The highest elevation of the lease area is 165 m MSL and the lowest is 70 m MSL. Major portion of the site falls in medium hazard zone and the slope of the terrain and land fragility seems to be very high. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with additional studies on the (i) landslide susceptibility of the site and its surroundings and (ii) Drainage details and the carrying capacity of the highest order drain in the impact zone.**

Item No.07 **Application for Terms of Reference for the Building Stone Quarry of Sri. Abu K, M/s. Kalanchira Granite (*Re-appraisal of EC issued by DEIAA through SEAC/SEIAA*) for an area of 2.4923 Ha at Re- Survey No- 204, 206/3 of Koppam Village, Pattambi Taluk, Palakkad District. (SIA/KL/MIN/467137/2024)**

The Committee examined the proposal and discussed it in detail. The application is for reappraisal of the DEIAA-issued EC no. DIA/KL/PL/37/2017 dated 12.03.2018. As per the Cluster Certificate dated 14-02-2024, there is another working quarry and three non-working quarries within a 500m radius of the proposed site, and the extent together is more than 5 Ha. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with additional study on the impact of abandoned quarries and their environmental management.**

Item No.08 Application for Terms of Reference for the Granite Building Stone Quarry of Sri. Ummer, for an area of 0.9297 Ha at Re- Survey No- 1065/223, 1065/225, 1065/224 of Melmuri Village, Ernad Taluk, Malappuram District. (SIA/KL/MIN/464752/2024)

The Committee examined the proposal and discussed it in detail. The total area of the project is 0.9297 Ha. As per the Cluster Certificate dated 19-01-2024, there are four other quarries within a 500m radius and the extent together is more than 5 Ha. The highest elevation of the proposed area is 200 m above MSL and the Lowest is 115 m above MSL. The proposed site falls in medium hazard zone and the slope of the terrain and land fragility seems to be high. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with additional studies on (i) landslide susceptibility of the site and its surroundings; (ii) Drainage details and the carrying capacity of the highest order drain in the impact zone and (iii) impact of abandoned quarries and their environmental management.**

Item No.09 Application for Terms of Reference for the Granite Building Stone Quarry of Sri. K. M. Abdul Rasheed (M/s Ever One Properties India Pvt. Ltd), for an area of 4.1258 Ha at Block No: 01, Re- Survey No- 1065/223, 1065/225, 1065/224 of Neryamangalam Village, Kothamangalam Taluk, Ernakulam District. (SIA/KL/MIN/465740/2024)

The Committee examined the proposal and discussed it in detail. The total area of the project is 4.1258 Ha. As per the Cluster Certificate dated 31-07-2023, there are two other quarries (one working and one nonworking) owned by the same company, within 500m radius together comes a total area of more than 5 Ha. The distance to the high hazard zone is 4.24 km and that to the medium hazard zone. The highest elevation of the proposed area is 72m AMSL and the lowest elevation is 15 m AMSL. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with additional studies on (i) monitoring of surface water quality in more sampling locations, both in upstream and downstream of the nearby river and (ii) detailed Biodiversity assessment in the impact zone of 10 km radius.**

Item No.10 Application for Terms of Reference for the Granite Building Stone Quarry of Sri. N. Abdul Rahman, M/s Al Madeena Hollow Blocks, for an area of 1.6693 Ha at Re- Survey No- 386/1-47,386/1-48,386/1-49,360/2-14, 360/2-15, 360/2-16, 360/2-17,360/2-18 of Payyanad Village, Ernad Taluk, Malappuram District. (SIA/KL/MIN/467408/2024)

The Committee examined the proposal and discussed it in detail. The total area of the project is 1.6693 Ha. As per the Cluster Certificate dated 28-12-2023, there are two other quarries within 500m radius and the extent together is more than 5 Ha. The distance to the high hazard zone site is 12.87km. The highest elevation of the proposed area is 150 m above MSL and the lowest elevation is 130 m above MSL. **Based on discussions, the Committee decided to**

recommend Standard ToR under category 1 (a) Mining of Minerals along with additional studies on drainage details and the carrying capacity of the highest order drain in the impact zone.

PARIBVESH 2.0

PART-2

Item No.01 Environmental Clearance for the proposed construction of new buildings within the existing Institutional complex to be developed by M/s JDT Islam Orphanage Committee at Sy. Nos. 155/5, 155/4B, 155/53 (Old No. 155/3), 154/87, 154/122, 154/30 (Old no. 154/8B), 154/19 (old no. 154/9), Chavayoor Village, Kozhikode Municipal Corporation, Kozhikode Taluk & District. (SIA/KL/INFRA2/457794/2024)

The Committee verified the additional documents including the revised CER proposal submitted by the project proponent and found that the CER proposal is not satisfactory. **Based on discussions, the Committee decided to direct the Proponent to submit revised CER as per the guidelines published on the SEIAA-Kerala website**

Item No.02 Environmental clearance Construction of Twin Tube Unidirectional Tunnel Road (2+2 Lane) with Four Lane Approach (from existing roads) for providing direct connectivity between Anakkampoyil-Kalladi -Meppadi in Kozhikode and Wayanad Districts of Kerala. (SIA/KL/INFRA1/458848/2024)

As invited, Sri. Hashim V.K, Executive Engineer, PWD, Kozhikkode, Environmental consultants from KITCO Ltd. viz. Mr. Sundararajan (EIA Coordinator), Dr. K. Soman (FAE), Dr. P.K. Shaji (FAE), Mr. Vinod Kumar (FAE), Pavithran K (FAE), Jacob Varghese etc. were present. The Consultants/ EIA coordinator made the presentation. During the presentation, it is intimated that the RR Plan is in progress. The total project cost is Rs. 2043.74 Crore. The proposed length of the tunnel is 8.753 km. The proposed project obtained Stage-1 forest clearance for the diversion of 17 ha of forest land. During the presentation, the Committee sought clarification on the EIA studies conducted based on the Standard ToR and additional studies proposed. The Committee also observed that the proposed tunnel is close to Puthumala at approximately 0.85 km, where a massive destructive landslide occurred during 2019 and the tunnel alignment passes through highly fragile terrain prone to landslides and thereby necessitating precautions during the construction stage to avert vibration induced landslips. The area also reported endangered bird species such as Banasura Chilappan and Nilgiri Sholakili, five bird species are under threatened categories as per the IUCN Red List, three vulnerable species, fourteen species are endemic to Western Ghats and 29 species are under Schedule-1 and 155 species under Schedule-II of WLP Act, 1972. There are also four Tribal Colonies located within the 500 to 1.5 km to the proposed tunnel road in the Northern

side. The Committee noted that there is every possibility of aggressive human-wild life conflict. The Committee further noted the following observations:

- The ToR compliance need redrafting to bring out the circumstances and reasons for which compliance was not possible.
- Clarification is required regarding the storage and utilization of the excavated rock materials and a detailed plan of action is needed from the proponent.
- Structural characteristics of the area above the proposed tunnels need more careful consideration
- Hydrogeological characteristics and groundwater occurrence in the overburden area of the tunnel and the seepage possibility need detailed study and evaluation.
- Reply for the written complaints received from *Kerala Nadi Samrakshana Samithi*, Ramapriya, High Road, Aluva and Green Movement, Samskrithi, Kuthiravattom, Kozhikkode, during Public Hearing at Kozhikkode Collectorate is not found furnished
- Effective, regular and continuous monitoring mechanism for vibration from blasting during the tunneling works that may trigger land slips/land slides in such fragile areas, proposed to be monitored by the Contractor/ Concessionaire, need to be provided with specific operation procedure and incorporated in the EMP.
- No solution has been proposed for reducing the impact of HWI as Wayanad is already experiencing high Human Animal Interaction (HWI) and further any barrier at the proposed tunnel mouth in Meppadi area would force the elephants to utilise the other route more. This route is through the Kalladi Colony and nearby settlements which are more populated. Such a situation could lead to increased human-elephant interaction which could possibly lead to conflict situations. As such, there is no possibility to avoid the movement of elephants to Kuppachi forest through the populated colonies once the tunnel mouth area is blocked.
- Considering the probability of increased human-elephant interaction, especially in the movement paths in Meppadi Range, it is desirable that a corpus fund may be created for possible mitigation measures including ex-gratia payments. The fund may be parked in the accounts of VSS/EDC of the Meppadi Range, who will address the issues in both the Forest Ranges
- No action is proposed in the EMP though it is stated that a Team with proven credibility may be engaged/funded for monitoring the elephant movement/road kills and other related issues. Actions have to be taken for an under-passage (eg. Box culvert) along the nearby streams to ensure free movement/dispersal of amphibians during breeding season. An expert in the field of herpetofauna may be consulted for the implementation of the programme.
- No provision is found included in the EMP for the maintenance of additional Check posts as proposed
- No provision is found included in the EMP including the protocol for monitoring the project activities by the representatives of the Tunnel Road Management, Forest Department and a Wildlife/ Biodiversity Researcher etc . , including prevention of the possibility of animals getting trapped in the tunnel.

- No action is proposed to prevent accidental introduction, successive proliferation and invasion of alien species (weeds) that cause habitat degradation that will seriously affect food chains and ecosystem functions aggravating conflicts as there will be extensive vehicular traffic and influx of people in the area during operation phase.
- No recommendation is found provided in the EMP for the conservation of endemic and endangered Banasura Chilappan (*Montecincla jerdoni*) which is a severely range-restricted laughing thrush species, whose distribution is limited to the high-altitude shola forests (above 1400 msl).

Based on the discussion, the Committee decided to entrust the sub-committee consisting of Dr. R. Ajayakumar Varma, Sri. S. Sheik Hyder Hussain, Dr. C.C. Harilal, and Dr. A.N. Manoharan to conduct a field inspection and submit a report.

The Committee decided to convene its 164th meeting on 08th, 09th and 10th of May 2024
The Meeting ended by 6.00 pm.

Sd/-
Suneel Pamidi, IFS
Member Secretary, SEAC

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

LIST OF PARTICIPANTS:

Sl.No.	Name	16.4.2024	17.4.2024	18.4.2024
1.	Dr.R.Ajayakumar Varma (Chairman)	✓	✓	✓
2.	Sri. S. Sheik Hyder Hussain	✓	✓	X
3.	Dr. A. Bijukumar.	X	X	X
4.	Dr. A.N. Manoharan	✓	✓	✓
5.	Shri. M. Dileepkumar	X	X	X
6.	Smt. Beena Govindan	X	X	X
7.	Dr. C.C. Harilal	✓	✓	✓
8.	Dr. K. Vasudevan Pillai	✓	✓	✓
9.	Dr. Mahesh Mohan	✓	✓	✓
10.	Dr. K.N. Krishna kumar	✓	✓	✓
11.	Sri. V.Gopinathan	✓	✓	✓
12.	Dr. A.V. Raghu	✓	✓	✓
13.	Dr. N. Ajithkumar	✓	✓	✓
14.	Suneel Pamidi (Member Secretary)	✓	✓	✓