MINUTES OF THE 161st MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), KERALA HELD FROM 13th, 14th & 15th MARCH 2024, IN THE CONFERENCE HALL, STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, KERALA

The meeting started at 10.00 AM on 13th March 2024. Dr. R. Ajayakumar Varma, Chairman, SEAC Kerala chaired the meeting. The Committee discussed the agenda items in detail and took the following decisions:

PHYSICAL FILES

Item No.161.01 **Noting of the minutes of the 159th & 160th SEAC meeting held from 19th- 21st February 2024 & 2nd March 2024 respectively.**

Confirmed the minutes.

Item No.161.02 **Environmental Clearance for Granite Building stone quarry of Sri. Martin Varghese, for an area of 0.996 Ha at Re- Survey No: 96/5, 96/6 Block No.2 in Vilapilsala Village, Kattakada Taluk, Thiruvananthapuram District, Kerala.**
(SIA/KL/MIN/128666/2019, 1958/EC1/2022/SEIAA)

The Committee examined the proposal and noted that the project proponent had not submitted the additional documents sought in its 149th meeting. The Committee also noted that vide letter dated 09.02.24, the Senior Geologist, M&G Department, Thiruvananthapuram informed that the letter of intent issued to Sri. Martin Varghese is canceled due to the submission of fake documents. Since the LoI is canceled by the issuing authority, the Committee cannot continue with the appraisal. Besides as per the PARIVESH portal, the status of the application is '*Delisted*'. In these circumstances, **the Committee decided to recommend to reject the proposal.**

Item No.161.03 **Environmental Clearance for the Quarry Project of Sri. Muhammed Haji Moolayil at Sy.No.1293 & 238 in Ayyankunnu Village, Iritty Taluk, Kannur, Kerala.**
(File No.928/SEIAA/EC4/3894/2015)

The Committee examined the proposal and discussed the field inspection report submitted on 8-08-2023. The Committee noted that on receipt of the FIR on 08.08.2023, there is a delay of 7 months to place the FIR before the Committee. The Committee observed the lapse seriously and decided get an explanation from the responsible person for the same**.** The Committee discussed the field verification report conducted to assess the compliance status of the EC conditions and observed that certain conditions are yet to be complied with. **Based on discussions, the committee decided to direct the proponent to comply with the following observations and submit the compliance report within 3 months:**

1. Since part of the mining area falls in the moderate landslide hazard zone, approval of the District Level Crisis Management Committee should be obtained
2. Topsoil and overburden should be stored in the designated place on the lower northern slope away from the working area and provided with gabion walls for protection.
3. The stream flowing along the boundary should be protected and maintained. The water draining into the rainwater harvesting system should be clarified before letting out into this stream
4. Garland drains and catch water drains along with silt traps, siltation ponds and outflow channel should be provided and maintained by removing silt periodically.
5. Green Belt should be developed all around the periphery in the buffer zone with indigenous species.
6. As agreed, the proponent should spend and produce proof of setting apart Rs. 7.5 lakh for non-recurring part and Rs. 5 lakh per annum for CSR activities for the welfare of the local community in consultation with the local Panchayath.
7. Avenue trees of indigenous species should be planted and nurtured on either side of all the roads in and around the project areas.
8. Proper benches as per the EC conditions need to be formed and maintained and the slope of the quarry face should be less than 45°.
9. Topsoil dump should be stabilized by planting trees.
10. Proper fencing should be constructed all around the project area.
11. Loose boulders should be removed with utmost care.
12. No storage of water should be done in the quarry pit as any seepage through fractures and joints, if present, will have a significant adverse impact.
13. Extreme care should be taken to prevent any blockage or diversion of the surface drain in and around the project area
14. The garland canal, silt traps, siltation pond, and outflow channel should be cleaned periodically by removing the silt deposited such that there should not be any hindrance to overland flow.
15. No blasting should be done during the days of moderate and heavy rains considering the high land fragility of the region.
16. Only short hole blasting should be done by adopting the NONEL technique with a drill hole of 32mm diameter and depth of 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m.
17. The time of blasting should be different from that of the adjacent quarry. A schedule for blasting and transport of the mined-out material should be prepared in consultation with the adjacent quarry owner and followed.
18. Geo-tagged photographs of different stages of green belt development, protection of overburden dump; periodic cleaning of garland drain, silt traps, siltation ponds, and outflow channel should be submitted along with half-yearly compliance report.
19. Mined-out benches should be filled with topsoil and planted with local plant species.
20. An affidavit agreeing to the above conditions should be submitted by the Proponent.

The Committee also decided to inform the SEIAA regarding the inordinate delay in placing this field inspection report before the Committee and request SEIAA to direct the concerned to take follow up actions without further delay.

Item No.161.04 **Environmental Clearance for the Building Stone Quarry Project of Sri. Vineeth Joseph Vazathara, Managing Director, M/s Vazhathara Granites and Aggregates Pvt. Ltd., at survey Nos. 21/1, 3, 4 & 5 (p), 25/2 & 3(p), 26, 26/1, 3, 1-1, & 4-1 (p) & 26/4 in Kottickal Village, Kanjirapally Taluk, Kottayam, Kerala.**
(File No.1105/EC/SEIAA/KL/2017)

The committee examined the proposal and discussed the field inspection report conducted on 13-01-2024 as per the direction of SEIAA in its 134th meeting. The Committee agreed to the following findings of the subcommittee**:**

1. As per the filing dated 6.12.2022 in WP (C) No. 39686/2022, it is evident that the Proponent was conducting mining in 2.0249 Ha from 15.1.2016 to 8.8.2019 till the stop memo was issued on 8.8.2019
2. The Kerala State Biodiversity Board vide Lr. No. 111/A3/KSBB/2013 dated 24.9.2013 recommended to stop quarry operation till a comprehensive EIA study is done,
3. Hon. High Court vide order on WP(C) No. 13769 of 2016 dated 17.8.2016 directed issuance of stop memo.
4. The Kerala State Biodiversity Board vide Lr. No. A2/1395/KSBB/2019 dated 15.5.2019 recommended that the quarrying activities in the area will affect the ecology.
5. As per movement Permit No. GBS/QL/04/2017-18/VCJ/935/DOY/ML/2017 dated 30.11.2017, the District Geologist issued movement permit for the period from 30.11.2017 to 28.2.2018.
6. Vide File No. 814439 dated 6.7.2018, the Kerala State Pollution Control Board renewed the Integrated Consent to Operate to M/s.Vazhathara Granites and Aggregates Ltd., Koottikkal up to 30.6.2023 though the lease period was ending on 8.12.2020.
7. A detailed study report conducted by the Kerala Sasthra Sahithya Parishad on the landslides of 2021 in Koottikkal-Kokkayar region observed that major landslides occurred in 6 sites which are (i) Ward 10 of Koottikkal at Anangumpadi in the High Hazard zone, (ii) Koottikkal Ward 3 in the Medium Hazard Zone, (iii) Ward 7 of Kokkayar at Poovanchi in Medium Hazard Zone, (iv) Ward 3 of Koottikkal at Plappally in High Hazard Zone, (v) Kokkayar at Vembala- Mukkulam Top in High Hazard Zone and (vi) Kokkayar at Vadakkemala in High Hazard Zone and Medium Hazard Zone. At Vadakkemala, there were six landslides in total; 3 in High Hazard Zones and 3 in Medium Hazard Zones.
8. The visual observation at the site indicated that the site is not subjected to mining and the crusher is not operated for some time. The representatives of the Proponent informed that the mine and crusher are not working since the stop memo was issued on 8.8.2019.
9. The crusher is in a partially dilapidated state.
10. The limited local enquiry also substantiated that the quarry is not operational after the Koottikkal flood.

11. It is observed from the abandoned mine that mining is not done in compliance to the stipulations.

Based on detailed discussion, the Committee decided to submit the field verification report to SEIAA for further action with the following recommendations:

1. **All the actions as per the decision of the 134th meeting of the SEIAA may be executed in a time-bound manner.**
2. **The details of the decision of the 134th meeting of the SEIAA and subsequent findings of the SEAC may be brought to the notice of the Hon. Court in the WP (C) No. 39686/2022.**

Item No.161.05 **Environmental Clearance to M/s Darshan Granites for Building Stone Quarry Project, for an area of 7.8705 ha in Re-Survey Block No. 18, Re-Survey Nos. 13/2, 13/3, 18/2, 18/3, 40/1-1, 40/1-2, 40/4, 40/4-2, 40/6, 41/1-1, 41/1-2, 41/2, 41/3, 41/4, 41/5 (Patta land - 6.1918 ha.), 18/1, 41/6 (Govt. land - 1.6787 ha.), at Chakkuvarakkal Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/410787/2022, 2196/EC2/2023/SEIAA)**

The Committee discussed the hearing note submitted by the project proponent Sri. Ajai Sundaresh in detail along with the validity of ToR, validity of public consultation, baseline environmental data, and NOC for the government land. **Considering the hearing note dated 07/02/2024, the Committee noticed that the project proponent is eligible for the relaxation of Covid period. In these circumstances, the Committee decided to direct the project proponent to submit application along with revalidated one season non-monsoon baseline data.**

Item No.161.06 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Muhammed Shareef for an area of 0.8786 Ha at Re.SyNo.82/1-20 in Puzhakkattiri Village, Perinthalmanna Taluk, Malappuram (SIA/KL/MIN/158114/2020, 1801/EC6/2020/SEIAA)**

The Sub Committee examined the study report of NIT Suratkal, and Civil Engineering Department, Govt. College, Thrissur. The Committee observed that both the studies indicates that the area has moderately high porosity, low permeability, high water holding capacity and a soil thickness of about 2.3m. The slope of the area is also steep (26 to 28 degree). The Committee noticed that as per the reports, the project area is fragile and precautionary principle is applicable. **Hence the Committee decided to adhere to its previous decision to recommend rejection of the proposal.**

PARIVESH FILES
PART – 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.01 **Environmental Clearance for proposed expansion of existing MES Medical College & Hospital to be developed by M/s The Muslim Educational Society at Sy. Nos. 147, 147/3, 147/4, 148/1-3, 148/1-4, 148/2, 148/2-1, 148/3-7, 148/3-8, 148/3-9 in Angadippuram Village and Sy. Nos. 19/3-1, 21/2-15, 21/2-16, 21/2-18, 21/3-5, 21/4-4, 21/4-6, 21/5-1, 21/5-2, 21/6-3, 21/6-4, 29/14-2, 2-/17-8, 32, /4-2, 33/14-1, 33/7-2, 33/8-1 in Puzhakkattiri Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/INFRA2/404063/2022, 2133/EC6/2022/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. The proposal is for the expansion of the project by adding 41004 m^2 area to the existing buildings having an area of 96,475 m2. The PP claims that the existing building is constructed prior to 2006 with certain proof. The plot area is 2,17,688.50 sq.m. (21.7688 Ha). The total project cost is Rs.111.11 Lakh. **Based on discussions, the committee recommended EC for 10 years for the project subject to the following Specific Conditions in addition to the General Conditions.**

1. The stipulated FAR should be complied with.
2. The CER expenditure proposed and agreed by the Project Proponent should be expended through a separate bank account and the account statement and the beneficiary list should be uploaded along with half yearly compliance report.
3. The existing STP should be augmented with SBR, including Tertiary Treatment Unit to ensure the quality of treated water for re-use /recycling for flushing/gardening/ firefighting/ recharge of local groundwater as per the plan submitted.
4. Water-efficient plumbing features for saving water use should be adopted as per the plan submitted.
5. The existing water sources should be conserved as per the protection plan submitted.
6. The drainage plan submitted shall be adopted and the overflow of the drainage shall be maintained as per the plan.
7. 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.
8. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
9. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care,

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

10. Climate responsive design as per Green Building Guidelines in practice should be adopted
11. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted
12. Vegetation should be developed appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
13. Exposed roof area and covered parking should be covered with material having high solar reflective index
14. Building design should cater to differently-abled citizens
15. 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
16. Design of the building should comply with Energy Building Code as applicable
17. Energy conservation measures as proposed in the application should be adopted in total
18. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
19. Construction work should be carried out during day time only.
20. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
21. All vehicles carrying construction materials should be fully covered and protected.
22. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
23. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
24. Occupational health safety measures for the workers should be taken during the construction.
25. All vehicles during the construction phase should carry PUC certificate.
26. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
27. Green belt should be developed along the periphery of the site with indigenous species.

Item No.02 **Environmental Clearance for Residential apartment project of Sri. Jeejo Simon, Director, M/s Masaaki Developers Pvt. Ltd. for an area of 0.8516 ha at Sy. Nos. 713/2 in Chembukavu Village, Thrissur Corporation, Thrissur Taluk & District (SIA/KL/INFRA2/428788/2023, 2286/EC6/2023/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 60, 243.79 m^2. The area of the existing building is 600m^2. The total Plot Area is 0.8516 ha.

The proposed height of the structure is 177.60m with 55 floors (3 Basements, Ground Floor, 3 MLCP floors, 48 floors, 137 dwelling units). The total project cost is Rs. 16974 lakhs. **Based on discussions, the committee recommended EC for 10 years for the project subject to the following Specific Conditions in addition to the General Conditions.**

1. The stipulated FAR should be complied with.
2. The CER proposal is for building environment improvement facility should be carried out in the first two years and maintained in the rest of the EC period.
3. The Project Proponent should ensure that the stormwater discharge from the compound should be strictly according to the carrying capacity of the public drain and in case required its carrying capacity should be enhanced by considering the terrain condition.
4. The balance quantity of 36, 000m^3 of the excavated earth shall be deposited in the land bank/Govt approved works as proposed in the application.
5. 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.
6. 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.
7. The proponent should implement the drainage plan as per the proposal.
8. Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
9. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
10. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
11. Climate responsive design as per Green Building Guidelines in practice should be adopted
12. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted

13. Vegetation should be developed appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
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. Energy Conservation Building Code Rules, 2018 should be complied with.
18. Energy conservation measures as proposed in the application should be adopted in total
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.
28. Green belt should be developed along the periphery of the site with indigenous species.

<u>Item No.03</u> **Environmental Clearance for the Commercial Complex Project to be developed by Sri. Mohamed Fazim. P, M/s Nilambur Lands LLP at Survey Nos. 145 & 149 in Mampad Village, Nilambur Taluk, Malappuram. (SIA/KL/INFRA2/430386/2023, 2309/EC6/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total cumulative built-up area for which studies are conducted is 80, 950m^2. The area of the existing building is 1000 m^2. The total Plot area is 2.5204 ha (25,204 m^2). The Height of the structure proposed is 30m. The proposed FAR is 2.41. The proposed Project cost is 10,000 lakh. **Based on discussions, the committee decided to recommend EC for 10 years for the project subject to the following Specific Conditions in addition to the General Conditions.**

1. The stipulated FAR should be complied with.

2. Climate-responsive design as per Green Building Guidelines in practice should be adopted
3. Vide GO (MS) No. 39/2022/LSGD dated 25.2.2022, the Government of Kerala has introduced green rating and green building certification to buildings based on green standards. The guidelines published as part of the GO should be adhered to
4. 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.
5. The exposed roof area and covered parking should be covered with material having a high solar reflective index
6. Appropriate action should be taken to ensure that the excess rainwater runoff is properly tackled at the newly possessed marshy land with sufficient storage ponds
7. 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
8. The Energy Conservation Building Code rules should be complied with
9. Energy conservation measures as proposed in the application should be adopted in total.
10. Periodic monitoring of water samples from the groundwater sources should be carried out. Adequate treatment methods should be followed to remove the contaminants
11. 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.
12. Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
13. The small deep pond bordering the north-western boundary of the site should be protected.
14. 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.
15. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
16. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
17. Vegetation should be developed appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.
18. Building design should cater to differently-abled citizens

19. 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
20. Energy conservation measures as proposed in the application should be adopted in total
21. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction.
22. Construction work should be carried out during day time only.
23. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
24. All vehicles carrying construction materials should be fully covered and protected.
25. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
26. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
27. Occupational health safety measures for the workers should be taken during the construction.
28. All vehicles during the construction phase should carry PUC certificate.
29. 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.
30. Green belt should be developed along the periphery of the site with indigenous species.
31. 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.

<u>Item No.04</u> **Environmental Clearance for Granite Building Stone of Sri. P.K. Unnikrishnan for an area 0.9660Ha at Block No. 20, Sy. No. 75/4 in Pirayiri Village, Palakkad Taluk & District, Kerala. (SIA/KL/MIN/138486/2020, 1984/EC1/2022/SEIAA).**

The Committee verified the additional documents submitted by the project proponent sought in the 153rd SEAC meeting and found them satisfactory except the surface contour map. Since the surface contour map submitted as part of ADS is different considering the spot elevations given in the mine plan, the elevation data given in the mine plan has been used. As per the mine plan, the total mineable reserve is 1,72,993MT and the production plan projected in the mine plan is only 1,36,756 MT. Since the production plan is only 1,36,756 MT for three years, this is considered as the mine life instead of the mine life of four years as given in the mine plan for extracting the mineable reserve of 1,72,993 MT. The lowest elevation of the site is 180m and the highest elevation is 197.31m above MSL. The depth of mine proposed is 165m above MSL. The depth to water table (3.5m bgl) is measured in a seasonal well and therefore the depth to water table given in the application (25m bgl) is considered. The cost for EMP is Rs. 19,55,000/- including recurring cost (Rs.1,55,000/-) and the budget given for CER is Rs. 4,80,000/-. The project cost is 80 lakh. The site does not fall

in the landslide hazard zone. The distance to the nearest wild life sanctuary is 12km. **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 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
6. 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.
7. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. 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.
9. The haulage road should be provided with sprinkling facility to prevent dust pollution.
10. 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).
11. 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.
12. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
13. Adequate sanitation, waste management and 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.05 **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. (Proposal No: SIA/KL/MIN/209584/2021, File No: 1903/EC3/2021/SEIAA)**

The committee examined the revised EMP submitted by the PP and observed that the report is not authenticated by an accredited consultant. **Based on discussions, the Committee decided to invite the proponent for presenting the detailed Environment Management Plan.**

Item No.06 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. K. Gangadharan, for area of 1.3710 ha at Re-Survey No. 151/1, 151/4, 1/1 of Puthur Village, Thalassery Taluk, Kannur, Kerala. (SIA/KL/MIN/218355/2021, 2094/EC4/2022/SEIAA)**

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. The surface water quality is found slightly contaminated. The total mineable reserve is 3,25,443 MT, production rate is 40,484 TPA and the mine life is 11 years. The highest elevation is 130 m and the lowest elevation is 90 m above MSL. The depth to water table is 15m below ground level. The high hazard zone is at 4.70 km and the moderate hazard zone is at 2.03 km. The nearest house is at 316 m. The total project cost is Rs.2 Crore. **Based on discussion, the committee decided to recommend EC for a mine life of 11 years subject to the following specific conditions in addition to the general conditions.**

1. The depth of mining should be limited to 77 m above MSL considering the depth to water table.
2. A retaining wall of stone rubble with wire mesh of sufficient width and strength (not less than 2m) should be constructed at the bottom of the slope of the quarry lease area at the south eastern side of the project area to arrest any likely roll of boulders during heavy rain considering the steep slope
3. Haulage road should be developed prior to the commencement of mining and it should be maintained well with frequent sprinkling
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 in the land owned by the proponent.

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 and treatment
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 two years of the EC period and its operation and maintenance should be done till the completion of mine closure plan.
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.07 **Environmental Clearance for the mining of granite building stone quarry of Sri. Shijo T. Paul for an area of 0.9235 Ha at survey No: 797/1 Apt in Kalloorkad Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/255880/2022,2081/EC3/2022/SEIAA)**

The Committee examined the additional documents submitted by Sri. Shijo T.Paul and found them satisfactory. As per the application the mineable reserve is 2,22,823 MT. The elevation

difference is 160 MSL to 128 MSL. The depth to water table is 9m below ground level at a spot with elevation of 98m Bove MSL. The nearest built structure is at 55m from the proposed area. The Thattekad Bird sanctuary is at 18.55m. The life of mine is 3 years. The total project cost is 100 lakhs. **Based on discussions, 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. All the conditions mentioned in the affidavit of the proponent dated 2nd March 2024 should be implemented strictly and the status should be uploaded in the HYCR.
2. The mining should be limited to 120m above MSL considering the depth to water table.
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 sedimentation and filtration
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. Temporary wall of height 2m should be erected around the project area where houses are located (connecting BP4, BP1, BP2 and BP7), making use of light roofing sheets.
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 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. 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).
14. 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.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
16. Adequate sanitation, waste management and 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.08 **Environmental Clearance for the Granite Building stone Quarry project of Sri. M.P. Kuriakose for an area of 1.0855 Ha at Survey Nos.122/2 & 122/3 in Padichira Village, Sulthan bathery Taluk, Wayanad.**
(SIA/KL/MIN/278782/2022, 1299/EC1/2019/SEIAA).

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the application, the mineable reserve is 167263 MT with an annual production of 33500 MT. The life of mine is 5 years. The nearest building is at 101.4 m. The highest and lowest elevation is 760 m & 755 m respectively. The depth to water table as per the additional document is 8.4m bgl at the spot with ground elevation of 724 m. The distance to the medium hazard zone is 3.72 km and to the high hazard zone is 13.13 km. The project proponent has submitted the proof of application for Wildlife Clearance. The total project cost is 1.21 Crore. **Based on discussions, 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 depth of mining to be limited to 745m 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.

8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.
11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 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 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Rasheed.K for an area of 0.9498 Ha at Survey Nos.1/1A in Pulamanthole Village, Perinthalmanna Taluk, Malappuram.(Additional Documents Received) (SIA/KL/MIN/282125/2022, 2106/EC6/2022/SEIAA)**

The Committee examined the additional documents submitted by the project Proponent and found them satisfactory. As per the application, the total mineable reserve is 1,19,421 MT 6,60,160 MT with an average annual production of 23884 TPA. The mine life is 5 years. The distance to the moderate hazard zone is 625m. The project cost is Rs.150 Lakh. The site elevation vary from 155m to 105m and the depth to water table is 6m bgl. The ultimate mine depth proposed is 95m above MSL. The life of mine is 5 years. **Based on discussions, 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 mining should be limited to 100m 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.
8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.
11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 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.10 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. Kurian Jose for an area of 4.0425 ha at Sy. Nos. 340/1AS/75/6/2, 340/1A/S/75/6/3/2, 340/1A/S/75/6/9, 340/1A/S/75/6/10 in Kottappady Village, Kothamangalam Taluk, Ernakulam (SIA/KL/MIN/291267/2022, 2116/EC3/2022/SEIAA)**

The 135th meeting of the SEIAA meeting referred back the proposal to SEAC to give a definite recommendation after relooking four specific aspects including the concealment of fact in the application. The Committee sought explanation from the Project Proponent regarding the observation of the SEIAA "In the PFR, Form IM and other documents, the project proponent discloses that there is a *thodu* near around 400 m. But the field inspection report states that there is a bridge across the stream at 65 m North West of the project site. Therefore, the project proponent has hidden the fact in the application". The Proponent submitted his explanation along with a map showing Toposheet overlaid with ML area, Environmental Plan, Map showing Drainage of Kottappady Grama Panchayath and Photographs of the ML area and 2nd Order stream, Culvert and Pond, as follows:
"The relevant toposheet in which the ML area is falling is referred in Form 1, Form 1M, PFR and the mining plan. In the instant case, the relevant toposheet number in which the project site is falling in 58B/12 (C43K12). The said toposheet map which is part of the PFR and is uploaded along with our application. In this document of toposheet, the thodu (2nd Order stream) is shown in North West direction and at a distance of about 70 meters from the periphery of the project site (from BP-07). Further, the Environmental Plan which is part of the approved mining plan and which is also part of our application, the 2nd Order stream is shown in North West direction and at a distance of about 70 meters from the periphery of the project site. Further, the drainage map of Kottappady Grama Panchayat in which the project site is overlaid is part of the presentation made before SEAC, the stream in the North West direction is shown. In all these maps, the drain in the North West direction is shown at a distance of about 70 m from the periphery of the project site. Therefore, there is no attempt by the PP for the concealment of the information. However, in PFR and in Form 1M, the distance to the nearest thodu is marked inadvertently as about 400 m. This is not a deliberate concealment and the PP unconditionally seek apology for the same".

The Committee noted that Environment plan (1:5000) showing details within 500m radius of the site indicates the stream near to the north west side of the site. In the map, the stream may be seen within 100m offset line in the revised drainage plan submitted as part of the ADS submitted on 04.02.2023. Further, the Survey map certified by the Taluk Officer dated 08.02.2022, also shows thodu at 78.3m which was submitted as part of ADS dt. 25.09.2023. **Based on discussions, the Committee decided to place the above submission of the Proponent and the observation of the SEAC before the Authority to decide whether there is hiding of fact in the application.**

Regarding the second observation of the SEIAA, "The ultimate depth after mining is 35 m above MSL and in the field inspection report it is stated that the stream bed level is at 55 m above MSL", it may be noted that the stream bed level was interpreted based on the google

image, which at times may be erroneous. However, as per the toposheet data, the stream bed level may be interpreted as 34m AMSL. Therefore, the ultimate depth of mine proposed as 35m above AMSL was considered permissible. However, the depth to water table reported in the application is 5m bgl and therefore, it is desirable to limit the depth of mine as 55m above MSL. **The Committee decided to place the above explanation before the Authority.**

Regarding the third and fourth observation of the SEIAA, " (i) Impact of comparatively high overburden thickness, which is up to 3m and (ii) Steep slope near N-E and N boundaries of project area (Near BP 10, BP 11 and BP 1, Near BP 8 and BP 7)", it may be noted that the Expert members, who conducted the field inspection, did not consider it necessary to suggest any specific precaution other than the normal safeguards such as uninterrupted drainage facility in the project area. This is based on the fact that the general slope is gentle to moderate and the terrain, outside the proposed mine area at BP10, BP11, BP1, BP8 and BP7 is having thick vegetation cover. Moreover, the site is not very close to landslide hazard zones. **The Committee decided to place the above explanation before the Authority.**

Based on the submission of the Project Proponent, observations and explanations of the Committee and the depth to water table reported by the Proponent in the application, the Authority may once again consider the recommendation made in the 151st meeting on the subject matter with the following additional specific, "The depth of mining should be limited to 55m above MSL considering the depth to water table".

<u>Item No.11</u> **Environmental Granite Building Stone Quarry of Sri. Binoj. K. Baby, Managing Partner, M/s. Pulpally Stone Crushers for an area of 4.1000 Ha at Block No.3, ReSurvey Nos. 398/8, 398/30, 420/2, 420/3, 420/4, 420/6, 420/7, 420/8, 420/11, 421/2, 421/3, 421/4, 421/7 in Padichira Village, Sultan Bathery Taluk, Wayanad.**
(SIA/KL/MIN/402910/2022, 2124/EC2/2022/SEIAA)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 15,35,746 MT with an average annual production of average annual production of 76787.3 TPA. The life of mine is 20 years. The estimated project cost is 4.58 crore. The nearest house is at 55m and distance to the nearest built structure is 15m from the boundary between BP10 and BP1. An additional buffer is provided all along the boundary from BP-8,9,10,1and 2, thereby the effective distance of the built structure from the mining area will be 40m, but it is necessary to maintain a buffer distance of 50m from the mining boundary. The highest and lowest elevation is at 840 m MSL to 795 m MSL respectively. The depth to water table is 8-20m below ground level. Therefore, the ultimate depth of mining should be limited to 785 m above MSL. The project area is at 0.68 km to medium hazard zone and 13.93 km to high hazard zone. The Wayanad Wild Life Sanctuary is at a distance of 2.24 km, the Bandipur National Park is at 3.5 km and the Nagarhole Tiger Reserve is at 4.06 km. **The project proponent has submitted proof of application for Wildlife Clearance. Based on**

discussions, the Committee decided to recommend EC for the mine life of 20 years subject to the following Specific Conditions in addition to the General Conditions:

1. The ultimate depth of mining should be limited to 785m above MSL considering the depth to water table.
2. Buffer distance of 50 m should be maintained from the boundary of the project area to the nearest built structure.
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. Fencing with GI sheets along the boundary between BP-9, 10, 1 for a minimum of 3m height apart from the normal fencing should be provided prior to the commencement of mining.
5. The green belt should be initiated prior to the commencement of mining using indigenous species.
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. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
9. 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 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. 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).
14. 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.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
16. Adequate sanitation, waste management, and 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 solar power. Solar energy shall be utilized for lighting and office purposes

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.
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
20. Rainwater harvesting facility should be provided as per the guidelines of the Central Groundwater Authority and geotagged photographs of the same shall be submitted along with first HYCR

Item No.12 **Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Jaimon Joseph, for an area of 0.4236 Ha. at Block No.23, Re-Survey Nos.397/3 in Mulakkulam Village, Vaikom Taluk, Kottayam.**
(SIA/KL/MIN/426441/2023, 2411/EC4/2023/SEIAA)

The Committee examined the additional documents submitted by the project Proponent and found that there is a lack of clarity in the following.

1. Depth to water table measured in the nearest open well to the site with geotagged photographs.
2. The distance between the quarry and the nearest building is only 8m. Plan for maintaining the stipulated buffer distance between the building and the project boundary**.**

The Committee decided to direct the Proponent to submit detailed clarification regarding the above aspects.

Item No.13 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Sibi P Alias for an area of 0.7837 Ha at Survey Nos. 194/9, 194/9, 194/11, 194/11/1 in Varappetty Village, Kothamangalam, Ernakulam.**
(SIA/KL/MIN/432348/2023, 2296/EC3/2023/SEIAA)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total mineable reserve is 208848 MT. The total project cost is Rs.80 Lakh. The life of mine is 4 years. The highest elevation is 54 m and the lowest elevation is at 38 m. The depth to water table is 11m bgl. The nearest house is at 88 m. The high hazard zone is at 16.36 km and the moderate hazard zone is at 13.30 km. The Thattekkad Bird Sanctuary is at 14.16 km. **Based on discussion, the Committee decided to recommend EC for mine life of 4 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Considering the depth to water table the depth of mining should be limited to 27m 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.
8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.
11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Rainwater harvesting facility should be provided as per the guidelines of the Central Groundwater Authority and geotagged photographs of the same shall be submitted along with first HYCR.

Item No.14 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Stephen Joseph, Managing Director, M/s Crystal Aggregates Pvt. Ltd for an area of 0.9108 Ha at Survey Nos. 508/3/2, 510/3B/2 located in Thirumarady Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/434752/2023, 2417/EC1/2023/SEIAA)**

As invited the project proponent Sri. Stephen Joseph, Managing Director, M/s Crystal Aggregates Pvt. Ltd. and RQP Balaraman were present. The RQP made the presentation. As per the application the total mineable reserve is 143490 MT. The life of mine is 5 years. The highest elevation of the permit area is 184 m AMSL and lowest is 160 m AMSL. The depth to water table is 5m bgl. The total project cost is Rs.1 crore. The 157th meeting of the SEAC decided to invite the project proponent for a presentation after project proponent submit the application through parivesh portal with all required documents including the action/ procedures completed so far. The project proponent submitted latest baseline monitoring data, letter from Village Officer, Thirumarady stating that there are no buildings within 50m of the project site, site photographs and affidavit. **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. Considering the depth to water table the depth of mining should be limited to 155m 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.
8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.

11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Rainwater harvesting facility should be provided as per the guidelines of the Central Groundwater Authority and geotagged photographs of the same shall be submitted along with first HYCR.

Item No.15 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Anil Kumar for an area of 0.1863 Ha at Block No. 04, Re Survey No: 88/6-2 in Kattipparuthi Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/434954/2023, 2334/EC6/2023/SEIAA)**

The Committee examined the additional documents submitted by the project Proponent and found them satisfactory. As per the application, the total mineable reserve is 16302 MT. The life of mine is 1 year. The depth to water table is 7m below ground level at 61m AMSL. The total project cost is Rs.5,42,050/-. The medium hazard zone is at 9.70 km. **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 depth of mining should be limited to 5.5m 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 pm).

Item No.16 **Revalidation of EC issued by DEIAA, Idukki to the Granite Building Stone Quarry of Sri. Shiju Thomas for an area of 4.3049 Ha at Survey Nos. 294/1pt, 294/2 pt, 295/5, 295/6 pt, 296/2 pt and 356/1-1 pt in Alakkode Village, Thodupuzha Taluk, Idukki (SIA/KL/MIN/435329/2023, 2385/EC2/2023/SEIAA)**

The Committee examined the additional documents sought in the 157th SEAC meeting. The Committee noted the submission of CCR dated 14.3.2023, revised project cost as Rs. 3.35 Cr, revised CER proposal for Rs. 5.5 lakh, EMP cost of Rs. 45 lakh including recurring expenses, depth to water as 8m bgl and the letter dt. 19.2.2024 from the Mining & Geology Dept. stating that the balance minable material is 6,32,046 MT. The site elevation varies from 81m to 103m above MSL and the ultimate depth of mining proposed is 50m above MSL. As per the CCR dated 14.3.2023, the mining is done up to 76m above MSL and the ultimate depth of mining as per the approved mine plan is 50m above MSL. It is stipulated in the EC No. 1/2016/DEIAA/IDK/KER dt. 20.4.2017 that there should not be any quarrying in the already quarried pit as the depth of pit already reached more than 20m. As per OM dated 28.4.2023, the PP has to submit 12 documental along with the application, many of which are not submitted. **In the circumstance, the Committee decided to direct the Proponent to submit all the documents sought as per OM dated 28.4.2023. The Committee also decided to direct the Proponent to submit report on the feasibility of mining considering that the depth to water table is 8m bgl which is already penetrated and that the depth of quarry pit already reached more than 20m, the maximum depth permitted as per the earlier EC.**

Item No.17 **Environmental Clearance application for the Granite Building Stone Quarry Project of Sri. Ranju K. K., Managing Director, M/s. Neeloor Aggregates Pvt Ltd., for an area of 3.2225 Ha. at Block No. 30, Re. Survey No.422/1, 422/2, 440/1, 440/3, 440/4, 441/5, 442/1 in Kadanadu Village, Meenachil Taluk, Kottayam (SIA/KL/MIN/435475/2023, 2331/EC3/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. The PP has also submitted recently monitored baseline data. The proposed project area partially falls in moderate hazard zone but the Proponent has not submitted the approval of the District Level Crisis Management Committee for mining. **Based on discussions, the committee decided to invite the PP for presentation.**

Item No.18 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Harikrishnan P T for an area of 0.1863 Ha at Block No. 04, Re Survey Nos. 88/6-4, 88/7-1 in Kattipparuthi Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/435664/2023, 2335/EC6/2023/SEIAA)**

The Committee examined the additional documents submitted by the PP and found them satisfactory. As per the application, the total mineable reserve is 16302 MT. The life of mine is 1 year. The total project cost is Rs.5.42 lakh. The depth to water table is 7m below ground level at 61m AMSL. **Based on discussions, 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 pm)

Item No.19 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Husain Kunhi. B for an area of 0.0971 Ha at Survey No-261/2A pt1 in Nekraje Village, Kasaragod Taluk, Kasaragod (SIA/KL/MIN/436720/2023, 2350/EC4/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 4290 MT. The life of mine is 1 year. The highest elevation of the permit area is 133 m MSL and the lowest is 129 m MSL. The total project cost is Rs.10 lakh. The depth of mining is 4m bgl. The depth to water table is 12m below ground level. The proposed land having an elevation of about 133m AMSL. **Based on discussions, 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 pm)

Item No.20 **Environmental Clearance for the Laterite Building Stone Quarry of Smt. Sameena V.V for an area of 0.1295 Ha at Re-Survey No: 25/155 of Manatheri Village, Thalassery Taluk, Kannur. (SIA/KL/MIN/437681/2023, 2355/EC4/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 10198 MT. The life of mine is 1 year. A shed is located at a distance of 35 m. The depth to water table is 8m below ground level at 104m AMSL. The depth of mining proposed is 6m. The total project cost is Rs.4.06 lakh. **Based on discussions, 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 pm).

Item No.21 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Amjath M.A for an area of 0.9979 Ha at Survey Nos. 372/1A/16, 372/1A/4/9/7 & 372/1A/4/9/8 at Kottapady Village, Kothamangalam Taluk, Ernakulam (SIA/KL/MIN/438659/2023, 2418/EC1/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 219769 MT and the life of mine is 2 years. The distance to the high-hazard zone is 5.9 km. The highest elevation of the permit area is 102 m AMSL and the lowest is 86 m AMSL. The depth to water table is 6m below ground level. The nearest house is at 151m and the nearest building at 113m. The total project cost is Rs.71.65 lakh. The PP has submitted proof of application submitted for wildlife clearance. **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 80m 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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.
8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.
11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).

12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 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.
19. Rainwater harvesting facility should be provided as per the guidelines of the Central Groundwater Authority and geotagged photographs of the same shall be submitted along with first HYCR.

Item No.22 **Environmental Clearance for the Ordinary Earth submitted by Sri. Abbas P. S for an area of 36.74 Ares at Block No:22, Re.SurveyNo.431/6-2,431/7 in Arakkappady Village, Kunnathunad Taluk, Ernakulam.**
(Old proposal No. SIA/KL/MIN/259995/2022)
(NewProposalNo. SIA/KL/MIN/439465/2023, 2398/EC1/2023/SEIAA)

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the quantity of ordinary earth proposed for mining is 30,000 MT. The project cost is Rs.8 lakh. The Committee observed that there is a house within 42.7m and 47m from the proposed site. The life of mine proposed is 1 year. **Based on discussions, 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. A buffer distance of 50m should be maintained from the boundary of the proposed area to the nearest building.
2. The depth of mining should be limited to 6m bgl considering the depth to water table.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above groundwater table at the site.
5. The excavation activity should not alter the natural drainage pattern of the area
6. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
7. Appropriate fencing all around the excavated pit should be made to prevent any mishap.

8. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
9. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
10. Workers/labourers should be provided with facilities for drinking water and sanitation.
11. 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.
12. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
13. 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.
14. 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.
15. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
16. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
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 pm)

Item No.23 **Environmental Clearance for the mining of Ordinary Earth by Sri. Saji. S for an area of 0.9992 Ha at Block No19, Re Survey nos.119/4-3,119/4-2,119/4-2-2,119/4-2-4,119/4-2-5 in Rayamangalam Village, Kunnathunad Taluk, Ernakulam.**
(SIA/KL/MIN/441308/2023, 2405/EC1/2023/SEIAA)

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 36888 MT. The life of mine is 1 year. A school is located at 160 m. and a house is at 30.6 near BP3. The depth of mining proposed is 2m below ground level. The total project cost is Rs.10 lakh. **Based on discussions, 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/labourers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 15m from any civil structure should be kept from the periphery of the project area as the depth of mining is only 2m bgl.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

Item No.24 **Environmental Clearance for Granite Building Stone Quarry of Sri. G. Raju for an area of 0.7285 Ha at Block No.13, Re-Survey Nos. 175/7- 1, 175/7-2, 174/1 of Kalayapuram Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/442089/2023, 2374/EC1/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 185132.5 MT with an annual production of 61710.83 MTA. The life of mine is 3 years. The highest elevation of the permit area is 90 m AMSL and lowest is 55 m AMSL. The ultimate depth of mine is 55m above MSL and the depth to water table is 5m below ground level. The nearest house is at 65.2 m. The distance to moderate hazard zone is 10.9 km. The total project cost is Rs.1.05 lakh. **Based on discussions, 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. A buffer distance of 50m should be maintained between the mine boundary and the nearest building/built structure.
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. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. 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.
8. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
9. 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.
10. The haulage road should be provided with sprinkling facility to prevent dust pollution.
11. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
13. 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 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.

<u>Item No.25</u> **Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Rajesh C.M for an area of 0.1942 Ha at Block No:91, Re-Survey Nos:46/256, 46/257 in Kalliad Village, Iritty Taluk, Kannur (SIA/KL/MIN/444818/2023, 2381/EC4/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 16994 MT with an annual production of 8497 MTA. The life of mine is 2 years. The nearest house is at 383.1 m. The total project cost is Rs.6.02 lakh. The depth to water table is 7m bgl. **Based on**

discussions, 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 pm).

Item No.26 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Kadankottu Kanakan for an area of 0.1944 Ha at Block no.137, Re- Survey No.38/106 of Chuzhali Village, Thaliparamba Taluk, Kannur. (SIA/KL/MIN/446637/2023, 2422/EC4/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 17010 MT with an annual production of 8505 MTA. The life of mine is 2 years. A pig farm is situated at a distance of 109m from the project site. The depth to water table is 7m bgl. The total project cost is Rs.4.23 lakh. **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 5m bgl.
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 pm).

Item No.27 **Environmental Clearance for the Laterite Building Stone Quarry Project of Smt. Kanchana M for an area of 0.1972 Ha at Block No.37, Re-Survey No.45/132 in Perinthatta Village, Payyannur Taluk, Kannur. (SIA/KL/MIN/449334/2023, 2426/EC4/2023/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. As per the application, the total mineable reserve is 17256 MTA. The life of mine is 2 years. There is a Girls High School at a distance of 1.26m and the nearest house is at 133.3 m from the project site. The total project cost is Rs.4.7 lakh. The depth to water table is reported as 8m bgl. **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 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.28 **Environmental Clearance for the Granite Building Stone quarry project of Sri. M.D George, M/s Ernad Associates for an area of 3.5950 Ha at Re Sy Block No.27, Re Sy Nos.37/8, 39/11-3, 39/11-2, 39/11, 43/1-2, 43/2, 42/4-5, 43/1 in Urangattiri Village, Ernad Taluk, Malappuram. (SIA/KL/MIN/53095/2020, 1668/EC6/2020/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent as sought in the 155th meeting of the SEAC and found the following.

1. The Proponent was directed to submit revised EIA report incorporating all the additional details sought. The details are submitted but without incorporating/correcting the original EIA report. Hence the additional details submitted might not become part of EIA report at a later stage. The reply submitted for queries / observations are satisfactory
2. Drainage map submitted with garland canal, connecting to silt trap and connecting to natural drainage is satisfactory
3. The CER has been revised and submitted. Though letter from the Panchayath President is attached, proof of stakeholder consultation is missing. Maintenance charges for the works proposed are not incorporated in the budget. A vehicle is proposed for the Palliative Care services but there is no clarity about the availability of driver/annual maintenance etc.

4. Recent legible survey map authenticated by the Village Officer is submitted. It is not with a dated authentication
5. Geo-tagged photographs of boundary pillars are submitted and is satisfactory
6. Details of depth to water table at 5 locations are submitted which vary from 4.9m to 5.8m below ground level. Accordingly, the depth of mining has to be limited. As such no mine void can be allowed to the mine since the water table is at 5m bgl.
7. Alternate site for compensatory afforestation along with its geotagged photographs and ownership details are submitted. As per the submitted records, the land is not owned by the Proponent. Hence consent from the owner along with an affidavit for the upkeep and maintenance of the vegetation for the life of mine has to be collected.

Based on the above evaluation, the Committee decided to direct the PP to submit the following clarifications

1. The proof of stakeholder consultation for preparing the CER proposal is missing. The Proponent submitted only a letter from the President of the Gram Panchayath.
2. Maintenance charges for the works proposed in the CER proposal are not incorporated in the budget.
3. A vehicle is proposed for the Palliative Care services but the arrangement for hiring or providing a driver for the vehicle is not mentioned.
4. The survey map signed by the Village Officer is not authenticated with a date to know whether it is recent or not.
5. Consent from the owner of the land proposed for compensatory afforestation along with an affidavit for the upkeep and maintenance of the vegetation
6. Clarification whether the proposed site falls in any landslide hazard zone or not.

PART – 2

Item No.01 **Environmental Clearance for the Residential Building Construction Project for Fisherman by Directorate of Fisheries, Govt. of Kerala at Survey No. 2610 pt, 2778/pt in Muttathara Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala. (SIA/KL/INFRA2/435776/2023, 2314/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 29-10-2023. The project was presented before the Committee in its 150th meeting. The proposal is to rehabilitate the Fisherman who lost their houses due to sea surge as committed by the Government of Kerala. This is in line with similar rehabilitation scheme for the fishermen adjacent to the current site wherein the project is developed and commissioned. As per the application, the total plot area is 3.2374 ha. (32,374.90 m^2) and total built up area is 23,733.86m^2 with 400 dwelling units. The project cost is Rs. 64.02 Crores. The maximum height of the building is 8.87 m. The nearest water body is Parvathy Puthanaar at a distance of 0.15 km. As per the field inspection report, the land, where the construction of the Housing Complex is proposed, is part of an old Sewage Farm. The total BUA proposed in the application is 23,733.86 m^2. It is found that construction is progressing in the site for a

reported plinth area of 11,863 m^2, however, there is no authentic information whether this construction is part of the proposal or not. The common STP of the Thiruvananthapuram Municipal Corporation, which is very nearby, will used for liquid waste management. The biodegradable waste to the tune of 365 TPA is proposed to be treated through biogas plant and the recyclable waste is proposed to be handed over to the authorized recyclers. It is proposed to construct two rain water harvesting tanks with storage capacity of 145 KL each at the project site. The proponent stated that the proposed project is for the rehabilitation of fisherman and parking for the project is exempted. Fisheries Department has developed similar rehabilitation scheme adjacent to the site wherein the project is developed without providing parking facilities and project is operating successfully. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents:**

1) Clarification whether the ongoing construction activity is part of the present proposal and included in the BUA proposed in the application for environmental clearance. If so, the details of the permit obtained for the construction.
2) Possibility for linking the sewage out flow from the proposed project area to the common facility of the Thiruvananthapuram Municipal Corporation located nearby. If not details of STP with Tertiary Treatment and cost estimate.
3) Details of Biobin and biogas plant, proposed for treatment of biodegradable waste.
4) Clarification regarding the implementation of Energy Conservation Building Code Rules, 2018
5) Details common parking area provided as per the requirements of KMBR provisions.

ItemNo.02 **Environmental Clearance for Commercial Complex Project to be developed by M/s Kunnamkulam Centre LLP for an area of 2.0176 ha at Re-Sy. Nos. 11/P3-1, 11/P4-4 in Choondal Village & Re-Sy 162/3, 162/3-1, 162/3-1-1 in Kanipayyur Village, Chowannur Panchayat, Kunnamkulam Taluk, Thrissur. (SIA/KL/INFRA2/445681/2023, 2446/EC3/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 27-02-2024. The total built-up area of the project is 59,748m^2 with plot area 2.0176 ha. The project consists of commercial retail shops, multiplex (1,500 seats), food court (1,200 seats), restaurant (300 seats) along with supporting infrastructure facilities. The maximum height of the building is 30 m. The highest and elevation is 117 lvl and Lowest elevation is 100 lvl. The total project cost is Rs.106 Crore. The Ground water level ranges from 6.70m to 7.10m. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

a. Demand letter from the end users of the excavated earth to the tune of 149,346 cubic meters proposed to be removed from the project site.
b. Certificate from the KSEB confirming that adequate setback distances is provided between the HT line and construction plot boundary.

c. Traffic Management Plan considering the increase in traffic due to the proposed commercial complex and the current traffic density on SH 69 (Kunnamkulam-Thrissur Highway) along with strategies for alleviating congestion in the vicinity of the project site.
d. Feasibility report and plan for implementing an emergency exit on the southern or western side of the project site
e. Consent letter from the LSG, if the emergency exit is proposed towards the south side of the building.
f. Detailed drainage plan including adequate recharge pits and soak pits, taking into consideration the carrying capacity of both natural and constructed drains based on assessment of their adequacy and the impact of discharge on low-lying areas.
g. Compensatory afforestation plan along with an upkeep and maintenance plan that includes the establishment and maintenance of greenery. If necessary, this may be done in public places such as educational institutions, government offices, or on private barren lands with necessary consent of institution.
h. Revised EMP with site specific mitigation measures incorporating all suggestions during Presentation
i. Detailed CER plan in accordance with the guidelines uploaded in the Kerala-SEIAA website
j. Plan showing location of proposed wells in the event of closure of the existing wells.
k. Plan for exclusive Rest room facilities to the security personnel

Item No.03 **Environmental Clearance for Commercial Complex Project including Hyper Market, Retail shops, Multiplex, Restaurant/food court, and amusement center by M/s Lulu International Shopping Malls Pvt. Ltd. at Survey Nos. 409/2, 408/2, 407/2, 400/7, 407/3, 407/1, 410/2, 409/1, 405/4, 403/3, 403/2, 403/6, 406/2, 406/4, 406/6, 406/5, 405/2, 406/3, 405/3, 403/4, 403/5, 412/2, 409/3, Ayyanthole Village, Thrissur Municipal Corporation, Thrissur Taluk & District, Kerala. (SIA/KL/INFRA2/452684/2023, 2477/EC3/2023/SEIAA)**

As invited, the project proponent Sri. Nishad M A, Director and CEO of M/s Lulu International Shopping Malls Pvt Ltd. and the Project Consultant Sri. PZ Thomas**,** M/s Environmental Engineers & Consultants Pvt. Ltd were present. The consultant made the presentation. As per the application, the total built-up area of the project is 39,251.48 m^2 with plot area 2.1772 ha. (21,772 m^2). The maximum height of the building is 28 m. The total project cost is Rs. 115.376 Crores. The Committee observed that the following additional documents are required for further processing of the application.

1. Current status of two court cases regarding the project/project area mentioned in the application.
2. CER proposal as per the guidelines uploaded in the website of SEIAA-Kerala
3. Site-specific EMP incorporating CER along with proof of stakeholder consultation.

4. Movement details of excavated soil outside the project area and proof of demand letter/certificate from the end-user of the ordinary earth
5. Traffic management plan based on detailed traffic study, classification of different roads in the impact zone and carrying capacity assessment of roads within the impact zone and plan for avoiding traffic congestion near the proposed site.

Based on discussion, the Committee decided to entrust the sub-committee consisting of Sri. S. Sheik Hyder Hussain and Dr.A.V.Raghu to conduct field inspection and submit report.

Item No.04 **Environmental Clearance for the Residential Project by M/s Shanoor Projects & Realtors Pvt. Ltd in the plot area of 0.7293 ha at Sy. Nos. 253/10, 253/9, 253/11, 253/12-3, 253/18-2, 253/6, 253/4, 253/16-2-1, 253/16-3, 253/16, 253/16-2, 255/2-1, 253/16-1, 255/11-1, 255/11-2, 255/11-3, 255/11-4, 255/11-6, 255/1, 253/4, 255/2-2, 255/2, in Kazhakkoottam Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala.**
(SIA/KL/INFRA2/453077/2023, 2478/EC3/2023/SEIAA)

As invited, the project proponent Mr. S. Nizar Ahammed, Managing Director M/s Shanoor Projects & Realtors Pvt. Ltd. and the Project Consultant Sri. PZ Thomas, M/s Environmental Engineers & Consultants Pvt. Ltd were present. The consultant made the presentation. As per the application, the total built-up area of the project is 28,707.89 m^2 with plot area 0.7293 ha. (7,293.13 m^2). The total project cost is Rs. 55.8552 Crore. The Committee observed that the following additional documents are required for further processing of the application.

1. Revised site-specific EMP incorporating CER as per guideline published in the website of SEIAA.
2. Detailed drainage plan.
3. Depth to water table in the nearest dug well along with the geo-tagged photographs of the well.
4. Water requirement, source of water, sustainable yield potential of source
5. Floor Area Ratio

Based on discussion, the Committee decided to entrust the sub-committee consisting of Shri. M. Dileepkumar and Dr A. Bijukumar to conduct field inspection and submit report.

Item No.05 **Environmental Clearance for the Residential Project of M/s Good Earth India Infra (P) Ltd at Sy.No 587/25-2-2, 587/25-4, 587/25-3, 587/25-3-2, 587/23, 587/24, 587/25, 587/61, 587/6 in Cheranellur Village & Panchayat, Kanayannur Taluk, Ernakulam.**
(SIA/KL/INFRA2/453455/2023, 2471/EC1/2023/SEIAA)

As invited Sri. Binu K Jose on behalf of the PP Sri. Benny M. Thankachen and the project consultant Sri. PZ Thomas, M/s Environmental Engineers & Consultants Pvt. Ltd were present and the consultant made the presentation. As per the application, the total built-up

area of the project is 25,632.6 sq.m. with 68 residential units. The plot area is 0.5034 ha. (5,034 m^2). The maximum height of the building is 59.90m. The distance from Mangalavanam Bird Sanctuary is 6.5 km. The consultant intimate the application for Wildlife Clearance was submitted to the SCNBWL. The total project cost is Rs. 55.73586 Crores. The Committee observed that the following additional documents are required for further processing of the application.

1. Revised CER proposal after stakeholder consultation and assessing the needs afresh.
2. Assess the feasibility of bottom sealed radial wells to meet the water requirement.

Based on discussion, the Committee decided to entrust the sub-committee including Sri. S. Sheik Hyder Hussain and Dr N Ajithkumar to conduct field inspection and submit report.

Item No.06 **Environment Clearance for the Granite Building Stone Quarry Project, M/s V. K. Stone Crusher for an area of 3.7324 hectares at Re. Sy. Block No. 59, Re-Survey Nos. 6/527, 6/526, 6/537, 6/600, Vellarvally Village, Iritty Taluk, Kannur, Kerala.**
(SIA/KL/MIN/286117/2022, 2067/EC4/2022/SEIAA)

As invited, the project proponent Sri. V.K. Benny and the Consultant Sri. PZ Thomas attended the hearing. The 141st meeting of the Committee recommended rejection of the proposal invoking precautionary principle. As per the direction of 127th meeting of the SEIAA, the project proponent was invited for hearing in the 151st and 157th meeting of the SEAC, but the proponent was absent. During the hearing, the consultant presented certain additional information gathered through lidar based survey and digital elevation model studies etc. The Project proponent also suggested certain mitigation measures for landslide, such as construction of earthen bunds. The PP pleaded some more time to submit the report as the study is yet to be completed. **Hence the Committee decided to give one more chance to the proponent for submitting the study report within one month.**

Item No.07 **Environmental Clearance for the Granite Building stone quarry of Sri. Pradeep Kumar S, Managing Partner, M/s RKP Minerals and Metals Private Ltd for an area of 0.4790 Ha at Block no. 30, Re Survey Nos. 233/2-3-1, 233/2-5-1, 233/2-2, 233/6, 233/6- 1, 234/5, in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram, Kerala.**
(SIA/KL/MIN/414351/2023, 2210/EC1/2023/SEIAA)

As invited, the project proponent Sri. Pradeep Kumar S, Managing Partner, M/s RKP Minerals and Metals Private Ltd. and RQP V.K. Roy were present for hearing. The Committee heard the project proponent as per the directions of the 135th SEIAA meeting and noted that the proponent has intimated that the SEAC has recommended rejection in its 151st meeting (October 16-18, 2023) based on the technical report on the minimum area required for mining granite building stones in Kerala ensuring environmental safeguards. The proposed project was for an area of 0.4790 Ha and the application was submitted on

03.02.2023. The proposal was considered in the 141st meeting of the SEAC in April 2023 and the proposal was presented before the 150th meeting SEAC in September 2023. The ADS submitted by the Proponent was verified in the 151st meeting of the SEAC in October 2023 and recommended rejection based on the report stating that mining in area less than 0.5 Ha is not environmentally feasible. The SEAC approved the said report in its 150th meeting held during September 7-8, 2023 and the SEIAA approved the report in its 134th meeting during November 13-14, 2023. During the hearing, the project proponent also mentioned that there are similar cases of less than 0.5 Ha which were reconsidered after rejection such as the case in File No. SIA/KL/MIN/165802/2020, 2191/EC2/2023/SEIAA. The Committee examined this case and noted that the proposal was recommended in the 147th meeting held during July 21-22, 2023 prior to the SEAC approving the said report. This was referred back to SEAC by SEIAA in its 135th meeting for reconsideration of feasibility of mining in such a small area. The SEAC reconsidered it in the 157th SEAC during January 16-18, 2024 recommended it with modified specific condition. Therefore, the case pointed out by the proponent is different from his proposal. **The Committee decided to direct the Proponent to submit a detailed hearing note based on which the SEAC will consider the matter further.**

Item No.08 **Environmental Clearance for Granite building stone quarry project of Sri P T Vincent, Managing Partner, M/s St. Antoney's Building Stone Quarry for an area of 0.8276 Ha at Survey No. 1102/2 in Chittanda Village, Thalappilly Taluk, Thrissur.**
(SIA/KL/MIN/421384/2023, 2469/EC3/2023/SEIAA)

As invited, the project proponent Sri P. T. Vincent and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 90775 Ton, the proposed production capacity is 30412 TPA per annum and the life of mine is 3 years. The highest elevation of the project area is 90 m AMSL and the lowest is 74 m AMSL. The site does not fall in any landslide hazard zone. The depth to water table is 8m below ground level. The mine void proposed is 10 m bgl. The total project cost is Rs.1 Crore. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Compensatory afforestation plan along with geo-tagged photographs of the proposed area, ownership details of land and species proposed
2. Plates of the Mining Plan.
3. Depth to water table below ground level in the nearest dug well along with its distance from the project boundary and geo-tagged photograph of the well .
4. Geo-tagged photographs of the site and its surrounding from all the boundary pillars and its surroundings.
5. Explanation for giving different production capacity values in the application

Item No.09 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Johnson George for an area of 5.2794 Ha, at Survey field Nos. (S F Nos) 2159, 2160, 2162 (Not Final) in Koodaranji Village, Thamarassery Taluk, Kozhikode (SIA/KL/MIN/431789/2023, 1172(A)/EC4/SEIAA/2017)**

As per the decision of the 153rd SEAC meeting, the proponent was invited for presentation in the 157th SEAC meeting held on 16th, 17th &18th January 2024, but the proponent was absent. Even after prior intimation, the project proponent was absent again for the presentation without giving any intimation. **Since the PP did not turn up for the presentation, even after prior intimation and that he has not intimated the reason for absence, the Committee decided to recommend delisting of the application at the risk of the PP.**

Item No.10 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Charls. M. P. for an area of 0.2913 Ha at Block No.24 Re-Survey no. 432 in Mulanthuruthy Village, Kanayannoor Taluk, Eranakulam (SIA/KL/MIN/434215/2023, 2480/EC1/2023/SEIAA)**

As invited the project proponent Sri. Charls. M. P**.** and RQP Sri. Korah. A.G were present. The RQP made the presentation. As per the application, the mineable reserve is 20391 MT. The life of mine is 1year. The highest is 52.2 m and the lowest elevation is 51.3 m. The total cost is project is 10 Lakhs. The medium hazard zone is 35.31 km from the proposed area. The High hazard zone is 38.95 Km from the proposed area. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Current land use details of the site.
2. Depth to water table in the nearest dug well along with its distance from the project boundary geo-tagged photograph.
3. Geo-tagged photographs of the site and its surrounding from all the boundary pillars and a video showing the entire site and its surroundings.
4. Recent Cluster Certificate.
5. Hazard zonation map indicating the distance to the proposed mining area.

Item No.11 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Thomas Joseph for an area of 0.9674 Ha at Survey No. 79/1-5-1pt in Manjalloor Village, Muvattupuzha Taluk Ernakulam. (SIA/KL/MIN/434759/2023, 2410/EC1/2023/SEIAA)**

As invited the project proponent Sri. Thomas Joseph and RQP V. K. Roy were present. The RQP made the presentation. As per the application, total mineable reserve is 70000 MT. The life of mine is 2 year. The nearest house is at 181 m. The highest elevation of the permit area is 120 m above MSL and lowest is 90 m AMSL. The total project cost is Rs.1.6 crore. **Based on discussion, the Committee decided to entrust the sub-committee consisting of Dr. R.**

Ajayakumar Varma and Dr. Mahesh Mohanan to conduct field inspection and submit report.

Item No.12 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. K. J Thomaskutty, Managing Partner, M/s. St. Martin Granites for an area of 4.5868 Ha at Re Survey Nos. 161/1, 163/4, 177/1, 177/2/1, 177/7, 177/7-1,164/1/4, 163/3, 161/1/2, 162, 159/3-1, 160/2-2, 160/2-3 in Alakkode Village, Thodupuzha Taluk, Idukki. (SIA/KL/MIN/436147/2023, 1938/EC3/2022/SEIAA)**

As invited Sri Jose Joseph on behalf of project proponent Sri. K.J Thomaskutty was present. The Consultant Vikas Thripadhi from M/s. Parivesh Environmental Engineering Services made the presentation. As per the application, the total mineable reserve is 2431846 MT with an annual production of 202653.8 MTA. The life of mine is 12 years. Nearest habitation is at 94.6 m towards South southeast side. The highest elevation of the permit area is 195 m AMSL and lowest is 140 m AMSL. The total project cost is Rs.470.07 lakh. The area falls under the medium hazard zone and the distance from High Hazard Zone is 2.20km. The public hearing was conducted on 03.05.2023. **Based on discussions, the Committee decided to entrust the sub-committee consisting of Dr. R. Ajayakumar Varma and Dr. Mahesh Mohanan to conduct field inspection and submit report. The Committee decided to direct the project proponent to submit the following additional documents.**

1. CCR from the IRO Bangalore, of the adjacent quarry owned by the Project Proponent.
2. NOC from District Level Crisis Management Committee for mining as the site is located in the medium-hazard zone.
3. Revised CER with specific activities and the stakeholder consultation details as per guidelines published in the SEIAA website.
4. As per ToR 7, the proponent Company has to have a well laid down Environment Policy approved by its Board of Directors. It is also necessary to describe the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions etc. The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions is also to be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, is also required to be detailed in the EIA Report. However, this is not found included in the EIA report
5. As per ToR 8, It is necessary to list and provide the details of the proposed safeguard measures, which is not found provided.
6. As per ToR 9, it is stipulated that the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period which is not found complied especially with respect to solid and liquid waste other than mine waste.
7. As per ToR 15, the vegetation in the RF / PF areas in the study area, with necessary details, is required, but the same is not found listed accordingly and assessed the implications

8. As per ToR 22, site-specific meteorological data should be collected. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given. The Proponent should be directed to clarify the compliance in detail.
9. As per ToR 23, air quality modelling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modelling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. This is not found complied.
10. As per ToR 24, the water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. This is not found adequate and therefore, need reworking.
11. As per ToR 26, description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should also be provided. This is not found complied adequately.
12. As per ToR 27, the impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided. This is not found complied with specific details.
13. The additional study on slope stability is not found conclusive and the factor of safety is not determined.
14. The additional study on breach potential is not found done based on site specific data.

Item No.13 **Environmental Clearance for the Mining of Ordinary Clay by Sri. Haneefa. M.H from an area of 0.2023 Ha. at Re Survey No. 4/3 at Kollengode-2 Village of Chittur Taluk, Palakkad. (SIA/KL/MIN/439070/2023, 2441/EC3/2023/SEIAA)**

As invited the project proponent Sri. Haneefa. M.H and RQP Dr. Nazar Ahammed were present. The RQP made the presentation. the total mineable reserve is 8092 MT with annual production of 4046 MT. The life of mine is 2 years. The elevation of the proposed area is 114 m above MSL. The total project cost is Rs.20 lakh. The depth to water table is 7 m bgl at 115m. The distance to the high hazard zone is 1.67 km and to the medium hazard zone is 1.42km. The depth of mining is 2m. Nearest habitation at 53.6 m. **Based on discussions, the Committee decided to recommend EC for mine life of 2 year subject to the following Specific Conditions in addition to the General Conditions:**

1. The project area shall be restored for productive cultivation as per the affidavit submitted by the PP.
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 pm)

<u>Item No.14</u> **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Musthafa P.T.V for an area of 0.9900 Hectares at Block No- 01, ReSurvey Nos. 347/5, 347/5-5 & 347/5-15 in Thachanattukkara-I Village, Mannarkkad Taluk, Palakkad. (SIA/KL/MIN/439323/2023, 2443/EC3/SEIAA/2023)**

As invited, Sri. Sivadas on behalf of the project proponent Sri. Musthafa P.T.V, with authorization was present. The RQP V.K. Roy made the presentation. As per the application, the total mineable reserve is 207140 MT and the life of mine is 3 years. The highest elevation is 160 m above MSL and the lowest is 120 m above MSL. The high hazard zone is at 10.2 km and the medium hazard zone is at 1.71 km. The Silent Valley National Park is at a distance of 7.6 km (as mentioned in the PFR). The project cost is Rs.1.38 crore. The medium hazard zone is 1.72 km from the proposed area. The High hazard zone is 10.21Km from the proposed area. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Alternate site for compensatory afforestation with geotagged photographs, species proposed for planting and ownership details of the land along with the consent of the land owner if the land belongs another person. The proposed site for compensatory afforestation is vegetated.

2. Revised CER proposal with proof of stakeholder consultation as per the guidelines published on the SEIAA website.
3. Letter from the Wildlife Warden regarding the distance to the Silent Valley National Park as the PFR states that the distance to the Silent Valley National Park is at a distance of 7.6 km.
4. Proof of application submitted for wild life clearance from NBWL
5. As evident from the google imagery two more functional quarries are seen on the north east side of the quarry. But the cluster certificate does not indicate the same. Clarification for the same is to be submitted
6. The building seen within 50 m is informed as site office which needs clarification and affidavit.
7. Revalidated baseline monitoring data with one season non monsoon data.
8. Geotagged photographs of the project area and its surroundings from all the boundary pillars and the video showing the entire area
9. Depth to water table measured in the nearest open well to the site with geotagged photographs, distance from the project site and elevation above the MSL.

Item No.15 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mohammed Shereef for an area of 0.7227 Ha is in Survey No. 272/1-5 of Alipparamba Village, Perinthalmanna Taluk, Malappuram.**
(SIA/KL/MIN/441164/2023, 2467/EC1/2023/SEIAA)

As invited the project proponent Sri. Mohammed Shereef and RQP Sri.V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 1,28,425 MT. The life of mine is 3 years. The highest elevation of the permit area is 120 m AMSL and the lowest is 100 m AMSL. The high hazard zone is at 14.11km and the medium hazard zone is at 3.51 km. The nearest house is at 203 m. The depth to water table is 6.8m bgl. Mine void proposed is 10m. **Based on discussions the Committee decided to direct the project proponent to submit the following additional document.**

1. Revised CER as per the presentation made
2. Revised budget of EMP incorporating all the environmental management measures suggested in the EMP.

Item No.16 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Sadiq Ali, for an area of 0.0940 Ha. at Block No. 137 in Survey No: 42/101 of Chuzhali Village, Thaliparamba Taluk, Kannur.**
(SIA/KL/MIN/442637/2023, 2383/EC4/2023/SEIAA)

Even after prior intimation, the project proponent was absent for the presentation in the 157th SEAC meeting held on 16th, 17th & 18th January, 2024. Now also the project proponent was absent and intimated the withdrawal of the application vide his e-mail dated 13/03/2024. **Therefore, the Committee decided to recommend to allow the Proponent to withdraw the application.**

Item No.17 **Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Binu Vargheese, for an area of 0.0972 Ha at Block No:46, Re-Survey No: 14/175(14/1A) in Pariyaram Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/443540/2023, 2461/EC4/2023/SEIAA)**

As invited the project proponent Sri. Binu Vargheese and RQP V.K. Roy were present. The RQP made the presentation. The total mineable reserve is 12,150MT. The life of mine is 1 year. The depth to water table is 7 m below ground level. The project cost is Rs. 3.43 lakh. The distance to the high hazard zone is 8.2km and to the medium hazard zone is 4.3 km. The depth of mining is 5.5m. **Based on discussions, 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 pm)

Item No.18 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ashique Ali for an area of 2.4147 Ha at Block no: 22, Resurvey no 307/3,308/12,308/13,308/15,308/26, in Malayattoor Village, Aluva Taluk, Ernakulam (FIR Received)**
(SIA/KL/MIN/444903/2023, 2449/EC1/2023/SEIAA)

The Committee examined the proposal and discussed the field inspection report conducted on 24-02-2024. As per the application, the total mineable reserve is 590383 MT with an annual production of 118076.50 MT. The life of mine is 5 years. The highest elevation is 177m MSL and lowest is 110m MSL. The project cost is 250 lakhs. The depth to water table is 10m bgl. The maximum number of benches is 10. 30% of the area falls under the moderate hazard zone and the distance to the high hazard zone is 6.22 km. Distance to nearest house is 250m. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

1. Certified Compliance Report from MoEF of the previous quarry owned by the proponent which was in operation in the project area (EC No.88/2016 issued on 1-6-2016 by SEIAA Kerala)
2. Approval of the District Level Crisis Management Committee for mining as the project area falls partially in the moderate landslide hazard zone.
3. Baseline monitoring data to be revalidated with one season non-monsoon data
4. Certified survey map with all the built structures within 200m radius
5. Boundary Demarcation certificate from the V O
6. Certificate regarding the distance from the notified forest
7. Location of OB dump site with geo-tagged photographs
8. Compensatory afforestation site proposed by the proponent with geo-tagged photographs, consent of owner with an affidavit for the upkeep and maintenance of the seedlings to be planted
9. Drainage plan with connectivity to the natural drain
10. Depth to water table measured in the nearest open well to the site with geotagged photographs, elevation of the site above MSL and distance from the project boundary
11. Revised CER with details of the beneficiary for the house constructed. Include details to prove that the beneficiary belongs to BPL family and was recommended by the grama panchayat.
12. Revised EMP incorporating site specific impact mitigation measures, CER and energy management measures.

Item No.19 **Environmental Clearance for Granite Building stone quarry of Sri. Vinodlal. N, M/s Daiwik Industries Pvt. Ltd. at Re-Sy. Nos. 346/1-2, 347/2- 4, 346/3, 346/1-1, 346/1-3, 347/5, 347/4, 346/4, 346/1-9, 347/2-3, 346/1-5, 346/1- 4, 346/1-7, 346/1-8, 354/1-5-1, 354/1-5, 354/1-16, 355/7, 345/4, 345/6, 345/3-1, 354/1-3, 354/1-7, 347/1, 347/2-1, 347/2, 355/6, 345/3, 354/1-7-1, 346/2-1, 347/3- 2 at Block No. 48, Aryanad Village & Panchayat, Nedumangad Taluk, 152 Thiruvananthapuram District, Kerala for a Mine Lease (ML) area of 5.4586 ha. (SIA/KL/MIN/444972/2023, 2407/EC3/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report. As per the application, the total mineable reserve is 2195430 MT. The life of mine is 12 years. The highest elevation of the permit area is 170 m AMSL and lowest is 105 m AMSL. The ultimate depth of mining is 90m above MSL. The depth to water table reported is 82m above MSL. The total project cost is Rs.9.36 crores. The public hearing was conducted on 01.07.2023. The nearest habitation is about 203m. The Committee observed that the Peppara Wildlife Sanctuary is at 6.3 km and Neyyar Wildlife Sanctuary is at 9.6 km. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

a) Proof of application submitted to the NBWL for Wildlife Clearances for Neyyar and Peppara WL Sanctuaries.
b) Compensatory afforestation plan along with geotagged photographs of the site proposed, ownership details of the land and species proposed to be planted along with the consent of the land owner if the land belongs another person.
c) Revised CER as per the guidelines uploaded in the SEIAA website with specific location of implementation, beneficiary details and proof of stakeholder consultation.
d) Comprehensive storm water drainage Plan showing garland drains, silt traps, holding ponds and outflow channels considering the site elevation and location of nearby water bodies and its connectivity to natural drain.
e) Plan for protecting the available 1st order stream flowing in the east direction of the proposed ML area.
f) Plan for side protection made for the OB dump, considering its quantity, location and terrain specialty.
g) Depth to water table measured in the nearest dug well along with geotagged photograph of the well, distance to the well from the project boundary and relative relief of the well site.

Item No.20 **Environmental Clearance for the mining of Ordinary Earth by Sri. Varghese. M. P for an area of 0.8120 Ha at Survey Nos. 194/11, 194/12 in Aikaranadu south Village, Kunnathunad Taluk, Ernakulam (FIR Received) (SIA/KL/MIN/446468/2023, 2454/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report. As per the application, the total mineable reserve is 64960 MT with annual production of 32480 MT. The life of mine is 2 years. The highest elevation is 84m above MSL and lowest is 68m MSL. In Form IM, it is mentioned that a temple is situated at 0.469m. The project cost is Rs. 25 lakhs. Depth to water table is 8m bgl. Distance to (Thattekad Bird sanctuary is 31.66km. Distance to other nearest built structure is 30m and 45m. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

1. Clarification regarding the actual distance to the temple mentioned in Form 1M.
2. Plan for maintaining a buffer distance of atleast 50m to the nearest built structure located at 30 & 40m from the project boundary.
3. Depth to water table of the nearest well with geo-tagged photographs of the well and distance to the well from the project boundary
4. Drainage plan with connectivity to local seasonal drain
5. Demand letter from the end users of the ordinary earth proposed to be mined

Item No.21 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Majeed Kuruniyan for an area of 0.1942 Ha at Re-Survey No: 326/2-16, 326/2-17 in Ponmala Village, Tirur Taluk, Malappuram (SIA/KL/MIN/450384/2023, 2430/EC1/2023/SEIAA)**

As invited the project proponent Sri. Majeed Kuruniyan and RQP V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 16,993 MT and the life of mine is 1 year. The nearest house is at 60m. The project cost is Rs.6.60 lakh. The depth to water table at 8m bgl at 90m AMSL. The medium hazard zone is at 7.30km from the proposed area. Average thickness of laterite to be mined is 5m. **Based on discussions, 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 pm)

Item No.22 **Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Rintu Sebastian, for an area of 0.1752 Ha. at Block No:39, Re-survey No. 57/110 in Peringome Village, Payyannur Taluk, Kannur (SIA/KL/MIN/452107/2023, 2462/EC4/2023/SEIAA)**

As invited, Sri. Sebastian George on behalf of the PP Sri. Rintu Sebastian was present. The RQP V.K. Roy made the presentation. As per the application, the total mineable reserve is 16,864 MT with an annual production of 8,432MT. The life of mine is 2 years. The depth to water table is 9m below ground level. The project cost is Rs. 5.64 lakhs. The medium hazard zone is at 1.5km from the proposed area. The high hazard zone is at 5.9km from the proposed area. **The Committee observed that there is a proposal for EC for mining in the immediately adjacent land owned by the same Project proponent. Therefore, the Project proponent may submit a combined EMP considering the cumulative impact. It is understood that a shed within 5m from the proposed site which was not disclosed in any of the documents in the application or in the presentation, clarification for the same is to be submitted.**

Item No.23 **Environmental Clearance for the Laterite (Building Stone) Quarry of Smt. Reshma K, for an area of 0.2913 Ha, at Block No: 211, Re-Survey No: 19/109 in Padiyoor Village, Iritty Taluk, Kannur (SIA/KL/MIN/452252/2023, 2463/EC4/2023/SEIAA)**

As invited on behalf of the project proponent Smt. Reshma K**,** Sri. Nishaj KK was present**.** The RQP V.K. Roy made the presentation. As per the application, the total mineable reserve is 28,037 MT with an annual production of 14014 MT. The life of mine is 2 years. The depth to water table is 7 m below ground level at 173m AMSL. There are no houses within 50m

radius. The project cost is Rs.9.99 lakhs. The high hazard zone is at 5.8 km from the proposed area. The project site falls in the medium hazard zone. Hence the committee decided to direct the proponent to submit approval of the District Level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014. **Based on discussions, the Committee decided to entrust the sub-committee including Dr. A.N. Manoharan and Sri. V. Gopinathan to conduct field inspection and submit report.**

Item No.24 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Subin Thomas, for an area of 0.0972 Ha. at Block No: 070, Re-Survey No:49/997 in Nidiyenga Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/452277/2023, 2464/EC4/2023/SEIAA)**

As invited the project proponent Sri. Subin Thomas and RQP V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 9,356 MT. The life of mine is 1 year. The depth to water table is 7m below ground level and depth of mining proposed is 5.5m bgl. The medium hazard zone is at 2.10 km. The project cost is Rs. 3.69 lakh. The medium hazard zone is at 2.15km from the proposed area. **Based on discussions, 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 pm).

Item No.25 **Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Khalid N., for an area of 0.1902 Ha. at Block No.23, Re-Survey No:21/154 in Kolari Village, Iritty Taluk, Kannur. (SIA/KL/MIN/453343/2023, 2465/EC4/2023/SEIAA)**

As invited the project proponent Sri. Khalid N and RQP V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 18,306 MT with an annual production of 9,153 MT. The life of mine is 2 years. The depth to water table is 7 m below ground level. The project cost is Rs. 6,01,500/-. The depth to water table is 7m below ground level and hence the depth to mining will have to be limited to 5m. The distance to the nearest built structure is 171.5m. **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 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 adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

Item No.26 **Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Suresh P V., for an area of 0.0972 Ha. at Block No: 84, Re-Survey No. 1/15250 in Payyavoor Village, Thaliparamba Taluk, Kannur (SIA/KL/MIN/453540/2023, 2466/EC4/2023/SEIAA)**

As invited the project proponent Sri. Suresh P V and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 9,356 MT per annum. The life of mine is 1 year. The depth to water table is 8 m below ground level at 228 m AMSL. The project cost is Rs. 3,20,400/-. The high hazard zone is at 1.1km from the proposed area. The medium hazard zone is at 678.4m. from the proposed area. **The committee examined the documents submitted by the proponent and decided to direct the PP to resubmit the site photographs and video so as to have a synoptic view of the project area and surroundings.**

Item No.27 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Bijesh K. P., for an area of 0.1942 Ha. at Block No: 91, Re-Survey No: 46/559 in Kalliad Village, Iritty Taluk, Kannur (SIA/KL/MIN/453581/2023, 2486/EC4/2024/SEIAA)**

As invited the project proponent Sri. Bijesh K. P and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 18,692 MT with an annual production of 9,346 MT. The life of mine is 2 years. The depth to water table is 7 m below ground level. The depth of mining shall be limited to 5m below ground level. The medium hazard zone is at 850.4m from the proposed area. The high hazard zone is at 8.1 km from the proposed area. The project cost is Rs. 5,14,400/-. **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 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 adjoining field having a width equal to at least half the depth of the proposed excavation.

11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

Item No.28 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Siyad C V., for an area of 0.1942 Ha at Block No: 91, Re-Survey No: 46/923 in Kalliad Village, Iritty Taluk, Kannur. (SIA/KL/MIN/453670/2023, 2487/EC4/2024/SEIAA)**

As invited the project proponent Sri. Siyad C V and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 18,692 MT with an annual production of 9,346 MT per annum. The life of mine is 2 years. The depth to water table is 7 m below ground level at 115m AMSL. The project cost is Rs. 5,14,400/-. The medium hazard zone is at 672.2m from the proposed area. The high-hazard zone is 7.9 km from the proposed area. **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 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.29 **Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Viju K. for an area of 0.0971 Ha. at Block No: 91, Re-Survey No: 46/1241, 46/4-1241-2 in Kalliad Village, Iritty Taluk, Kannur (SIA/KL/MIN/453708/2023, 2488/EC4/2024/SEIAA)**

As invited the project proponent Sri. Viju K and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 9,346 MT per annum. The life of mine is 1 year. The depth to water table is 7 m below ground level. The project cost is Rs. 3,20,200/-. The medium hazard zone is at 750.6m from the proposed area. The high-hazard zone is 7.9 km from the proposed area. **Based on discussions, 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 pm).

Item No.30 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Vinodan K., for an area of 0.8441 Ha. at Block No:197, Re-Survey Nos:73/221, 73/222, 73/223, 73/224, 73/225, 73/226 in Pattiyam Village, Thalassery Taluk, Kannur. (SIA/KL/MIN/453804/2023, 2489/EC4/2024/SEIAA)**

As invited, Sri. Sabin Raj on behalf of the PP Sri. Vinodan K and the RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 76,322 MT and the life of mine is 3 years. The cost of the project is Rs. 35,12,400/-. The depth to water table is 10m bgl at 130m AMSL. The distance to the nearest built structure is 91.9m. The medium hazard zone is 108.3m from the proposed area. The high-hazard zone is 6.2 km from the proposed area. The Committee noted the requirement of the following additional documents for further appraisal of the proposal.

1. Revised CER as per the guideline published on the SEIAA website
2. Detailed drainage plan.
3. Biodiversity Assessment Report.
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 along with geo-tagged photographs of the proposed area, ownership details of land and species proposed.
7. Geo-tagged photographs of the site and its surroundings from all the boundary pillars and a video showing the site and its surroundings.

Based on discussion, the Committee decided to entrust the Sub-committee consisting of Sri. V. Gopinathan and Dr. A.N. Manoharan for field inspection and report.

Item No.31 **Environmental Clearance for the granite building stone quarry project Sri.Muhammed, Managing Director, M/s Vettakode Granite Pvt. Ltd for an area of 3.3624 Ha at Sy.No.247/1,247/2-1, 274/3, 275/2 in Anakkayam Village, Ernad Taluk, Malappuram (Evaluation Report Received) (SIA/KL/MIN/66304/2019, 1514/EC3/2019/SEIAA)**

The Committee examined and discussed the revised EIA report submitted by the project proponent as sought in the 151st SEAC meeting and the evaluation report. The Proponent was asked 13 ADS and a revised EIA report, but the Proponent submitted only revised EIA report in which some of the ADS sought are incorporated. **The Committee discussed the salient**

aspects of the project and findings in detail and decided to direct the PP to submit the following additional documents:

1. Detailed drainage plan incorporating garland drain, outflow channel, connectivity to natural drain and adequate silt traps and settling ponds along with map depicting the above.
2. Proposed location and protection plan for the safe storage of the top soil and overburden.
3. Details and plan for the upgradation of haulage road with protection measures is provided in detail
4. Conclusion derived on the traffic management plan based on traffic survey covering primary, secondary and tertiary roads and traffic management plan proposed for operationalizing the proposed mining operation.
5. Detailed plan for rainwater harvesting during the pre-mining and post-mining phases
6. Detailed plan for sanitation and waste management arrangements in the site, particularly for the workers .
7. Detailed plan for Energy Conservation Measures in the site and process
8. Air quality monitoring and noise level monitoring data of anomalous areas of the impact zone such as near quarries, high traffic locations etc. as these sites are not monitored during the EIA study.
9. List of activities involved in the project, list of environmental aspects significant to the impact zone and details of impact identified/predicted by evaluating impacts of each activity on various environmental aspects.
10. Revised EIA report incorporating the details as required in the approved ToR by addressing the ToR 5 in detail, mine safety aspects of the ToR 8, details on the water source, safe yield, sustainability aspects and water balance of ToR 24, details of water conservation measures of ToR 26, water quality impact based on the water quality monitored of T0R 27 and post-mining land use plan of ToR 34
11. Detailed mitigation measures for the concerns raised in the Public Consultation in compliance to ToR 36.

PART – 3

Item No.01 **Environmental Clearance for Building Stone Quarry project of Sri. Sreejith S.S., Managing Partner of M/s VSC Villaments at Block No.47, Re-Survey 319/7, 318/13, 322/5, 320/1-1, 320/4-2, 320/1-3, 320/1-4, 320/1-6 in Aryanad Village, Nedumangad Taluk, Thiruvananthapuram, Kerala for an area of 2.700 hectares. (SIA/KL/MIN/426206/2023, 2261/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report. As per the application, the total mineable reserve is 12,81,015 MT with an average annual production of 1,28,100 TPA. The total project cost is Rs. 647 Lakh. The life of the mine as per mining plan is 10 years. The highest elevation is 125 AMSL and the lowest elevation is 95 AMSL. The depth of water column is 20 m below ground level. The nearest house is at a distance of 61

m. The medium hazard zone is at 6km from the proposed area. The high-hazard zone is 10 km from the proposed area. The Peppara Wild Life Sanctuary is at 4.75 km and Neyyar Wild Life Sanctuary is at 3.75 km from the project area. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Revised CER proposal as per the guidelines published on the SEIAA website.
2. Specific boulder management plan showing quantity of stone to be removed and mode of breaking of boulders without affecting nearby habitations and main road traffic, as there are about 101 boulders present at the project site with heights ranging from 1-4.5 m.
3. Scientific transportation plan for removal of open boulders and product at the time of operation of the quarry showing number of trucks, timing of transportation and proposed location of loading area to the truck etc.
4. Map showing proposed top soil and overburden storage area with details of proposed retaining wall/side protection.
5. A plan for developing access road and exit road without affecting traffic on the main road (SH 45-Nudumangad –Kadukkara- Shorlacode Road) situated at 200 m.
6. Compensatory Afforestation Plan with geo-tagged photographs of the proposed site, ownership details of the land proposed for afforestation and species proposed to be planted.
7. Details of measures suggested for controlling noise, dust, and vibrations to the nearby house situated at 61 m.

Item No.02 **Environmental Clearance for the Laterite Building Stone Quarry of Sri.Mohammed Faizal for an area of 0.1942 Ha at Block No. 01, Re-Survey No: 210/1A-643 in Irimbiliyam Village, Tirur Taluk, Malappuram.**
(SIA/KL/MIN/433026/2023, 2375/EC1/2023/SEIAA)

The Committee verified the additional documents submitted by the project proponent and found that another 3 applications from the same area are under consideration, **hence the Committee decided to entrust a sub-committee consisting Dr. C.C. Harilal and Sri. S. Sheik Hyder Hussain for field inspection and report along with the other three quarry nearby.**

Item No.03 **Environmental Clearance for the Laterite Building Stone Quarry of Sri.Hussain for an area of 0.1862 Ha at Block No. 01, Re-Survey No: 210/1A-643 in Irimbiliyam Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/433198/2023, 2389/EC1/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found that another 3 applications from the same area are under consideration, **hence the Committee decided to entrust a sub-committee consisting Dr. C.C. Harilal and Sri. S. Sheik Hyder Hussain for field inspection and report along with the other three quarry nearby.**

Item No.04 **Environmental Clearance for the Laterite Building Stone Quarry of Sri.Jabir for an area of 0.6880 Ha at Block No. 01, Re-Survey No: 210/1A-649 in Irimbiliyam Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/433361/2023, 2390/EC1/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found that another 3 applications from the same area are under consideration, **hence the Committee decided to entrust a sub-committee consisting Dr. C.C. Harilal and Sri. S. Sheik Hyder Hussain for field inspection and report along with the other three quarry nearby.**

Item No.05 **Environmental Clearance for the Laterite Building Stone Quarry of Sri. Jabir for an area of 0.1942 Ha at Block No. 01, Re-Survey No: 210/1A-643 in Irimbiliyam Village, Tirur Taluk, Malappuram. (SIA/KL/MIN/433449/2023, 2391/EC1/2023/SEIAA)**

The Committee verified the additional documents submitted by the project proponent and found that another 3 applications from the same area are under consideration, **hence the Committee decided to entrust a sub-committee consisting Dr. C.C. Harilal and Sri. S. Sheik Hyder Hussain for field inspection and report along with the other three quarry nearby.**

Item No.06 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Abdul Hameed K P for an area of 1.4784 Ha. at Block No.227, Sy.Nos.55/1, 55/4, 50/1, 50/1-2, 50/1-3 in Urangattiri Village, Ernad Taluk, Malappuram.**
(SIA/KL/MIN/417557/2023, 2227/EC6/2023/SEIAA)

The Committee examined and discussed the revised EIA report submitted by the project proponent as sought in the 141st SEAC meeting. As per the application, the total mineable reserve is 405958 MT and annual production is 40595 TPA. The mine life is 10 years. The highest elevation of the lease area is 205m above MSL and the lowest is 160 m above MSL. The project cost is 1.5 crores. **The Committee discussed the salient aspects of the project and decided to direct the Proponent to submit the following additional documents:**

1. Revised EMP in accordance with site-specific mitigation measures and incorporating cost required for implementing the mitigation measures in compliance to ToR 38.
2. Revised drainage plan with proposed connectivity of overland flow to the natural drain and plan for the protection of OB dump.
3. Proposal for the protection of the abandoned quarry pit, which shares a boundary with the project site.
4. Compensatory afforestation plan along with geo-tagged photograph of the site, ownership details of the proposed site for afforestation and species proposed to be plan as about 700 trees are said to be planted in the project site.

5. Consent for drawing water from a source located at a distance of 200 meters from the project site.
6. Depth to water table in the nearest dug well along with distances to the monitoring well, geo-tagged photograph of the well and distance to it from the project boundary.
7. A time schedule for quarry operations and materials movement, considering other operational quarries in the cluster
8. Details pertaining to the source of water (other than quarry pit) including safe yield in compliance to ToR 24
9. Necessary clearance from the Competent Authority for drawl of the requisite quantity of water for the Project in compliance to ToR 25
10. Details of water harvesting/conservation at the project site considering the rainfall and other site characteristics.
11. Clarification whether the proposed mining will intersect the ground water table and if so, plan for preventing ground water intersection
12. Plan for implementing mitigation measures for addressing the concerns raised during the public consultation in compliance to ToR 39.
13. Revised cost estimate for the EMP and CER

Item No.07 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Alex P Cyriac, M/s. Perumalil Infrastructure Private Limited for an area of 3.1360 Ha at Re-Sy Nos. 772/1Apt, 772/2Apt, 772/2B, 772/3, 772/4Apt, 772/4B pt, 772/5pt & 773/7pt in Koothattukulam Village, Muvattupuzha Taluk, Ernakulam (FIR Received) (SIA/KL/MIN/436077/2023, 2400/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report. As per the application, the total mineable reserve is 655324.73 MT with an average annual production of 131064.8 TPA. The total project cost is Rs.585.3 lakh. The minimum and maximum elevation prior to mining is 130-142 AMSL. The depth to water table is 5m bgl and therefore, mining has to be limited to 125m above MSL. The nearest built structure is a distance of 103m. The moderate hazard zone is 7.3 km from the proposed area. The high-hazard zone is 11.2 km from the proposed area. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Feasibility report for transportation of the mined material as the haulage road is very narrow.
2. CCR for the mined-out quarry within the proposed site which was mined with EC issued vide No. 27/2017 in File No. DIA/KL/MIN/6446/2017.
3. Revised budget estimate of EMP for non-recurring and recurring expenditures and also incorporating the CER proposal.
4. Modified site-specific EMP incorporating CER and plan for the utilization of the harvested water.
5. Modified drainage plan consisting of an adequate number of siltation ponds and siltation traps with connectivity to natural drain.

6. Geotagged photographs of properly marked boundary pillars.
7. Alternative site for compensatory afforestation plan along with geotagged photographs of the site, ownership details of the proposed site and species proposed to be planted as the site proposed for compensatory afforestation is partially vegetated.
8. Clarification regarding the depth to water table in the nearest dug well given in the EMP report and that uploaded in the application
9. Plan for greenbelt development, energy conservation measures and sanitation waste management facility.

Item No.08 **Environmental Clearance for Granite Building Stone Quarry of Sri.Baiju K. Thomas, Managing Director, Collins Builders and Developers Pvt.Ltd. for an area of 1.6279 Ha at survey no 813/1pt, 813/1pt,813/1pt, 813/2pt in Koothattukulam Village, Muvattupuzha Taluk, Ernakulam (FIR Received) (SIA/KL/MIN/444650/2023, 2406/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 13.01.2024. As per the application, the total mineable reserve is 610460 MT with an average annual production of 122092 TPA. The life of mine is 5 years. The highest elevation of the permit area is 112 m AMSL and the lowest is 88 m AMSL. The nearest house is at 88 m. The distance to the high hazard zone is 31.09 km. The depth to water table is 3m bgl. The total project cost is Rs.2 Crore. **Based on discussions, the Committee decided to invite the PP for presentation. The presentation shall include details of the following shortcomings and additional documents required.**

1. Explanation from Consultant and Proponent for concealing the information about a major quarry within 500m radius. It is observed that there is a Koorumala quarry at 164m from the boundary of the proposed project and another quarry at a distance of 320m. The Koorumala quarry seems to be very large and seems to be operational. However, the Cluster Certificate states that there is no quarry within 500m.
2. Explanation from the Proponent for not applying for ToR as there seems to be more than 5 Ha mining area within the cluster in which the proposed site is situated.
3. Explanation from the Proponent/RQP for misleading the Committee by uploading the details of the proposal of the Mrs. Bissy Kunjappan of Kodanad as the CER plan.
4. Modified CER along with proof of stakeholder consultation as per guideline published in the SEIAA website
5. Site-specific EMP with modified budget, modified Project cost and CER.
6. Modified drainage plan with adequate settling traps and ponds.

Item No.09 **Environmental Clearance for the Granite Building Stone Quarry project of Sri. Jismon A. B., for an area of 0.9980 Ha. at Re-Survey Nos. 27, 28 & 28/1 in Erumeli South Village, Kanjirappally Taluk, Kottayam**
(SIA/KL/MIN/413982/2023, 2212/EC3/2023/SEIAA)

The Committee examined the proposal and discussed the field inspection report. The total mineable reserve is 3,56,697.5 MT with an average annual production of 89174 TPA. The mine life proposed is 4 years. The project cost is 143Lakhs. The highest elevation of the permit area is 175m above MSL and the lowest elevation is 130m above MSL. The Depth to water table is 10m bgl. The distance to other nearest built structure is 204.2m. The distance to high hazard zone is 6.78 km and to the moderate hazard zone is 5.17 km. **Based on discussions the Committee decided to direct the project proponent to submit the following additional documents.**

1. Clarification for not submitting application for ToR for EIA study as there is cluster condition. The environmental plan submitted by the Proponent indicates that a Delta quarry is at a distance of 450m and the Cluster Certificate as per the report of the Village Officer stated that there is no quarry within 500m.
2. Explanation from the Consultant/Proponent for providing misleading information on the land use data given in the application and PFR.
3. Compensatory afforestation plan along with a geotagged photograph of the proposed site, species proposed to be planted, and ownership details of the land as it is proposed to remove 438 trees from the proposed project site.
4. Proof for application submitted to the NBWL for wildlife clearance
5. Revised CER with proof of stakeholder consultation as per the guideline published on the SEIAA website
6. Location of OB Dump plan and its protection measures
7. Plan for setting up of silt traps and a minimum no of 3 settling ponds in a sloppy terrain with space constraints between the project boundary and seasonal stream
8. Plan for leaving a buffer distance to avoid mining in the steep slope area
9. Plan for energy conservation measures
10. Traffic plan during the Sabarimala pilgrimage season as the quarry proposes to use the Erumeli – Mundakkayam road which is also used as pathway of pilgrims especially due to the fact that road is narrow.

Part-4

Item No.01 **Environmental Clearance for the expansion of existing Residential Building Construction Project-Condor Cyber Gardens by M/s Condor Builders Pvt. Ltd. at Sy. Nos. 157/20, 172/4 & others in Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram. (SIA/KL/INFRA2/443950/2023, 2420/EC3/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 18-02-2024. The existing built-up area is 87,245.55 m^2 in a plot area of 2.297 Ha with 522 dwelling units. The proposed expansion in built up area is 32,190.23 m^2 for 163 dwelling units in an additional land area of 0.45409 Ha. Thereby, the total built up area will be 1,19,435.78 m^2 for 685 dwelling units and plot area will be 2.75109 Ha. The proposed Project cost is Rs. 263.8 Crores. The height of the structure is 58.35 m. **Based on discussion, the Committee decided to direct the Proponent to submit the following additional documents.**

1. Copy of the original EC obtained from MoEF & CC dated 13.7.2011
2. Details regarding the validity of the EC applicable for extension/expansion
3. Certified Compliance Report from the Regional Office of the MoEF & CC
4. Details of the proposal for Rainwater Harvesting in Block 3 and 4 including location, dimension and management plan.
5. Details of proposed green belt, Compensatory Afforestation Plan and avenue trees
6. Details of proposed CER for providing a Kitchen and Smart Classroom in Govt LP School, Pound Kadavu, Thiruvananthapuram, and Cleaning and maintenance of nearby waterbody Thettiyar. CER proposal should be with specific monitorable targets and as per the guidelines uploaded in the SEIAA website.
7. Revised EMP considering the cost required for various mitigation measures and incorporating cost of CER proposal.
8. Process flow Diagram/ details of new STP of 120 KLD and details of integrating it with existing 330 KLD STP as proposed and indicate it in the EMP in order to ensure efficient treatment and for ensuring reuse / recycle potential, considering that the facility will be handed over to the residents for operation with less technically skilled operators.
9. Details of solid waste treatment for 900 kg /day indicated as cumulative generation in 4 Blocks.
10. Explore the possibility of providing solar lighting system for common areasm indoor and outdoor.
11. Details of the proposed solar power generation installation as per guidelines

Item No.02 **Environmental Clearance for the Proposed Construction of Court Complex at Re-Sy. No. 16, Re-Sy. Block No. 117 in Palakkad-III Village, Palakkad Municipality, Palakkad Taluk & District, Kerala (KIIFB Assistance Project)**
(SIA/KL/INFRA2/456841/2023; 2485/EC3/2023/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 1.1938 ha (11,938m^2). The Proposed Project cost is Rs 6833 lakh. No structure/building is existing within the site. the total cumulative built-up area is 20,623m^2 (Main Court building: 19,495m^2 + Parking structures & Canteen: 1128m^2). The height of the Structure is 18.15m. The site is relatively flat with elevation varying from 99.28m to 100.71m. **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. The stipulated FAR should be complied with.
2. 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.
3. Water efficient plumbing features for saving water use should be adopted as per the plan submitted.
4. 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.
5. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
6. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
7. Climate-responsive design as per Green Building Guidelines in practice should be adopted
8. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted
9. Vegetation should be developed appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.
10. Exposed roof area and covered parking should be provided with material having high solar reflective index
11. Building design should cater to differently-abled citizens
12. 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

13. Water efficient plumbing features should be adopted
14. Design of the building should comply with Energy Conservation Building Rules, 2018 as applicable
15. Energy conservation measures as proposed in the application should be adopted in total
16. Buildings should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby during construction phase.
17. Construction work should be carried out during day time only.
18. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
19. All vehicles carrying construction materials should be fully covered and protected.
20. Construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
21. Grinding & cutting of building materials should not be done in open areas. Water jets should be used for grinding and stone cutting.
22. Occupational health safety measures for the workers should be taken during the construction.
23. All vehicles during the construction phase should carry PUC certificate.
24. 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.
25. Green belt should be developed along the periphery of the site with indigenous species.
26. 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.

The Committee decided to convene its 162th meeting on 2nd April (Online platform) and its 163th meeting on 16th, 17th & 18th April 2024

The Meeting ended by 5.00pm

Sd/-
Suneel Pamidi, IFS
Member Secretary, SEAC

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

LIST OF PARTICIPANTS:

Sl.No.	Name	13.03.2024	14.03.2024	15.03.2024
1.	Dr. R. Ajayakumar Varma (**Chairman**)	√	√	√
2.	Sri. S. Sheik Hyder Hussain	√	√	√
3.	Dr.A.Bijukumar.	X	X	X

4.	Dr.A.N.Manoharan	√	√	√
5.	Shri. M. Dileepkumar	X	√	X
6.	Smt. Beena Govindan	X	X	X
7.	Dr.C.C. Harilal	√	√	√
8.	Dr.K.VasudevanPillai	√	√	√
9.	Dr. Mahesh Mohan	X	√	√
10.	Dr.K.N. Krishna kumar	√	√	√
11.	Sri.V. Gopinathan	√	√	√
12.	Dr.A.V. Raghu	√	√	√
13.	Dr.N. Ajithkumar	√	√	√
14.	Suneel Pamidi(Secretary)	√	√	√