

**MINUTES OF THE 173rd MEETING OF THE STATE LEVEL EXPERT
APPRAISAL COMMITTEE (SEAC), KERALA MEETING HELD ON 04th, 05th AND
06th NOVEMBER 2024, IN THE CONFERENCE HALL, STATE ENVIRONMENT
IMPACT ASSESSMENT AUTHORITY, KERALA**

The meeting started at 10.00 AM on 4th November 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. 173.01 **Noting of the minutes of 172nd SEAC meeting held on 07th, 08th & 09th October 2024.**

Confirmed the minutes

Item No. 173.02 **Environmental Clearance for the Expansion of the Building Project, M/s Adlux Medicity & Convention Centre Pvt. Ltd, at Karukutty Village, Aluva Taluk, Ernakulam.
(Older EC issued File No. 1186/A2/2018/SEIAA)
(Expansion Project Proposal No: SIA/KL/MIS/273775/2022; File No: 2109/EC3/2022/SEIAA)**

M/s Adlux Medicity and Convention Centre Pvt. Ltd. Karukutty Village, Aluva Taluk, Ernakulam was issued EC as per the File No. 1186/A2/2018/SEIAA ,E.C. No. 28/2020 dated 27-02-2020 under violation category. As per norms, they were to implement Remediation Plan and Natural and Community Resource Augmentation Plan (RP & NCRAP) approved for Rs. 551.1 Lakh within three years. Subsequently, the Proponent applied for EC for expansion of the Project vide File No: 2109/EC3/2022/SEIAA (SIA/KL/MIS/273775/2022) on 18.8.2022. The application was considered by the SEAC, heard the presentation of the project details, verified the field level implication of the project and sought certain additional documents. The 139th meeting of the SEAC noted that the proponent has not implemented the remediation and natural and community resource augmentation plan and directed him to complete the implementation of RP & NCRAP. The 141st SEAC meeting noted a letter from MoEF & CC dated 31-01-2023 forwarding a complaint against the non-implementation of RP & NCRAP. decided to inform the Authority regarding the non-compliance of the Remediation Plan within the stipulated time-frame. The 164th SEAC meeting considered a letter from Adlux Medicity & Convention Centre Pvt. Ltd received on 22.4.2024 and opined that it has no objection for revising the activities proposed in the RP & CNRAP provided the project proponent submits credible reasons for their inability to implement the approved action plans and feasible alternative plans without change in the overall budget allocation. The 144th SEIAA meeting considered the request of the project proponent seeking intervention of the SEIAA for smooth implementation of the RP & NCRAP and extension of

the time period by two more years up to 26.02.2025. The Authority reconstituted the Monitoring Committee with a Member of SEAC as Chairman directed SEAC to consider and approve alternate proposals for RP & CNRAP, if the Project Proponent submits feasible proposals for the project region. The Authority also decided that the application for expansion shall be considered on satisfactory compliance of original EC conditions of approved remediation and natural resource augmentation plan. The Monitoring Committee was reconstituted vide Proceedings dated 12.09.2024 and the project proponent submitted revised RP & NCRAP and requested for its approval.

The Committee examined the revised RP & NCRAP submitted by the Project Proponent vide letter dated 05.11.2024. The total cost of Remediation Plan proposed is 5,51,10,000/-. After detailed evaluation of the revised proposal and hearing the difficulties faced by the Proponent from the Chairman of the Monitoring Committee, the Committee decided to recommend the following items for a total cost of Rs. 395.4 Lakh submitted in the revised RP & NCRA Plan as per the details submitted by the Proponent for approval of the SEIAA. The Authority may also direct the Proponent to submit revised plan for the rest of the total cost of RP & NCRAP of Rs. 551.1 Lakh.

1. Proposal received from Parakkadavu Panchayath for renovation of Puthenkulam for Rs. 50 Lakh.
2. Proposal received from Koratty Panchayath for renovation of Mangalassery Pongam Perumkulam for Rs. 25 Lakh.
3. Proposal received from Karukutty Panchayath for construction of Pump house and water supply from Alphonsa Nagar pond to Amathara Canal Bund road for Rs. 37.4 Lakh.
4. Proposal for drainage construction to enable water flow from NH 566 to Parakkadavu Canal for Rs. 50 Lakh.
5. Approved amount for beautification of National Highway as per the remediation plan for Rs. 25 Lakh.
6. Proposal received from Ernakulam Fire and Rescue Station for the construction of training centers, seminar halls and restrooms for officers, home guards and civil defense volunteers for Rs. 208 Lakh.

Item No. 173.03 Environmental Clearance issued to the Granite Building Stone Quarry project of Sri. Thomas. O.D for an area of 1.3307 Ha at Re-Survey Nos. 234/1, 234/2 & 234/5 in Muppayinad Village, Vythiri Taluk, Wayanad. (File No. No.1291/EC2/2019/SEIAA)

The Committee examined the proposal and noted the direction of 147th SEIAA meeting that the SEAC shall inspect the project area along with the officials from the Department of Mining and Geology, District Disaster Management Authority, Panchayath in presence of the complainants.

The Committee noted that the Panchayat Secretary had requested to re-examine the EC issued to the quarry project of Sri. Thomas. O.D due to the complaints from the public. It is also noticed that the District Collector, Wayanad vide letter dated 17.01.2022 reported that the project location is a steeply sloping area and also there are built up structures within 50m distance. **In these circumstances, considering the ecological fragility of the area and landslide proneness of certain parts of the District, the Committee decided the following.**

1. Entrust Dr. R. Ajayakumar Varma and Sri. S. Sheik Hyder Hussain for inspecting the project area along with the officials from the Department of Mining and Geology, District Disaster Management Authority and Panchayat in presence of the complainants and report
2. The SEIAA Secretariat shall provide necessary intimations to the Project Proponent, Complainants, officials of the Department of Mining and Geology and District Disaster Management Authority and the Panchayat Secretary well in advance.

Item No. 173.04 Report received from National Public Grievances & Redressal Commission on TMT Granites Pvt. Ltd. (1698/EC3/2024/SEIAA)

The Committee examined the proposal as per the direction of 148th SEIAA meeting. The Committee noticed that the EC of M/s TMT Granites for an area of 4.8221 Ha in Sy. No. 232 and 411(pt) in Mangalam Dam Village, Alathur Taluk, Palakkad expired on 22.04.2022. The Project Proponent submitted an application for revalidation of the EC and as part of the appraisal the Sub-Committee of SEAC conducted field inspection on 05th May 2022. Further, in the 119th SEIAA meeting, the Authority observed that the Project Proponent has not complied with certain EC conditions and hence directed to comply with the conditions within 3 months and submit the compliance report. As directed by the Hon'ble High Court in WP(C) No. 3439 of 2022 dated 22.03.2022, the application of revalidation of EC was disposed of, since the Project Proponent has failed to comply with the EC conditions. The Committee noted that Sri. Suresh Babu and Sri. K. Ponnan vide e-mail dated 26.04.2021 filed complaint against M/s TMT Granites and requested to give stop memo and to conduct manual surveys to assess the illegal extraction of the rocks. A local resident's complaint to the National Public Grievances and Redressal Commission (NPG & RC) prompted an independent investigation into TMT Granites Pvt Ltd's quarry operations. The NPG & RC inspected the site on 07.06.2024 and reported some serious allegations such as contaminating nearby water bodies and quarrying within a protected forest buffer zone. The report also highlighted serious breaches of legal, safety, and environmental regulations and emphasized the critical need for immediate corrective action to safeguard workers, the surrounding environment, and the local community. The area is ecologically sensitive due to rich biodiversity. Lush forests like Karimkayam, Odenthode, and Kadappara provide habitat for diverse flora and fauna. The 148th SEIAA meeting directed SEAC to consider the report of the NPGRC and conduct a field inspection to assess the compliance status of the EC within one month and suggest appropriate measures to comply with the observations of NPGRC. If the mining operation was continued beyond EC period appropriate action shall also be proposed by

SEAC. Based on discussion, the Committee decided to entrust Dr. K. Vasudevan Pillai and Dr. K.N. Krishna Kumar to conduct the field inspection to assess the compliance status of the EC and other environmental impacts, if any caused and suggest appropriate measures within one month. The Committee also decided to direct the SEIAA Secretariat to provide necessary intimation to the Proponent and Complainants, well in advance.

Item No. 173.05 **Report sought by Sri. V K Sreekandan M.P (Loksabha) on the complaint against the quarrying operation in Anangamala in Ottapalam Municipality, Palakkad. (2177/EC3/2024/SEIAA)**

The Committee noticed the complaint received from Sri. V K Sreekandan, Loksabha M.P and discussed it in detail. As per the complaint forwarded from the MoEF&CC vide letter no. IA-Z11012/8/2024-IA-II (NCM) dated 29.08.2024, Anangamala is a branch of Western Ghats and form part of Ward 1 of Ottappalam Municipality. The residents near the hill experienced landslides and were evacuated to safer places during the period of 2018-19. A quarry was in operation for the last several years in the area and the over burden, dumped like a small hill containing rock boulders, may cause landslide. The overburden dump may also block the water stream as well. So, it is requested to conduct an environmental study to prevent any possible landslides. **The Hon'ble MP requested to provide detailed status report in relation to the averments made in the complaint. Based on discussion, the Committee decided the following.**

1. The SEIAA secretariat shall provide a draft report incorporating the 3rd and 4th paragraph of the agenda note of the 173th SEAC meeting. Details of other quarries, if any in the area as per the records of SEIAA may also be incorporated in the draft report since the Hon'ble MP in his letter mentioned about the quarry which is functional for several years.
2. The Committee also decided to authorize the Member Secretary, SEAC to verify and approve the reply letter to the MP.

Item No. 173.06 **Environmental Clearance to Sri. Dineshmon N.T, M/s.Rudra Granites for the Granite Building Stone Quarry project at Sy.No. 1244/1 (pt) at Killanur Village, Thrissur Taluk, Thrissur District– Judgment dated 26.03.2021 in WP(C) No.8023 of 2021 - Revalidation of EC. (File No.823/SEIAA/EC1/2977/2015)**

The committee discussed the evaluation report on Damage Assessment, Remediation Plan and Augmentation Plan in detail. **Based on discussion, the Committee decided to direct the Project Proponent to submit the following additional documents.**

1. Standard reference or justification for taking unit costs of the components, Water (Rs. 0.15/L), Tree (Rs 500/-), Brocken land by excavation (Rs. 2 Lakh Lumpsum), Handling of topsoil/OB (Rs. 10/MT) and Conservation of schedule -1 species (Rs. 2 Lakh per species) for estimating the damage.
2. A detailed plan of action for Natural and Community Resource Augmentation Plan.

3. Justification for considering the sum of 2% of the project cost and 2 % of the benefit derived in the estimation of NCRAP.
4. Plan of action for compensatory afforestation in consultation with the Social forestry division of the Forest Department.

Item No. 173.07 **Regional EMP for mining of projects in Cluster Condition with area less than 5Ha. (SEIAA/56/A2/2024)**

Noted

Item No. 173.08 **Rejection order issued to the Environmental Clearance for mining of Granite Building Stone Quarry project of Sri. Muhammed Faisal K. P for an area of 2.1404 ha at Survey Nos 178/1, 179/pt, Block No: 56 in Morayur Village, Kondotty Taluk, Malappuram – Judgment dated 21.10.2024 in WP(C) No. 29603/2023 (File No-1300/EC/2019/SEIAA)**

The Committee discussed the Proposal in detail and notice the Judgement dated 21.10.2024 in WP(C) No. 29603/2023. The Proposal was considered in different SEAC/SEIAA meetings and the 112nd SEIAA meeting rejected (Rejection order was issued on 18.10.2021) the proposal as the report submitted is not site specific. Subsequently, the Project Proponent filed a WP(C) No.29603/2023 before the Hon'ble High Court with a prayer to direct the respondents to dispose of the application for EC by referring to Ext.P10, request of the project proponent dated 09.04.2022. As per the request, the PP states that they have conducted slope stability study by NIT Surathkal technical team as per the direction of 123rd SEAC meeting. In addition to that, they conducted Geotechnical investigations and modelling done by the reputed Labs as directed by the NITK experts. Subsequently, the PP requested to consider this as the final report regarding the Slope stability which concludes that the proposed area is stable as per the hazardous zonation map prepared locally and Geotechnical data and its modelling done by NITK.

Now the WP(C) No.29603/2023 is disposed of with Judgment dated 21.10.2024. As per the order the Hon'ble Court, the decision of the SEAC in its 124th meeting (Ext.8) pertinent to the relevant project was passed without hearing the petitioner or the scientist. Since the decision of the SEIAA in its 112th (Ext. P9) and 113th meeting (Ext. P12) to reject the application was passed based on the pertinent recommendation in the 124th meeting SEAC, the Hon'ble Court set aside the pertinent decisions in Ext. P9 and Ext. P12. Further, the Hon'ble Court directed the SEAC to fix a hearing to consider Ext.P1 application with prior notice to the petitioner in which the petitioner as well as the scientist shall be present and the petitioner shall ensure the presence of the scientist on that day. **Since the SEAC is directed to dispose of the application of the Petitioner within three months thereafter, the Committee decided to hear the Petitioner and the Scientist in the next meeting. Since the application was considered during the tenure of the previous SEAC, the Committee**

decided to entrust Dr. A.N. Manoharan and Dr. Mahesh Mohan to evaluate the application and report prior to the hearing.

PARIVESH FILES (Ver-1)
CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE
PART-1

Item No.01 **Environmental Clearance to M/s Shanoor Projects & Realtors Pvt. Ltd for the Building Project 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 Kazhakkootam Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala. (SIA/KL/INFRA2/453077/2023, 2478/EC3/2023/SEIAA)**

The Committee scrutinized the additional documents submitted by the project proponent. As per the additional documents submitted on 18.10.2024, the total water requirement is 157 KLD. The FAR proposed is 3.80. The Project Proponent commits to provide an EV charging facility for 10% of the total parking requirement. As per the application, the total built-up area of the project is 28,707.89 m² with 3 building blocks having Gr. floor + 14 floors. The maximum height of the building proposed is 44.60 meters. The total number of apartments proposed is 214 Nos. The plot area is 0.7293 ha. (7,293.13 m²). The total project cost is Rs. 55.8552 Crore. The total quantity of excavated soil will be 1,094 cu.m. and it is proposed to be used for landscaping, backfilling and internal road construction work within the site. The ground water table is found between 1.15 m. to 1.20 m below ground level. **The additional documents submitted are evaluated and found that the following documents are not satisfactory and need revision.**

1. Revised site-specific EMP incorporating CER as per guidelines published on the website of SEIAA with revised cost estimate.
2. Details, adequacy and operational sustainability of Biobin, OWC and biogas plant combinedly in an integrated manner.

Item No.02 **Environmental Clearance for the Building Stone Quarry project of Sri. Rajan Thomas, for an area of 4.9231 Ha. at Re-Survey Nos. 205/3, 205/5, 199/3, 199/8, 199/7, 199/7-1, 199/9, 199/6- 1, 198/1, 198/2, 197/1, 198/5, 198/5-6, 198/4, 207/1, 198/3, 206/2, 206, 206/4, 206/1, 206/3 in Kanjirappally Village & Panchayat, Kanjirappally Taluk, Kottayam. (SIA/KL/MIN/164009/2020, 1372/EC2/2019/SEIAA)**

The Committee examined proposal and discussed the EIA evaluation report in detail. The ADS sought are mostly attended by the Proponent and the details are found incorporated in the EIA report. **Based on discussion, the Committee decided to invite the Project Proponent for presentation of the revised EIA report incorporating all the ADS sought and the following shortcomings/clarifications.**

1. Most of the Maps (Figures) in the EIA report are not fully legible except the maps submitted along with the ADS-1.
2. Proposed garland drain details is not found given in the EMP report. Therefore, a detailed drainage plan with garland drain, silt traps, siltation tanks, outflow channel connecting to the natural stream is necessary
3. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024 is necessary instead of the affidavit submitted by the Proponent.
4. Response and remarks on the complaints raised by Sri. Raju R., President, Shree Mahakalipara Devi Temple, Sri. Rajesh K.G. and Sri. P. Jayakumar.

The SEIAA Secretariat shall provide the copy of the complaint to the PP for remarks

Item No.03 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdu Rahoof for an area of 3.2586 Ha at Resurvey No. 104/2B-5,104/2B 7,104/2B-4,104/2B-38 ,Block No.2 in Kannamangalam village, Thirurangadi taluk, Malappuram.(ADS Received) (SIA/KL/MIN/414508/2023 , 1763/EC6/2020/SEIAA)

The Committee examined the proposal and scrutinized the additional documents submitted by the PP. The proposed area is 3.2586 ha. Considering the cluster condition, EIA study was conducted and Public Hearing (PH) was held on 05.07.2022. 41 people attended the PH and 4 people participated in the discussion out of which 2 persons made adverse remarks on the project. The field inspection has been completed. The mineable reserve is 20,02,795 MT and the life of mine is 20 years. The proposed project cost is 295 lakh. The site is located on top of the Korimala, adjacent to another mine. The elevation of the site varies from 295-355m above MSL (pre-mining) and 270-355m above MSL (post-mining). The depth to water table in the lower slope region is 5m below ground level. The nearest house is at 175m from the project boundary. The ADS submitted has been evaluated in detail and found that they have addressed all the ADS except the approval of the District Level Crisis Management Committee and NOC from the Irrigation Department. **Based on discussion, the Committee decided to invite the Project Proponent for presentation including all shortcomings sought in the earlier meetings of the SEAC. The Proponent shall p also submit the following documents.**

1. Approval of the District Level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05-2014 as a portion of the site falls in moderate hazard zone.
2. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.

Item No.04 Environmental Clearance for the Granite Building Stone Quarry of Sri. A M Chackochan, M/s Aishwarya Granites for an extent of 0.6803 Ha at Re-Sy. No. 121/2 part in Elamadu Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/422678/2023, 1675/EC2/2020/SEIAA)

As invited the Project Proponent Sri. A M Chackochan and the Consultants Dr. A A Dhamodharan and Sri. Arunkumar were present. The Consultant made the presentation. As per the application, the total mineable reserve is 1,20,750 MT. The mine life is 3 years. The Comprehensive EMP is prepared for the following 6 quarries located within 500m radius.

SL No	Name of The Quarry	Area (Ha)	Survey No
1.	Aiswarya Granites -01	0.7800	117/6
2.	Aiswarya Granites -02	0.9957	268/1
3.	Aiswarya Granites -03	0.7969	272/3, 272/4, 272/5
4.	Aiswarya Granites -04, (Proposed Quarry)	0.6803	121/2 Part
5.	Aiswarya Granites -05	0.9993	109/3, 121/2
6.	Aiswarya Granites -06	0.3615	244/2

The Committee observed that the Comprehensive EMP prepared is satisfactory. **Based on discussion, the Committee decided to recommend EC for 3 years subject to the production of** NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024 and with following Specific Conditions in addition to the General Conditions:

1. Culverts of adequate width may be provided at locations where the haulage road crosses the drainage lines.
2. Harvested water should be used to meet the local drinking water demands whenever required as per the demand of local governments.
3. The green-belt should be developed prior to the commencement of mining. Choice of the species should be based on criteria such as (i) native trees; (ii) thick foliage; (iii) fruit bearing that would attract birds and, (iv) otherwise valuable with medicinal or soil fertility enhancer etc.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
5. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
6. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.

7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
8. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
9. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
11. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
12. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.
16. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. 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.
19. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
20. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

All the mitigation measures mentioned in the Comprehensive EMP should also be part of the EC conditions for all the projects incorporated in the EMP. Accordingly, EC should be amended as required.

Item No.05 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 scrutinized the Comprehensive EMP submitted by the Project Proponent and found it satisfactory. As per the application, the quantity proposed for mining is 23,288 MT

with a recoverable quantity of 16,302 MT. The life of mine proposed 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. As per the Cluster Certificate dated 08.06.2023, there are 2 other authorized quarries reported within 500m radius. **Based on the discussion, the Committee decided to recommend EC for 1 year subject to the following specific conditions in addition to the general conditions.**

1. The project proponent should comprehensively implement the EMP by considering the adjacent project sites.
2. The depth of mining should be limited to 5m below ground level.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above the 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/laborers 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 and maintained during the rest of the EC period.
17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.06 **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 re-examined the proposal as directed by the 148th SEIAA meeting. The SEAC in its 169th meeting found that the Project Proponent has already mined up to 76m AMSL, and the depth to water table is at 8m bgl. As the mining has already been conducted up to the water table, further mining in the area is not feasible. Therefore, the SEAC in its 169th meeting recommended rejection of the proposal. The Committee considered the re-consideration request of the PP vide letter dated 06.09.2024. The Committee also verified the reports of Hydrogeologist, Idukki and Dr Sajin Kumar K.S, University of Kerala which recommended mining up to 54m AMSL depth without considering the aspect of hydraulic continuity. **In the circumstance, the Committee decided to direct the Project Proponent to submit NOC from the Central Ground water Authority for mining below the level of ground water table.**

Item No.07 **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 scrutinized the Comprehensive EMP submitted by the Project Proponent and found it satisfactory. As per the application, the total quantity proposed for mining is 23,288 and the recoverable quantity is 16,302 MT. The life of mine is 1 year. The total project cost is Rs.5.42 lakh. The depth to the water table is 7m below ground level at 61m AMSL. The medium hazard zone is located at a distance of 9.60km from the project boundary. **Based on discussion, the Committee decided to recommend EC for 1 year subject to the following specific conditions in addition to the general conditions.**

1. The project proponent should comprehensively implement the EMP by considering the adjacent project sites.
2. The depth of mining should be limited to 5m below ground level.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above the 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/laborers 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 and maintained during the rest of the EC period.
17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.08 Environmental Clearance application for the Granite Building Stone Quarry Project of Sri. Sukumaran E., M/s. Perattur Rocks N Sands for an area of 4.6189 Ha at Re - Survey No. 430/1pt116, 430/1pt607, 430/1pt66, 430/1pt841, 430/1pt473, 430/1pt842, 430/1pt701, 430/1pt843 in Thayanoor Village, Vellarikundu Taluk, Kasaragod (SIA/KL/MIN/438095/2023, 2033/EC2/2022/SEIAA)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent. **Based on discussion, the Committee decided the following**

- (i) **Entrust Dr. R. Ajayakumar Varma for detailed evaluation of additional documents submitted by the project Proponent.**
- (ii) **Invite the Project Proponent for presentation of EIA report along with all shortcomings sought in 164th SEAC meeting.**
- (iii) **Direct Proponent to submit NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.**

Item No.09 **Environmental Clearance for the Proposed Granite Building Stone Quarry (Minor Mineral) of Sri. Syam G Raj for an area of 3.4519 ha. at Block no. 33, Re-sy Nos: 144/1, 144/2, 144/3, 144/4, 144/5, 144/7, 144/8, 144/9, 144/10, 144/11, 144/12, 143/1, 143/3-1, 143/3-2, 143/7, 143/15, 143/16, 145/4 of Pazhayakunnummel Village, Chirayinkeezhu Taluk, Trivandrum.**
(SIA/KL/MIN/438519/2023, 2427/EC3/SEIAA/2023)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent. On deliberation it is found that the depth of mining should be limited to 64m AMSL to avoid deep pit in the vulnerable valley portion. The Project Proponent submitted the details of side protection proposed for overburden storage site. **Based on discussion, the Committee decided to direct the PP to submit/revise the following additional documents.**

1. Revised Compensatory afforestation plan preferably in a public place, with geo-tagged photographs and species proposed to be planted.
2. Detailed drainage plan.
3. Revised legible survey map showing distance to all the built structures within 200 m radius.

Item No.10 **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)**

The Committee scrutinized the additional documents submitted by the project proponent dated 24/08/2024 and found them satisfactory. The PP clarified the present status of other quarry adjacent to the proposed area. The nearest building, at a distance of 27.2m, has been demolished, and the PP has submitted photographs of the same. As per the application, the total mineable reserve is 2,07,140 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. As per the additional documents submitted on 07.06.2024, the water table is at a depth of 20-22 below the ground level. In the Monsoon season, the water table is at a depth of 2m below ground level. **Based on discussion, the Committee decided to recommend EC for 3 years subject to the submission of NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04.2024. The following Specific Conditions in addition to the General Conditions, may be stipulated while issuing EC:**

1. Depth of mining should be limited to 120m 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.
8. A temporary wall of 5m height should be erected at appropriate locations on the boundary to avoid disturbance and nuisance to the nearby residents.
9. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. Implementation of CER Plan should be done during the first two years of the EC period and its operation and maintenance should be done till the completion of mine closure plan.
11. The haulage road should be provided with sprinkling facility to prevent dust pollution.
12. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
13. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
14. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm).
15. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
16. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
17. The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR. dump plan

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

Item No.11 Re appraisal of EC issued by DEIAA for the Granite Building Stone Quarry of M/s. Highland Silver Sands (P) Ltd for an area of 4.31 Ha at Re-Survey No.2/1(p) in Raroth Village, Thamarassery Taluk, Kozhikode (SIA/KL/MIN/447663/2023, 2484/EC2/2023/SEIAA)

The Committee examined the proposal in detail as directed by the 148th SEIAA meeting. As per the observation of the Authority based on Google imaginary, building stone quarries of Sri. Aby Joy Pottas, at Re-Sy No. 93 in Raroth Village, Thamarassery Taluk, Kozhikode for an area of 2.0040 Ha (EC issued vide File No. 1328/EC1/2019/SEIAA dated 30.07.2021) and Sri. Shamseer V.K at Re-Sy Nos. 2/18, 2/20, 2/46, 2/76, 2/77, 2/78 in Raroth Village, Thamarassery Taluk, Kozhikode for an area of 0.9926 Ha (EC issued vide File No. 1790/EC4/2020/SEIAA dated 03/01/2024) fall within the cluster of the proposed quarry of M/s. Highland Silver Sands (P) Ltd. The Committee noted EC was recommended for the project of M/s. Highland Silver Sands (P) Ltd for 7 years based on the Cluster Certificate dated 12.06.2023. Similarly, EC to Sri. Aby Joy Pottas and Sri. Shamseer V.K. were issued based on cluster certificate submitted by them. The Proponent submitted that his project obtained EC No. No.06. DEIAA/KL/MIN/3058/2016 dated 15.7.2017 when the other two projects were not there. As per the google map, there are operational quarries seen within 500m radius. Since the EC for the three projects were recommended/issued based on Cluster Certificate dated 12.6.2023, 3.1.2024 and 27.11.2020 issued by the Mining & Geology Department, **the Committee decided to refer back the proposal for an appropriate decision by the Authority.**

Item No.12 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)

The Committee scrutinized the additional documents submitted by the project proponent dated 17.10.2024 and found them satisfactory. As per the additional documents, the Cluster certificate dated 11.03.2024 stated that no quarry is working within 500m radius. The 170th SEAC meeting discussed the field inspection report conducted on 27.04.2024. The 161st SEAC meeting heard the Presentation of the Proposed Project. As per the application, the depth to water table is 9m bgl at 131m AMSL. The total quantity proposed for mining is 1,09,031MT with a recoverable quantity of 76,322 MT. The life of mine is 3 years. The cost of the project is Rs. 35,12,400/-. 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. **Based on discussion, the Committee decided to recommend EC for 3 years subject to the following specific conditions in addition to 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.13 Environmental Clearance for the Granite Building Stone Quarry of Sri. Anoop P.V., Managing Director, M/s. Rudra Stone and Crusher Private Limited for an area of 1.6896 Ha at Block No.30, Re-Sy Nos. 113/6, 113/7, 113/6-1 in Thekkada Village, Nedumangad, Thiruvananthapuram.
(SIA/KL/MIN/456003/2023, 2505/EC3/2024/SEIAA)

As invited the Project Proponent, Sri. Anoop P.V and the RQP Sri. D.P. Sreekumar were present. The RQP made the presentation. The total mineable reserve is 4,91,255 MT with an annual production of 98,251 MT. The life of mine is 5 years. The elevation of the proposed site varies between 195m and 110 AMSL. Nearest house is located at a distance of 58 m from the project boundary. The total project cost is 1,70,00,000/-. As per the Cluster Certificate

dated 18.10.2023, there are 2 non-working quarries within 500m radius and the total area comes below 5 Ha. The depth to water table as per the documents submitted dated 21/06/2024 is 8m bgl at 100m AMSL. **Based on discussion, the Committee decided to direct the PP to submit the following additional documents.**

1. Compensatory afforestation plan preferably in a public place, with geo-tagged photographs and species proposed to be planted should be submitted.
2. Soil profile across and along the project area.
3. Plan for providing a temporary wall with 5m height by connecting the BP6, BP7, and BP8.
4. EMP prepared by a NABET accredited consultant.
5. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.

Item No.14 Reappraisal of Environmental Clearance for the Granite Building Stone Quarry of Sri. Sunny Jose, Managing Partner of M/s. Payyavoor Granites for an area of 4.7036 Ha at Re Survey Block No. 84, Re Survey Nos. 1/1 & 1/12121 in Payyavoor Village, Taliparamba Taluk, Kannur District. (SIA/KL/MIN/456129/2024, 2517/EC4/2024/SEIAA)

As per the decision of the 170th SEAC meeting, the proponent was invited for presentation. However, the proponent vide letter dated 01.11.2024 requested to postpone the presentation to next meeting since the PP is out of station. **Hence, the Committee decided to defer the proposal as requested by the PP.**

Item No.15 Environmental Clearance for the Granite building stone quarry project of M/s. Crushed Metal Products, Managing Partner, Shri Aju Varghese for an area of 0.8250 Ha, at Re-Survey Nos. 329/3, 329/4, 329/6, 336/2, 330/8, 336/6 of Vellinezhi Village, Ottappalam Taluk, Palakkad. (SIA/KL/MIN/457432/2024 , 2507/EC2/2024/SEIAA)

As invited the Project Proponent Sri. Aju Varghese and the RQP Dr. Nazar Ahammed were present. The RQP presented the integrated EMP and salient features of the project. **Based on discussion, the Committee decided to direct the PP to submit/revise the following additional documents.**

1. Revised Comprehensive EMP prepared by a NABET Accredited consultant by considering the impacts of all the four projects located in the cluster, their mitigation measures and detailed plan for integrated implementation.
2. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.

Item No.16 Environmental Clearance for Granite Building stone Quarry of Sri. Eldho Issac for an area of 4.7023 Ha at Survey. No. 208/1 of Alanallur-III Village, Mannarkkad Taluk, Palakkad, Kerala (SIA/KL/MIN/72951/2022, 1590/EC1/2019/SEIAA)

The 146th meeting of the Authority referred back the proposal with direction to the SEAC to make definite recommendation with respect to (i) Submission of Proof of application submitted to SCNBWL for wildlife Clearance, (ii) Clarification regarding the contradiction in the mine life mentioned in the mining plan and the SEAC recommendation, (iii) Clarifications on misleading information regarding Puliyanthodu in the public hearing and the need for incorporating watershed conservation measures in the case of Puliyanthodu, (iv) Addressing all issues raised in public hearing and observations SEAC during field inspection specially related protecting environment in the project region, affecting the local population in general, (v) Shortcomings in the traffic study, operation of quarries by the Project Proponent in and around the proposed site and (vi) NOC from the Irrigation Department in compliance to Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon^{ble} High Court of Kerala in WP(C) No. 30737 of 2022 dated 19.04.2024.

The Committee scrutinized the additional documents submitted by the project proponent. The PP has submitted proof of application for Wildlife Clearance submitted to SCNBWL (Proposal No. FP/KL/QRY/5369/2020) on 24.10.2024. The mine life mentioned in the approved mine plan is 16 years and it was mentioned as 6 years in the SEAC recommendation, which was an unintentional typographical error. The PP has provided clarifications on the misleading information regarding Puliyanthodu in the public hearing and provided the watershed conservation measures in the case of Puliyanthodu vide additional documents submitted on 24.10.2024. All issues raised in public hearing and observations SEAC during field inspection specially relating to the environment protection in the project region and also affecting the local population in general has been addressed satisfactory and restated the same in the additional documents submitted on 24.10.2024. The Proponent also has satisfactorily addressed the shortcomings in the traffic study conducted on various roads to be used for transportation of mined material. The PP has submitted a notarized affidavit dated 17.10.2024 stating that he has applied for the NOC from the Irrigation Department on 23.8.2024 and the site visit has been completed.

The mineable reserve as per the approved mine plan is 16,39,470 MT and the life of mine is 16 years based on the production rate of 1,00,000 TPA. The lowest elevation is 95m above MSL and the highest elevation is 230m above MSL. As per the 10-year production details, the mining will not intersect the ground water table. The site does not form part of the landslide hazard zone published. **Considering that the PP has addressed five queries of the Authority satisfactorily and has taken step to address the 6th query, the Committee decided to recommend EC for 16 years subject to the submission of NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon^{ble} High Court of Kerala in**

WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024 and subject to the following Specific Conditions in addition to the General Conditions:

1. The blasting methodology, blasting pattern and blasting operations should strictly be as per the recommendations contained in the report of April 2023 submitted by M/s. NIT, Karnataka.
2. 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.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
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 5.00 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
15. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
16. The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR. dump plan

17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.
19. The impact of the project on the poultry and honey bee farmers w.r.t the ecological and socioeconomic aspects should be studied periodically and addressed appropriately and the output and outcome should be submitted in the HYCR
20. The watershed conservation proposed in the case of Puliyanthodu should be commenced from the beginning and the progress should be uploaded in the HYCR.

Item No.17 **Environmental Clearance of Granite Building Stone Quarry project of Sri. AbduRahiman A.C at Re Survey Block No.36, Re-Survey No: 269/1, 269/2, in Nediyruppu Village, Kondotty Municipality, Kondotty Taluk, Malappuram.**
(SIA/KL/MIN/78627/2019, 1543/EC3/2019/SEIAA)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent. **Based on discussion, the Committee decided to entrust Dr. A. N. Manoharan for detailed evaluation of additional documents submitted by the project Proponent.**

Item No.18 **Environmental Clearance for the proposed expansion of the project 'Adlux Medicity & Convention Centre P\4. Ltd.' in Block-3, Re-Survey No. 35/2 at Karukutty Village, Aluva Taluk, Ernakulam.**
(SIA/KL/MIS/273775/2022, 2109/EC3/2022/SEIAA)

M/s Adlux Medicity and Convention Centre Pvt. Ltd. Karukutty Village, Aluva Taluk, Ernakulam was issued EC as per the File No. 1186/A2/2018/SEIAA ,E.C. No. 28/2020 dated 27-02-2020 under violation category. As per norms, they were to implement Remediation Plan and Natural and Community Resource Augmentation Plan (RP & NCRAP) approved for Rs. 551.1 Lakh within three years. Subsequently, the Proponent applied for EC for expansion of the Project vide File No: 2109/EC3/2022/SEIAA (SIA/KL/MIS/273775/2022) on 18.8.2022. The application was considered by the SEAC, heard the presentation of the project details, verified the field level implication of the project and sought certain additional documents. The 139th meeting of the SEAC noted that the proponent has not implemented the remediation and natural and community resource augmentation plan and directed him to complete the implementation of RP & NCRAP. The 141st SEAC meeting noted a letter from MoEF & CC dated 31-01-2023 forwarding a complaint against the non-implementation of RP & NCRAP. decided to inform the Authority regarding the non-compliance of the Remediation Plan within the stipulated time-frame. The 164th SEAC meeting considered a letter from Adlux Medicity & Convention Centre Pvt. Ltd received on 22.4.2024 and opined that it has no objection for revising the activities proposed in the RP & CNRAP provided the project proponent submits credible reasons for their inability to implement the approved action plans and feasible alternative plans without change in the overall budget allocation.

The 144th SEIAA meeting considered the request of the project proponent seeking intervention of the SEIAA for smooth implementation of the RP & NCRAP and extension of the time period by two more years up to 26.02.2025. The Authority reconstituted the Monitoring Committee with a Member of SEAC as Chairman directed SEAC to consider and approve alternate proposals for RP & CNRAP, if the Project Proponent submits feasible proposals for the project region. The Authority also decided that the application for expansion shall be considered on satisfactory compliance of original EC conditions of approved remediation and natural resource augmentation plan. The Monitoring Committee was reconstituted vide Proceedings dated 12.09.2024 and the project proponent submitted revised RP & NCRAP and requested for its approval.

The Committee examined the revised RP & NCRAP submitted by the Project Proponent vide letter dated 05.11.2024. The total cost of Remediation Plan proposed is 5,51,10,000/-. After detailed evaluation of the revised proposal and hearing the difficulties faced by the Proponent from the Chairman of the Monitoring Committee, the Committee decided to recommend the following items for a total cost of Rs. 395.4 Lakh submitted in the revised RP & NCRA plan as per the details submitted by the Proponent for approval of the SEIAA. The Authority may also direct the Proponent to submit revised plan for the rest of the total cost of RP & NCRAP of Rs. 551.1 Lakh.

7. Proposal received from Parakkadavu Panchayath for renovation of Puthenkulam for Rs. 50 Lakh.
8. Proposal received from Koratty Panchayath for renovation of Mangalassery Pongam Perumkulam for Rs. 25 Lakh.
9. Proposal received from Karukutty Panchayath for construction of Pump house and water supply from Alphonsa Nagar pond to Amathara Canal Bund road for Rs. 37.4 Lakh.
10. Proposal for drainage construction to enable water flow from NH 566 to Parakkadavu Canal for Rs. 50 Lakh.
11. Approved amount for beautification of National Highway as per the remediation plan for Rs. 25 Lakh.
12. Proposal received from Ernakulam Fire and Rescue Station for the construction of training centers, seminar halls and restrooms for officers, home guards and civil defense volunteers for Rs. 208 Lakh.

Item No.19 Environmental Clearance for the Expansion of Technopark Phase III in Attipra Village, Thiruvananthapuram.
(SIA/KL/MIS/52532/2019, 1555/EC1/2019/SEIAA)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent dated 16.10.2024. **Based on discussion, the Committee decided to invite the Project Proponent for the presentation of salient features of the proposed project and the details of additional documents submitted. The PP shall also address all the shortcomings sought in the 159th SEAC meeting.**

Item No.20 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Narikkadan Dasan at Re. Survey No. 236/3,237/1&238/2 in Thirumeni Village, Payyannur Taluk, Kannur (File No. 1292/EC2/2019/SEIAA) (SIA/KL/MIN/269882/2022, 1292/EC2/2019/SEIAA)**

The Committee examined the proposal and found that the application was recommended rejection as per the decision of the 168th SEAC meeting. The 147th SEIAA meeting considered the observations of SEAC and decided to reject the application by invoking the Precautionary Principle and the rejection order was issued on 19.10.2024. **But, as per the Parivesh, the status of the proposal is “Agenda Uploaded by SEAC”. Hence the Committee decided to recommend rejection of the proposal and direct SEIAA secretariat to issue necessary proceedings to be uploaded in the portal.**

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

Item No.01 **Extension for Environmental Clearance for Granite Building Stone Quarry of Mr. Davy Stephen at Survey No: 47/15, 48/3 in Bellur Village, Kasaragod Taluk, Kasaragod. (SIA/KL/MIN/256773/2022, No. A/2547/17/DEIAA)**

The Committee examined the proposal and discussed the evaluation report in detail. **Based on the discussion, the Committee decided to direct the PP to submit the following additional documents.**

1. Certificate from the Mining & Geology department regarding the resource extracted so far and balance resource available for extraction
2. EMP prepared by a NABET accredited agency with adequate budget provision with CER
3. CER with monitorable physical target as per the guidelines published on the SEIAA website
4. Environment Management Committee to be constituted
5. Relocate the road from buffer zone and provide the geotagged photographs of the relocated road
6. Geotagged photographs of the garland canal, silt traps, siltation tank, overflow drain connecting natural flow channel
7. Plan for correcting the benches where ever required.
8. Geotagged photographs from all the sides of the buffer zone
9. Compensatory afforestation plan preferably in public places with the details of the plants to be proposed for planting.
10. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon’ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.

PARIVESH FILES (Ver-2)

PART-1

Item No.01 **Environmental Clearance for the Laterite Building Stone Quarry of Mr. Sabu Thomas for an area of 0.0971 Ha. at Survey No. 573/1 in Parappa Village, Vellarikundu taluk, Kasaragod. (SIA/KL/MIN/457645/2024)**

As invited the Project Proponent Sri. Sabu Thomas and the RQP A. Mahammad Kunhi were present. RQP made the presentation. As per the application, the mineable reserve proposed is 6142MT. The life of mine is 1 year. The Project cost is 10 Lakhs. The elevation of the area varies between 197 m and 193 m AMSL. As per the presentation the nearest house is located at a distance of 103m from the project boundary. The depth to water table reported is 10m bgl at 159m AMSL. The High Hazard Zone is at a distance of 2.41 km and the Moderate Hazard Zone is located at a distance of 8.70 km. **Based on discussion, the Committee decided to recommend EC for 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 and maintained during the rest of the EC period.

15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

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

As invited, Sri. Hashim V.K, Executive Engineer, Environmental consultants from KITCO Ltd. and Officials representing KRCL was present. The Consultants viz. Mr. Sundararajan (EIA Coordinator), Dr. K. Soman (Geology and Hydrology), Dr. P.K. Shaji (Ecology and Biodiversity), Mr. Vinod Kumar L (Air and Water Quality), Pavithran K (Socio-Economic Aspects), Jacob Varghese etc. were represented KITCO. The Officials from KRCL viz. Birendra Kumar, Gulzar Ahmad, M. Muralidhar, and Snehal Prasoon were also present. The Consultants/ EIA coordinator made the presentation. The Committee explained the shortcomings in the additional documents submitted and the KRCL officials and Consultants provided explanations to the additional documents submitted by them. The Committee pointed out that the project area falls in an environmentally fragile region, high landslide hazard zone and ESA villages. The area recorded landslides in the past with high fatalities and experienced an extremely severe landslide disaster with very high death toll, loss of properties and adverse land modifications in the recent past. Therefore, it is necessary that all the anticipated impacts due to various activities envisaged under the project during the construction and operation phases have to be evaluated with adequate scientific inputs and considering up to date scientific literature available on such development projects elsewhere and their impacts. The additional documents also lack explanation on the vibration and overpressure impact of blasting at various distances and also on the nearby built structures, if any, in the project area based on primary data, wherever it is possible to be collected. It is also necessary to examine in detail the possibility of accentuating landslide incidents in the area based on detailed evaluation of the causative factors and impacts of the severe landslide experienced in the area recently. It is also required to suggest the long-term mitigation measures for the anticipated impact on the endangered, endemic and range restricted wildlife fauna of the region along with assessment of Carbon credit potential of the Project. The impact of extraction of huge requirement of material for the construction of tunnel and effective management of muck generated during the tunnelling process need to be addressed specifically. Further, it is understood that the DPR of the project is finalized without incorporating the cost required for implementation of the EMP and clarification is needed as to how the EMP will be implemented without incorporation of the cost in the DPR. The Project Proponent and Consultants agreed to the suggestions of the Committee. **Based on discussion, the Committee decided to direct the Project Proponent to submit the ADS sought earlier with detailed scientific inputs and evaluation of primary data and scientific literature and also the concerns raised above for further consideration of the project.**

Item No.03 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Gurudeeksha L, M/s. Chaprayil Granites Pvt. Ltd., for an area of 4.9500 Ha at Block No. 39, Re-Survey Nos. 173/4-7, 173/4-16, 176/1, 176/1-3, 177/1, 177/1-2, 177/1-3, 177/1-4, 177/1-5, 177/1-6, 177/1-7, 177/3, 177/5, 177/6, 177/6-2, 178/3, 178/3-2, 178/4, 178/5 in Chadayamangalam Village, Kottarakkara Taluk, Kollam District. (SIA/KL/MIN/460718/2024)**

The Committee scrutinized the additional documents submitted by the project proponent and found them satisfactory. The PP submitted NOC from the Irrigation Department dated 10.10.2024 as per the direction of the Hon'ble High Court. The Committee examined the response of the PP to the Complaint received from Sri. Navas MI and observed that the explanation is satisfactory. As per the approved Survey Sketch from Village Office dated 06.05.2024, there are no houses within 200 m of project site. A letter from the Secretary, Chadayamangalam Grama Panchayath is obtained stating that there are no residential buildings within 200 m of the project site. The notice of public hearing was published by the Kerala State Pollution Control Board (KSPCB) on 05.12.2023. The PP states that the Vaattathil Thangal waterfall mentioned in the complaint is found at an aerial distance of 1.04 km. The Committee also noted the Complaints of Sri. Nazeer E. K, Sri. Abdul Pami K, Sri. Noushad, Sri. Sirajudeen and Sri. Muhammed Rafi received on different dates.

As per the revised EIA report, the estimated capital cost of the proposed mining project is 7.76 Crore. The cost estimated for the environment management measures of the project is 140.50 Lakh/year as the capital cost and Rs.289.10 Lakh for 10 years as the recurring cost. The highest elevation of the proposed area is 125 m AMSL almost in the middle of the lease area and the lowest elevation is 90 m above AMSL. The depth to water table is found at 50 m AMSL. The Mineable Reserves reported is 34,75,360 MT for a mine life of 10 years. The Medium Hazard Zone is located at a distance of 13.77 Km and the High Hazard Zone is located at 26.47 Km from the project boundary. The Public consultation was carried out on 06.01.2024. **Based on discussion the committee decided to recommend EC for 10 years the following specific conditions in addition to the general conditions.**

1. Depth of mining should be limited to 70m AMSL.
2. All the issues raised in the complaints should be addressed meticulously and the actions taken should be incorporated in the first half yearly compliance report.
3. All the assurances given at the time of the Public Hearing should be implemented scrupulously and the action taken report should be incorporated in the first half yearly compliance report
4. The green belt should be initiated prior to the commencement of mining using indigenous species.
5. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.

6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.
10. A temporary wall of 5m height should be erected on the western side boundary of the site connecting BP6-BP7-BP8 and southern side boundary of the site connecting BP6-BP5-BP4-BP3 to avoid disturbance and nuisance to the nearby residents and the road traffic.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first two years of the EC period and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinklers to prevent dust pollution.
14. 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).
15. 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.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm).
17. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
18. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from solar power
19. 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
20. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
21. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.04 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri Hamsa.M.K, Managing Partner, M/s. Kayiliad Granites, for an area of 1.7029 Ha at Re-survey Block No. 46, Re-Survey Nos. 316/1-2, 317/1, 317/4, 318/1-3 in Chalavara Village, Ottappalam Taluk, Palakkad District. (SIA/KL/MIN/456096/2024)**

The Committee scrutinized the additional documents submitted by the project proponent and all the documents submitted are not found satisfactory. **Based on discussions, the Committee decided to entrust Dr. K.N. Krishna Kumar and Dr. K. Vasudevan Pillai for conducting field inspection and report. The Sub-Committee shall also verify the ADS submitted by the PP.**

Item No.05 **Environmental Clearance for the Granite Building Stone Quarry of Sri. B. Sreekandan, for an area of 10.4881 Ha at Block No. 38, Re- Sy No. 227/1, 227/1-1, 227/1-2, 227/7, 227/18, 228/3, 228/4, 228/5, 228/6, 228/7, 228/10, 228/12, 228/13, 228/14, 228/17, 228/18, 228/19, 228/20, 228/21, 229/4, 229/16, 229/17, 264/3, 264/6, 264/6-1, 264/8, 264/9, 264/9-1, 264/10, 264/10-1, 264/11-1, 265/3, 265/4, 265/8, 265/9 in Anavoor Village, Neyyattinkara, Thiruvananthapuram. (SIA/KL/MIN/461000/2024)**

The Committee discussed the Field Inspection Report and noted the following salient aspects in the field.

1. Land is under healthy natural trees/ vegetation.
2. Access Road is narrow and need widening (Access from Kottakkal - Malavilakonnam Panchayath road, connected to Marayamuttam – Paliyod road (680 m, S of project site)
3. Soil thickness is relatively high.
4. Existing two quarries are sharing boundary on one side.
5. There are other four quarries within 500 m.
6. CER plan for Rs 80 lakh includes Rejuvenation of Chirakkulam Pond and cleaning and construction of walkway and pond wall benefitting about 250 agricultural families.
7. Number of trees to be cut is 460 Nos

Based on the observations and discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application. The Committee also decided to entrust Dr. Mahesh Mohan for evaluating the EIA report.

1. Revised compensatory afforestation plan along with geo-tagged photographs of the proposed site and species proposed to be planted.
2. Depth to water table measured in the nearest open well to the site with geotagged photographs of the site, distance to the well from the project boundary and elevation of the well site.
3. Baseline environmental data is not found uploaded

4. Details regarding the proof of application submitted for wildlife clearance since as per the PFR the Neyyar- Peppara Wildlife Sanctuary is reported within a 10km radius.
5. Proposal for specific protection of the site against the steep slope covering the boundary connecting boundary pillars BP29-BP30-BP31-BP34-BP35 and BP36
11. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP(C) No. 30737 of 2022 and 4655 of 2024 dated 19.04. 2024.
6. Plan for widening of access road for easing transportation of materials/ products (Malavilakonnam Panchayath road, which connected to Marayamuttam – Paliyod road)
7. Detailed site specific drainage plan incorporating garland drain, silt traps, siltation ponds, overflow connectivity to nearest natural drain specifically considering the steep slope and boundaries of the two adjacent quarries.
8. Details of side protection proposed for topsoil.
9. Proof of the boundary pillars provided all around the quarry site.
10. Details of proposed compensatory afforestation (1650 Nos) with local species of trees, geo-coordinates of proposed area for afforestation.
11. Precaution suggested for protecting a pumping Station existing within 250 m.
12. Details of major issues raised during public hearing and proposed mitigative measures/ actions.

Item No.06 Environmental Clearance for the Ordinary Earth Excavation Project of Sri. Siyad P A, for an area of 48.35Ares at Block No. 27, Re- Sy No. 162 in Kizhakambalam Village, Kunnathunadu Taluk, Ernakulam. (ADS Received) (SIA/KL/MIN/467076/2024)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent. The Project Proponent submitted work order from Prompt Enterprises dated 05.05.2024, intended for the earth filling and compaction work for Tata consultancy Services at KINFRA Innovation Park, Kakkanad. The Committee noted that the Comprehensive EMP submitted does not mention about the impact due to combined activities of the adjacent quarries and the mitigation activities required for the excavations in the adjacent land. **Hence the Committee decided to direct the Project Proponent to submit Comprehensive EMP by considering the activities and impacts of all the Projects within the cluster.**

Item No.07 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Manikandan K, for an area of 0.9713 Ha at Block No. 41, Re-Survey Nos. 354/360, 354/364 in Peringome Village, Payyanur Taluk, Kannur. (SIA/KL/MIN/459950/2024)

The Committee examined the Comprehensive EMP submitted by the project proponent dated 15.10.2024 and is not found satisfactory. The proposed site is relatively large, and there are many adjacent quarries within 500m radius. Therefore, the activities and impacts will be

much higher. **In these circumstances, the Committee decided to give one more chance to the Project Proponent to submit Comprehensive EMP prepared by a NABET accredited EIA consultant.**

Item No.08 Environmental Clearance for the Granite Building Stone Quarry of Sri.Jismon B, M/s. JS BLUE METALS LLP for an area of 0.8595 Ha at Sy No. 1065/1-4, 1065/3-D in Marady Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/469930/2024)

The Committee examined the additional documents submitted by the project proponent dated 10/10/2024 and found them satisfactory. As per the additional documents, the PP submitted the revised EMP prepared by the NABET accredited agency. The soil thickness of the area varies from 0.5 to 1.5 m. The elevation difference of the area varies between 121m to 149m AMSL. As per the application, the total mineable reserve is 2,47,380 MT. The life of mine is 2 years. The depth to water table is 12-15m bgl. The Medium Hazard Zone is located at a distance of 15m from the proposed site. The High Hazard Zone is located at a distance of 23.4km from the site. The PP submitted NOC from the Executive Engineer, Irrigation Department, Muvattupuzha, stating that no objection to conduct mining activities without affecting the irrigation structures subjected to 18 conditions. **Based on discussion the committee decided to subject to recommend EC for 2 years the following specific conditions in addition to the general conditions.**

1. Depth of mining should be limited to 120m AMSL to avoid impoundment of water on top of the hill considering the slope of the terrain and land fragility.
2. All the conditions in the NOC of the Irrigation Department should be scrupulously followed.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.

9. A temporary wall of 5m height should be erected at appropriate locations on the boundary to avoid disturbance and nuisance to the nearby residents.
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. 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 5.00 pm).
16. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
17. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
18. The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR. dump plan
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
20. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.09 Environmental Clearance for the Excavation of Ordinary Earth of Sri. Althaf K A, for an area of 99.95Ares at Block No. 27, Re- Sy No. 162 in Kizhakambalam Village, Kunnathunad Taluk, Ernakulam.(ADS Received) (SIA/KL/MIN/466642/2024)

The Committee examined the proposal and scrutinized the additional documents submitted by the project proponent. As per the documents submitted, the Project Proponent submitted work order from Prompt Enterprises dated 05.05.2024, intended for the earth filling and compaction work for Tata consultancy Services at KINFRA Innovation Park, Kakkanad. The Committee noted that the Comprehensive EMP submitted does not mention about the impact due to combined activities of the adjacent quarries and the mitigation activities required for the excavations in the adjacent land. **Hence the Committee decided to direct the Project Proponent to submit Comprehensive EMP by considering the activities and impacts of all the Projects within the cluster.**

Item No.10 **Reappraisal of Environmental Clearance issued by DEIAA, Palakkad for the Granite Building Stone Quarry of Sri. Tony Nirmal, Managing Director, M/s Rockshell Granites and Sand (Pvt) Ltd for an area of 1.2144 Ha at Survey No. 189/1 in Vaniyamkulam II Village, Ottapalam Taluk, Palakkad District.(SIA/KL/MIN/465843/2024)**

As per the decision of the 167th SEAC meeting, the proponent was invited for a presentation. However, the proponent vide letter dated 29.10.2024 informed his inability to attend due to the non-receipt of the CCR from the MoEF&CC. **Hence, the Committee decided to defer the proposal as requested by the PP.**

Item No.11 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Unneenkutty for an area of 0.5192 Ha at Block no. 36, Re Survey No. 347 in Kulukkallur Village, Pattambi Taluk, Palakkad District. (SIA/KL/MIN/473085/2024)**

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. The PP obtained NOC from the Irrigation Department dated 26.09.2024 subjected to 10 conditions for a period 1 year. The depth to the water table is reported as 6m BGL at 37 m AMSL. The Cluster certificate dated 26/07/2024, states that two working quarries within 500m radius and the total area altogether comes less than 5Ha. The mineable reserve is reported as 1,02,914MT for a mine life of 5 years. The elevation of the area varies between 65m to 56m RL. The project cost is 60 lakh. The distance to nearest house is 100.1m from the project boundary. **Based on discussion, the committee decided to recommend EC for 5 years subject to the following specific conditions in addition to the general conditions.**

1. Depth of mining should be limited to 52m AMSL considering the depth to water table.
2. All the conditions in the NOC of the Irrigation Department is to be scrupulously followed.
3. The green belt should be initiated prior to the commencement of mining using indigenous species.
4. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.

9. A temporary wall of 5m height should be erected at appropriate locations on the boundary to avoid disturbance and nuisance to the nearby residents.
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. 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 5.00 pm).
16. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
17. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
18. The Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR. dump plan
19. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
20. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.12 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mohammed Shareef, for an area of 1.1757 Ha at Block No.1, Re-Sy No. 65/A5-19 in Valambur Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/474419/2024)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the Plan for Compensatory afforestation. As per the documents submitted, the depth to water table is 11.4m bgl. **The Committee decided to direct the PP to submit/revise the following additional documents.**

1. Revised Compensatory afforestation plan preferably in a public place, with geo-tagged photographs and species proposed to be planted.

2. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP (C) No. 30737 of 2022 and 4655 of 2024 dated 19.04.2024.

Item No.13 Environmental Clearance for the Building and Construction project, M/s Oceanus Emerald Enclave of Sri. Mr. Thomas P. K at Survey Nos 242/17, 244/2, 244/3, 244/4, 244/5, 244/6, 244/8, 244/8-1, 244/9, 250/1, 250/2-1, 250/2-2 in Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram. (SIA/KL/INFRA2/469908/2024)

The Committee discussed the Field Inspection Report and noted the following salient aspects in the field. **Based on the observations and discussion, the Committee decided to direct the PP to submit the following additional documents for further appraisal of the application.**

1. Modified emergency exit plan/Modified emergency evacuation plan.
2. Revised rear side entry plan.
3. Proposal for vertical gardening and other greening provisions.
4. CER as per the guidelines uploaded on the SEIAA website.
5. Details of Rain Water Harvesting System proposed (location, size of tank, and mode of drawl treatment and reuse) as the details given are found inadequate.
6. Details of Solar Power generation proposed with details on roof area coverage, and possibility of using it for open space lighting. KSEB Grid connectivity, for ensuring better usage of non-conventional energy and possibilities if any for increased use of solar power.
7. Explore the possibility of providing post type solar yard lighting system in public places within the Compound.
8. Provide details of open space available and proposal for play zone area for children and walk way for elders.
9. Details of proposed action for protecting the existing trees in the slopy area for preventing soil erosion/ slide.
10. Provide details / adequacy / operational sustainability of Biogas alone and provide possibility of combining OWC / Biobin, for ensuring operational sustainability of easily degradable and non-easily degradable part of biodegradable waste.
11. Submit a revised storm water management plan, including possibility of providing sufficient site-specific storm water management system.
12. Provide a revised EMP and its cost estimate considering all the above-mentioned aspects and link it with project cost, covering all the environmental impacts anticipated.

Item No.14 **Re-appraisal of EC issued by DEIAA Palakkad, the Granite Building Stone Quarry of Sri. Nishad. P. V for an area of 3.4277 Ha at Survey Nos. 348/1,2,3 in Thrithala Village, Pattambi Taluk, Palakkad District. (SIA/KL/MIN/474076/2024)**

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the Mining Plan Approved dated 11.09.2017, the mineable reserve is estimated as 7,64,740 MT for mine life of 9 years. The elevation of the area varies between 90m-47m AMSL. The depth to water table is 8m bgl. The quarrying lease was executed on 08.11.2017 and it expires on 07.11.2026. As per the Scheme of Mining (dated 14.03.2022), a total quantity of 3,10,314 has been mined for the period of 2017-2022 and the remaining quantity of 45,44,26 MT, will be mined out in the remaining period. As per the letter of the Village Officer dated 31.08.2024 certified that the building located at a distance of 13m will be used as store room. The PP also obtained NOC from the Irrigation department vide letter dated 23.09.2024 for a period of one years subjected to 21 conditions. The High hazard zone is reported as 19.64km away from the site. The moderate hazard zone is located at a distance of 17.04km from the proposed site. As per the presentation, the life of mine estimated is 6 years. **Based on discussion, the committee decided to recommend EC for 6 years (as per the mine life given in the Scheme of Mining) subject to the following specific conditions in addition to the general conditions.**

1. Depth of mining should be limited to 40m AMSL considering the depth to water table.
2. All the conditions in the NOC of the Irrigation Department should be scrupulously followed.
3. The mine pits formed within and adjacent to the proposed site should be safeguarded against any types of accidents
4. The green belt should be initiated prior to the commencement of mining using indigenous species.
5. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.

10. A temporary wall of 5m height should be erected at appropriate locations on the boundary to avoid disturbance and nuisance to the nearby residents.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first two years of the EC period and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
14. 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).
15. 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.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm).
17. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
18. 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
19. 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
20. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
21. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

Item No.15 Environmental Clearance for the Existing Re-Rolling mill of Ms. Richa Tantia, Managing Director, M/s. Palakkad Steels Pvt. Ltd. for an area of 0.324 ha at Survey Nos. 592-1B, IDA Kanjikode, Pudussery Village, Palakkad Taluk, Palakkad District.(SIA/KL/IND1/463490/2024)

As invited, Sri. B. Muralidharan attended as the authorised person representing the Project Proponent. The Consultants Sri. G V Reddy (M/s TEAM Labs and Consultants) made the presentation. The Committee heard the presentation and agreed to the idea of Integrated CER proposal for the BUDS Rehabilitation Centre (BRC). While implementing such an integrated CER proposal there should be an implementation committee and one of the units should take the lead of the Committee. An affidavit to the extent of collective implementation and pooling of funds to a separate dedicated bank account for the purpose should be submitted. There is also a requirement of a Monitoring Committee with representation from the concerned Local Government and Participating units and Head of the Buds School as the Convenor. As per the presentation, the actual production capacity of the Re-Rolling mill is 42

MTPD. The project cost is 6.41 Crores. **Based on discussion, the Committee decided to entrust Dr. A V Raghu and Sri. Sheik Hyder Hussain for field inspection and evaluation of the EIA and EMP report and submit their observations and findings.**

Item No.16 Environmental Clearance for the Existing Mild Steel Re-Rolling mill of Sri. Rathan Lal Tantia, Managing Director, M/s. Lal Steels Pvt. Ltd. for an area of 0.607 Ha at Survey No. 407/1 in Pudussery Central Village, Palakkad Taluk, Palakkad District. (SIA/KL/IND1/463347/2024)

As invited, an authorised person Sri. Sachin Kumar Tantia represented the Project Proponent. The Consultants Sri. G V Reddy (M/s TEAM Labs and Consultants) made the presentation. The Committee heard the presentation and agreed to the idea of Integrated CER proposal for the BUDS Rehabilitation Centre (BRC). While implementing such an integrated CER proposal there should be an implementation committee and one of the units should take the lead of the Committee. An affidavit to the extent of collective implementation and pooling of funds to a separate dedicated bank account for the purpose should be submitted. There is also a requirement of a Monitoring Committee with representation from the concerned Local Government and Participating units and Head of the Buds School as the Convenor. As per the presentation, the actual production capacity of the Re-Rolling mill is 42 MTPD. The project cost is 6.41 Crores. **Based on discussion, the Committee decided to entrust Dr. A V Raghu and Sri. Sheik Hyder Hussain for field inspection and evaluation of the EIA and EMP report and submit their observations and findings.**

Item No.17 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Keelath Kasim, (Designated Partner) Puthanveettil Granites LLP for an area of 0.8010 Ha at Block No.01, Sy No. 137/4-6 in Valambur Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/477089/2024)

As invited, the Project Proponent Sri. Keelath Kasim and the RQP V.K Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 1,72,468.67 MT. The life of mine is 3 years. The elevation difference of the proposed site is 100m MSL to 135m MSL. As per the presentation, the depth to water table is 8m BGL. Considering the depth to water table, the mining will have to be limited to 90m above MSL. The Proponent stated that the nearest building, located 45.8m from the project boundary, is an office building. The distance to high hazard is located at a distance of 19.8 km and the distance to medium hazard is 390m from the project boundary. As per the cluster certificate dated 09.05.2024 there are two quarries viz. Quarry of Puthanveetl associates (1.4603 Ha) and Abdhul Nasar P (2.1748 Ha) within a 500m radius altogether having an area of less than 5 Ha. **Based on discussion, the Committee decided to direct the PP to submit the following additional documents.**

1. Comprehensive EMP prepared by a NABET accredited agency considering all the quarries within the cluster of 500m radius.
2. Detailed clarification/explanation for the complaints or allegations raised by the local people against quarrying including that of the reported cracks on the houses in the vicinity.
3. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP (C) No. 30737 of 2022 and 4655 of 2024 dated 19.04.2024.

Item No.18 Environmental Clearance for the Ordinary Earth Excavation Project of Sri. Kuriakose for an area of 76.10 Ares (0.7610 Ha) at Sy No. 227/1-37, 227/1-8, 227/1-8-2 in Valakam Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/482927/2024)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the Comprehensive EMP. It is noted that there is a house at 15m from the project boundary. The mine life proposed is 1 year. The depth to water table is reported as 8.5m and the depth of mining is 2m bgl. The Committee noted there are two mining proposal adjacent to the proposed site owned by Sri. Suresh K.K, (SIA/KL/MIN/469574/2024) and Sri. Benny C. Cherian (SIA/KL/MIN/489897/2024). On verification, it is found that the comprehensive EMP prepared does not consider the activity and impact of adjacent projects. **Hence, the committee decided to direct the PP to submit the revised Comprehensive EMP considering the mitigation measures for adjacent projects.**

Item No.19 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Pulliyil Madasseri Alavi for an area of 0.5900 Ha at Block No. 08, Re- Sy No. 1557/6, 1557/7, 1557/3, 1557/4 in Melmuri Village, Eranad Taluk, Malappuram. (SIA/KL/MIN/475265/2024)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the application, the quantity proposed to be extracted is 81,125 MT for a mine life of 2 years. The elevation of the site varies from 140 to 142m above MSL. The average depth of mining is reported as 5.5m. There are no houses within 50m distance from the project boundary as per the survey map. A water tank is located at a distance of 71.62m from the project boundary. The moderate hazard zone is at a distance of about 895.20m from the proposed site. The depth to the water table is reported as 10m below ground level at 114m AMSL. The average thickness of laterite to be mined is 5.5m. The project cost is Rs. 17,00,000/-. **Based on discussion, the Committee decided to recommend EC for 2 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.20 Environmental Clearance for the Granite Building Stone Quarry of Sri. Jaison Jacob, Managing Director, M/s. VJJ Infrastructure Private Limited. for an area of 0.9965 Ha. at Block No. 30, Re-Sy. No. 429/1 in Kadanad Village, Meenachil Taluk, Kottayam (SIA/KL/MIN/474394/2024)

The Committee examined the additional documents submitted by the project proponent dated 15.10.2024. The additional documents included the outputs of a Drone based LiDAR survey conducted including Contour map with 1m interval, Digital Elevation model map (DEM), Slope Map and Ortho map of 5m Interval. The Committee observed that the site is located on a ridge on the eastern end of the hill. As per the Google imagery, the elevation of the ridge varies from 240-522m AMSL. Such land forms are important to be conserved from the point of microclimate of the region. Another quarry proposal in the same hill owned by Neeloor Aggregates Pvt Ltd. (SIA/KL/MIN/435475/2023) was rejected vide letter dated 18.10.2024. The Committee also noted that the terrain is highly fragile and falls under the moderate hazard zone. There are houses and infrastructure developed in both the side slopes and valley portions leading to increased environmental fragility. The Committee also examined the proposal in accordance with Judgement in IA No.1000 of 2003 dated 3rd June 2022 of the

Hon'ble Supreme Court of India regarding Precautionary Principle. **Based on detailed discussion, the Committee decided to invoke Precautionary Principle considering the environmental fragility of the site and its surroundings and decided to recommend rejection of the proposal.**

Item No.21 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Joby George, M/s. Rocky Aggregates, for an area of 2.1774 Ha at, Re- Sy No. 56/4, 58/3, 59/1, 59/2 in Bharananganam Village, Meenachil Taluk, Kottayam. (SIA/KL/MIN/484455/2024)**

As invited the Project Proponent Sri. Joby George, M/s. Rocky Aggregates and the Consultant Dr. A. Dhamodharan were present. The Consultant made the presentation. As per the mining plan, the total mineable reserve is 8,56,278.4 MT. The life of the quarry is 7 years. The site elevation varies from 103m to 133m above MSL and the depth to water table is 4-5m bgl. The project cost is 2,90,20,000/-. The nearest residential building is located at 105.1m from the proposed site. The Committee also noted the additional documents submitted by the project proponent. **Based on discussion, the Committee decided to entrust the team of Dr. K.N. Krishna Kumar and Dr. Mahesh Mohan for to evaluate the additional documents submitted and to conduct field inspection and report.**

Item No.22 **Environmental Clearance for the Residential cum Commercial Building and Construction Project of Sri. S. Krishnakumar, Managing Director, M/s Nikunjam Constructions Pvt. Ltd. at Sy.No. 396/13, 396/14, 396/15, 396/16-1, 396/17, 396/18, 396/4, 396/5-1, 396/6-1, 396/6-1-1-1, 396/6-1-1-2, 397/11, 397/7, 397/8, 397/9-1, 397/10, 397/12, 397/24 Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram District. (SIA/KL/INFRA2/484270/2024)**

As invited, the Project Proponent Sri. S. Krishnakumar, M/s Nikunjam Constructions Pvt. Ltd and the Consultant Sri. Jomon (M/s Environmental Engineers & Consultants Pvt. Ltd) were present. The Consultant made the presentation. The proposed project is for construction of Residential project consisting 2 blocks with Gr. + 14 floors, and the height is 45m. As per the application, the total Built-up area proposed is 35,001 sqm with 200 apartments. The total plot area is around 0.6519 ha (6,519 sqm). The total soil excavated to be is about 5,000 cu.m. The excavated topsoil is intended for landscaping (1,000 cu.m.), back filling (2,000 cu.m.) and internal road development (2,000 cu.m.) within the site. The highest contour of the proposed site is 37 lvl. (NE) and lowest contour is 31 lvl. (SW). The parking space proposed is for 232 Cars and 289 two wheelers. The FAR proposed is 26,074.53 sq.m. (@3.999). The Project cost is Rs. 80.2084 Crores. **Based on discussion, the Committee decided to entrust the team of Dr. R. Ajayakumar Varma and Dr. A. Bijukumar for conducting field inspection and report.**

Item No.23 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. K. I. Arumughan, Managing Director, M/s. Marath Enterprises & Crushers Pvt. Ltd. for an area of 4.1030 ha at Re-Survey No: 197/5, 197/6, 197/2, 369/1-2, 194/11-1, 194/4, 194/11, 194/14-2, 194/12, 194/10-1, 194/13, 369/1-1 in Koppam Village, Pattambi Taluk, Palakkad District. (SIA/KL/MIN/478503/2024)**

As invited, an authorised person Sri. Rajan MV, the Consultant Smt. Ananthitha of Ultratech and the RQP Sri. VK Roy were present. The consultant made the presentation. The ToR for the proposal was approved vide letter No. SIA/KL/MIN/443641/2023 dated 10.01.2024 as per the decision of 135th SEIAA meeting. As per the application, the total mineable reserve is 14,79,814.58 MT. The life of mine is 7 yrs. The elevation difference of the area is 115m to 150m AMSL. **After hearing the presentation, the Committee noted the following shortcomings for further appraisal of the project.**

1. CCR from IRO, MoEFFCC, Bangalore.
2. Depth to water table in the nearest dug well along with geo-tagged photograph of the well site, distance between the well and the project boundary and relative relief of the well site.
3. Revised Compensatory afforestation plan preferably in a public place, with geo-tagged photographs and species proposed to be planted should be submitted.
4. Clarification regarding the repetition or overlapping of survey numbers, if any, in the DEIAA issued EC for the adjacent site to the proposed project.
5. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP (C) No. 30737 of 2022 and 4655 of 2024 dated 19.04.2024.
6. EIA report including the response to the minutes of the Public Consultation conducted.

Based on discussion, the Committee decided to entrust Dr. A.N. Manoharan and Sri. S. Sheik Hyder Hussain for evaluation of the EIA report, field inspection and report.

Item No.24 **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Musthafa.P for an area of 0.3489 Ha at Block No.04, Re-Sy No. 98/3-12,98/3-15 in Aliparamba Village, Perinthalmanna Taluk, Malappuram. (SIA/KL/MIN/474534/2024)**

The Committee examined the additional documents submitted by the project proponent and found them satisfactory. As per the application, the total production is reported as 45973.75 MT. The life of mine is 2 years. The project cost is Rs.25 Lakhs. The elevation of the proposed area varies from 190m to 186m AMSL. The average depth of mining proposed is 5.5m bgl and the depth to water table reported is 8m bgl. The medium hazard zone is located at a distance of 2.5 Km and the high hazard zone is located at a distance of 21 Km from the project boundary. The cluster certificate dated 22.05.2024, states that there is no authorised Laterite Building Stone quarry in operation within 500 meter radius. The nearest building is located at a distance of 99.30 m. **Based on discussion, the Committee decided to**

recommend EC for 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.25 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Abdul Rasack. P for an area of 0.9850 Ha at Block No.2, Survey No: 467/10 in Payyanad Village, Eranad Taluk, Malappuram. (ADS Received) (SIA/KL/MIN/485788/2024)

As invited the Project Proponent Sri Abdul Rasack. P and the RQP Sri V.K. Roy were present. As per the presentation, the elevation of the site vary from 60 to 75m above MSL and the depth to water table is 8m BGL at 32m AMSL. As per the cluster certificate dated 13.06.2024, there is an authorised quarry of Manjeri City Infrastructures within 500m radius and indicates non cluster condition. The nearest built structure is a rubber storage shed at a distance of 106.0m from the project boundary. The mineable reserve estimated is 2,85,642.91 MT for a mine life of 3 years. The project cost is Rs.1.25 Crore. **After hearing the**

Presentation, the Committee decided to direct the PP to submit/revise the following shortcomings for further appraisal of the project.

1. Comprehensive EMP prepared by a NABET accredited consultant considering all the projects within the cluster of 500m radius
2. Revised Compensatory afforestation plan preferably in a public place, with geo-tagged photographs and species proposed to be planted.
3. NOC from the Irrigation Department in compliance with Section 40(2) of the Kerala Irrigation and Water Conservation Act, 2003 as ordered by the Hon'ble High Court of Kerala in WP (C) No. 30737 of 2022 and 4655 of 2024 dated 19.04.2024.

Item No.26 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Dominic for an area of 0.1643 Ha at Sy No. 133/1-2-2 in Edakkattuvayal Village, Kannayannoor Taluk, Ernakulam. (Presentation) (SIA/KL/MIN/480699/2024)

As invited, an authorised person Sri. Vinod and the RQP Sri. AG Korah were present. The RQP made the presentation. As per the application, the quantity proposed for mining is 8,215 MT. The life of mine is 1 year. The depth to water table is 4.3m below ground level and the depth of mine proposed is 2m below ground level. The elevation difference of the permit area varies from 63 m to 61 m AMSL. As per the form-2, the distance to the nearest habitation is 100.2 M from the project boundary. The distance to medium hazard zone is 38.20km from the proposed site. The High Hazard zone is located at a distance of 42.15 Km. **Based on discussion, the Committee decided to recommend EC for 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.27 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Jose, Kallarimyalil House, Chethicode P.O, Kanjiramattam, Ernakulam for an area of 0.2984 Ha at Sy No. 246/1 in Edakkattuvayal Village, Kanayannoor Taluk, Ernakulam. (Presentation) (SIA/KL/MIN/481778/2024)

As invited the Project Proponent Sri. Jose and the RQP Sri. AG Korah were present. The RQP made the presentation. As per the application, the reserve estimated is 14,920 MT for a mine life of 1 year. As per the presentation the depth to water table reported is 3.1 M from the ground level. The elevation difference of the area varies between 59 m to 48 m. **Based on discussion, the Committee decided to recommend EC for 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.28 **Environmental Clearance for the Project to extract Ordinary Earth by Sri. Benny C Cherian for an area of 0.7243 Ha at SurveyNo. 227/1pt, 227/2pt in Valakam Village, Muvattupuzha Taluk, Ernakulam. (SIA/KL/MIN/489897/2024)**

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the Comprehensive EMP. As per the documents submitted, the excavation shall follow the topography of the area with a maximum depth not exceeding 2m all along and across the applied area after leaving the buffer zone of 2m from the boundary. The Committee noted that the Comprehensive EMP submitted by the Proponent does not mention the impact due to combined activities and the mitigation measures considering the excavations in the adjacent land. **Therefore, based on discussion, the Committee decided to direct the Project Proponent to submit a Comprehensive EMP by considering the activities and impacts of all the Projects within the cluster of 500m radius.**

Item No.29 **Environmental Clearance for the Granite Building Stone Quarry of Sri. Gopalakrishnan.V, for an area of 0.9506 Ha at Block No.13, Re-Survey Nos.111/1,110/1,112/16,112/15,112/7,112/7-2,112/17-1,117/17-2,112/17-3,112/17 in Kalayapuram Village, Kottarakkara Taluk, Kollam District. (SIA/KL/MIN/462531/2024)**

The Committee examined the additional documents submitted by the project proponent dated 25/10/2024 and found them satisfactory. As per the documents submitted, the depth to water table is 5 m bgl. As per the NOC from the Irrigation Department dated 26.07.2024, no irrigation structures under Kallada Irrigation Project within 1km radius is reported. The NOC, however, directed to conduct mining activities only by protected blasting. As per the application, the total minable reserve is 1,34,482.5 MT. The life of mine is 2 years. The elevation difference of the area varies from 135m MSL to 105m MSL. The nearest house is located at 71.1 m from the proposed site. The cluster certificate dated 25.01.2024, states that there are no working quarries within the 500m radius. **Based on discussion, the Committee decided to recommend EC for 2 years subject to the following specific conditions in addition to the general conditions.**

1. A temporary wall of 5m height should be erected by connecting BP-1, BP-9 & BP-8 for the protection of the temple and auditorium adjacent to the site.
2. Protection fencing for the abandoned quarry should be provided before commencement of mining.
3. All the conditions in the NOC of the Irrigation Department are to be scrupulously followed.
4. The green belt should be initiated prior to the commencement of mining using indigenous species.
5. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. 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 prior to the commencement of mining by engaging an institution of national repute. The vibration monitoring should be done periodically and it should be included in the Half Yearly Compliance Report.
10. A temporary wall of 5m height should be erected at appropriate locations on the boundary to avoid disturbance and nuisance to the nearby residents.
11. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
12. Implementation of CER Plan should be done during the first two years of the EC period and its operation and maintenance should be done till the completion of mine closure plan.
13. The haulage road should be provided with sprinkling facility to prevent dust pollution.
14. 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).
15. 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.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm).
17. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
18. 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

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

Item No.30 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Wincent A for an area of 1.1550 Ha at Block no. 18, re-survey no: 202/1-2, 202/1-3-1, 202/5, 202/6, 202/7, 202/7-1, 202/8, 202/13, 202/13-1, 202/14, 232/10 in Anadu Village, Nedumangad Taluk, Thiruvananthapuram District. (SIA/KL/MIN/477368/2024)**

As invited the Project Proponent Sri. Wincent A, and the RQP Sri. V.K Roy were present. The RQP made the presentation. As per the presentation, the average soil thickness is ranging from 2.0 to 2.10 m. The NOC submitted from the Executive Engineer, Irrigation Division, Thiruvananthapuram dated 05.10.2024 states that no irrigation structures are located within 1km radius of the proposed site. The total mineable reserve reported is 3,00,200 MT for 5 years. The distance to the nearest house is 55m. The depth to water table is 6m below ground level at 122 m AMSL. The elevation difference of the site varies between 170m to 145m AMSL. The Project cost is Rs. 1.77 Crore. **Based on discussion, the Committee decided to entrust the team of Dr. R. Ajayakumar Varma and Dr. A. Bijukumar to conduct field inspection and report. Smt. Sreeja Raj SR (Environmental Officer) is also requested to join the team for field inspection.**

Item No.31 **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Moosakutty Haji. M.K, Authorized Signatory, M/s. Rahmath Granite Crushers for an area of 3.85 Ha at Sy Nos: 168/2-2, 168/2-3, 167 in Perakamanna Village & Re-Sy Nos. 4/1, 7/3 in Karakunnu Village, Ernad Taluk, Malapuram. (SIA/KL/MIN/446941/2023)**

As invited, the authorised person Sri. Jafarali Mannarakkunnen and the Consultant Sri. Cyriac Joseph, Global Environment & Mining Services were present. The Consultant made the presentation. As per the application, the EC was issued from DEIAA vide letter No. DEIAA/MAL/EC/006/2016 dated 19.06.2017 and the validity of the same expired on 18.06.2022. The mine lease deed for the proposed quarry was granted on 25.07.2017 for 10 years. The Scheme of mining was prepared for a period of 2022-23 to 2026-27 for 5 years. The PP submitted CCR dated 05.02.2024. As per the Cluster certificate dated 28.06.2024, there are no authorised quarries within 500m radius. The elevation of the proposed area varies from 72.3m to 22.6m AMSL. The Proponent has not submitted the original mine plan. **Based on discussion, the Committee decided to entrust the team of Dr. R. Ajayakumar Varma and Sri. Sheik Hyder Hussain for field inspection and report.**

Item No.32 Environmental Clearance application for the Laterite Building Stone Quarry Project of Sri. Subramanian K, for an area of 0.8093 Ha at Survey No: 65 in Anakara Village, Pattambi Taluk, Palakkad (Proposal No. SIA/KL/MIN/483628/2024)

The Committee examined the additional documents submitted by the project proponent and found them satisfactory except the CER and drainage plan. **Hence, the Committee decided to direct the PP to revise and resubmit the following additional documents.**

1. Revised CER as per the guideline published on the SEIAA website.
2. Revised drainage plan to prevent any stagnation in the mine pit and considering the terrain slope

Item No.33 Environmental Clearance for the Proposed Laterite Building Stone quarry of Muhammed Iqbal for an area of 0.1942 Hectares. in Block no:42 Re-Survey Nos. 35/868 (35/2B old) of Panappuzha Village, Payyannur Taluk, Kannur District, Kerala (SIA/KL/MIN/493918/2024)

As invited, the project proponent Sri. Muhammed Iqbal and the RQP Sri. V.K Roy were present. The RQP made the presentation. As per the application, the depth to water table is at 9m below ground level at 104m AMSL. The elevation difference varies between 111m to 113m AMSL. The mine depth proposed is 6m from the ground level. The quantity proposed for mining is 26,702 MT. The life of mine is 2 years. The nearest building is located at a distance of 47.3m from the project boundary. The project cost is Rs. 9,49,600/-. **Based on discussion, the Committee decided to recommend EC for 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.34 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Abdul Razack for an area of 0.4045 Ha at Block no: 14, Survey No. 38/3-4 in Muthuvallur Village, Kondotty Taluk, Malappuram. (SIA/KL/MIN/493633/2024)

As invited the project proponent Sri. Abdul Razack and the RQP Sri. V.K Roy were present. The RQP made the presentation. As per the application, the quantity proposed for mining is 55,619 MT (18,535 MT+18,535 MT+18,549 MT). The mineable reserve is reported as 44,495 MT. The depth to water table is 10m bgl at 146m AMSL. The life of mine is 3 years. As per the mining plan, the depth of mining proposed is 6m from the original ground level and the average top soil thickness is 0.5m. The medium hazard zone is located at a distance of 1.71 Km. As per the presentation, the nearest house is located 299.3 m from the project boundary. **Based on discussion, the Committee decided to recommend EC for 3 years subject to the following specific conditions in addition to the general conditions.**

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

11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.35 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Subair P for an area of 0.7921 Ha at Block no: 18, Re-Survey Nos. 478/4-1-2, 478/4-1-3 in Vazhakkad Village, Kondotty Taluk, Malappuram. (SIA/KL/MIN/494508/2024)

As invited the project proponent Sri. Subair P and the RQP Sri. V.K Roy were present. The RQP made the presentation. As per the application, the quantity proposed for mining is 1,08,914 MT and the life of the mine is 3 years. The estimated project cost is Rs. 21,00,893/-. The proposed area falls under moderate hazard zone and the high hazard zone is located at a distance of 12.96 Km. The depth to water table is reported as 10m bgl at 118 m AMSL. The elevation of the area varies between 164m AMSL to 182m AMSL. As per the mining plan the mining activity is proposed for a depth of 6m from the original ground level with an average soil thickness of 0.5m. As directed, the Proponent submitted Comprehensive EMP. The project area falls in the medium hazard zone and therefore, it is necessary to submit NOC from the District Level Crisis Management Group for mining. **Based on discussion, the Committee decided to recommend EC for 3 years subject to the submission of NOC from the District Level Crisis Management Group for mining and 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 and maintained during the rest of the EC period.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.36 Environmental Clearance for the Granite Building Stone Quarry of Sri. M.M. Thomas, M/s Wayanad Metals for an area of 1.2552 Ha at Re- Sy No. 545/4, 546/14, 546/11, 546/5, 546/4, 546/2, 547/3 in Vengapally Village, Vythiri Taluk, Wayanad. (SIA/KL/MIN/466738/2024)

As invited, an authorised person Mr. Peter TV nominated by Sri. M.M. Thomas, M/s Wayanad Metals and the Consultant Dr. A Dhamodharan were present. The Consultant made the presentation. The total minable reserve reported is 3,14,057.4 MT for a mine life of 5 years. The elevation of the area varies between 787m to 769m AMSL. As per the presentation the nearest building is located at a distance of 100m from the Project boundary. The depth to the water table is reported as 6-8 m below the ground level. **Based on discussion, the Committee decided to entrust the team of Dr. R. Ajayakumar Varma and Sri. Sheik Hyder Hussain for field inspection and report.**

Item No.37 Environmental Clearance for the Residential cum Commercial Building and Construction project of Kerala State Housing Board at 1176/1-2, 1176/2-2 & 2498, Marine Drive, Ernakulam Village, Kochi Municipal Corporation, Kanayannur Taluk, Ernakulam.

The Committee discussed the Field Inspection Report Conducted on 26.10.2024 and noted the following salient aspects in the field.

- a) The land use of the project site is classified as 'Dry land'
- b) The soil profile is primarily of Clayey silt
- c) 5,800m³ ordinary earth is required for filling which is to be sourced from external mine sites located within 20 kms from the project site (Act – 1.8)
- d) Detailed layout and elevation plan is not seen submitted.

- e) Parking facility for four wheelers only has been provided in the application. Parking space for two wheelers and for vehicles of disabled persons is not mentioned
- f) No mitigative measures on the impact on Mangalavanam Bird Sanctuary (at a distance of 220m), being the only green space in the heart of Cochin city, is proposed.
- g) 845 trees are proposed in the landscape area. The total area developed is 1.2809ha. The vegetation cover in the entire area is to be removed for development. Hence planting in public/Govt lands is necessary including mangrove vegetation. Species may be chosen in consultation with Social Forestry since some of the species mentioned in the report will not thrive in high water table areas.
- h) Due to the high water table and being clayey silt, excavated earth is to be stored with adequate protection

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

- 1) Clarification regarding the nature of the land.
- 2) Revised EMP incorporating mitigation measures for the impacts identified on the nearby Protected Area along with revised CER activities in accordance with the guidelines uploaded in the SEIAA website
- 3) Consent from KWA for the supply of required quantity of fresh water
- 4) Detailed layout mentioning all the activities proposed and Elevation plan
- 5) Details of parking facility including two wheelers and vehicles of disabled persons taking into consideration the projected number of visitors to the project site upon its completion
- 6) Clarification on the requirement of NOC from the Airport Authority since the Naval Base Airport is at a distance of 4km
- 7) Charging facility for EVs
- 8) Afforestation plan in Public/Govt lands for compensating the removal of entire green cover in the project area for development in consultation with Social Forestry wing
- 9) Clarification regarding the discharge of water to drain during high tide since it is connecting to the canal
- 10) Plan for protecting the excavated earth ($12,365\text{m}^3$) stored in the adjacent KSHB property
- 11) Details of measures to be adopted to desilt the runoff water from the site before draining it to the public drain-
- 12) Details regarding the monitoring of the quality of water to be drained to the public drain.
- 13) Clarification regarding the capacity of the public drains to accommodate the water discharged from the project site during high tide.

Item No.38 **ToR application for The Proposed Granite Building Stone Quarry of M/s BE ONE ASSOCIATES (Represented by its Managing Partner, Mr. Eldhose K Varghese) is situated at Re-survey nos: 46/1, 46/2, 46/3, 47, 48/1- 1, 48/1, 48/2-1 over an area of 3.8510 ha in Thalanadu Village, Meenachil Taluk, Kottayam. (SIA/KL/MIN/497389/2024)**

The Committee examined the ToR application and discussed it in detail. The total mineable reserve is 13,67,455 MT. The life of mine proposed is 8 years. The elevation of the area varies between 160m to 95m AMSL. The distance to medium hazard zone is 163m from the proposed site. The high hazard zone is located at a distance of 1.1km from the proposed area. The project cost is Rs. 3,62,49,960/-. Nearest habitation is 105.4m from the lease boundary. As per the Cluster Certificate dated 21.08.2024, there is another quarry of M/s Deccan Rocks adjacent to the proposed area, and the quarrying operations are not yet commenced. The EC for the quarry of M/s Deccan Rocks with an area of area of 3.9736 Ha. in the cluster was issued dated 03/05/2023. Hence altogether the total area comes to more than 5ha. **Based on discussions, the Committee decided to recommend Standard ToR under Category 1 (a) Mining of Minerals with the following additional studies:**

1. Impact on the hydrology of the watershed in which the site is located and mitigation measures to conserve and enhance the natural resources in the watershed
2. Landslide susceptibility of the area considering the slope characteristics, soil thickness, drainage aspects and structural characteristics.

Item No.39 **ToR application for the Proposed Building Stone (Quarry, Minor Mineral Mining) project of Mr. Jovin George at Re-Survey No. 275/1A, Thripangottur Village, Thalassery Taluk, Kannur District, 4.5180 hectares.(SIA/KL/MIN/498385/2024)**

The Committee examined the ToR application and discussed it in detail. The total mineable reserve reported is 32,12,325 MT. The life of mine proposed is 11 years. As per the contour plan, the highest elevation of the lease area is 450 m MSL and lowest is 350 m MSL. As per the Cluster Certificate dated 29.08.2024, there is one quarry for an area of 3.7556 Ha within 500m radius owned by the same PP. Altogether the area comes to more than 5 Ha. As per the PFR the project cost is given by Rs. 10.745 Crores. The nearest habitation is located at a distance of 157 m from the site. **Based on discussions, the Committee decided to recommend Standard ToR under Category 1 (a) Mining of Minerals with the following additional studies:**

1. Impact on the hydrology of the watershed in which the site is located and mitigation measures to conserve and enhance the natural resources in the watershed
2. Landslide susceptibility of the area considering the slope characteristics, soil thickness, drainage aspects and structural characteristics.

The Committee decided to convene its 174th meeting on 22nd November 2024 (Online) and the 175th SEAC meeting on 09th, 10th, & 11th December 2024.

The meeting concluded at 5 pm with a vote of thanks to the Chair.

Sd/-
Suneel Pamidi, IFS
Member Secretary, SEAC

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

LIST OF PARTICIPANTS:

Sl.No.	Name	04.11.2024	05.11.2024	06.11.2024
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	X
6.	Dr. C.C. Harilal	X	✓	✓
7.	Dr.K.VasudevanPillai	✓	✓	✓
8.	Dr. Mahesh Mohan	✓	✓	✓
9.	Dr. K.N. Krishna Kumar	✓	✓	✓
10.	Sri. V. Gopinathan	X	X	X
11.	Dr. A.V. Raghu	✓	✓	✓
12.	Dr. N. Ajithkumar	X	X	X
13.	Suneel Pamidi (Secretary)	✓	✓	X