

**MINUTES OF THE 170<sup>th</sup> MEETING OF THE STATE LEVEL EXPERT APPRAISAL  
COMMITTEE (SEAC), KERALA MEETING HELD ON 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> SEPTEMBER  
2024, IN THE CONFERENCE HALL, STATE ENVIRONMENT IMPACT  
ASSESSMENT AUTHORITY, KERALA**

The meeting started at 10.00 AM on 3<sup>rd</sup> September 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. 170.01**      **Noting of the minutes of the 169<sup>th</sup> meeting of the SEAC held on 7<sup>th</sup>, 8<sup>th</sup> & 9<sup>th</sup> August 2024.**

In the 169<sup>th</sup> meeting of SEAC, the presentation of the proposal in item no 3 of Part 1 of Parivesh Version 2 “Environmental Clearance for the Expansion of the Existing Residential Building Construction project, M/s Heera Construction Company Pvt. Ltd. of Sri Tiju Varghese Chacko at Re-Survey Nos. 4 & 2, in Thycaud Village, Thiruvananthapuram Taluk, Thiruvananthapuram District. (SIA/KL/INFRA2/481230/2024) was chaired by Dr. N. Ajithkumar. The minutes of the 169<sup>th</sup> meeting for that project are amended by adding the above sentence.

**Item No. 170.02**      **Complaint against the quarries in Mudakoimala, Vazhakkad Village, Kondotty Taluk, Malappuram.  
(File No.2897/EC1/2023/SEIAA)**

As intimated by the Committee Sri. Abu Thahir, Sri. Ismail K.P and Sri. Krishnan has attended the hearing. The Committee first heard the Petitioners, Sri. Abu Thahir and Sri. Ismail K.P as per the judgment of the Hon’ble High Court of Kerala dated 26.06.2024 in WP(C) No.22204/2024 and WP(C) No.22235/2024. During the hearing, Petitioners intimated that they had not committed any violation of EC conditions. The petitioners submitted the hearing note dated 04/09/2024 in writing. The petitioners intimated that they are ready to construct and maintain roads of adequate width but the local people and the Authorities of the Grama Panchayath are raising objections. The Petitioners also stated that there are 15 quarries are functioning without licenses. Sri. Krishnan intimated that the EC for his project had expired and is not conducting any mining in the area. The Petitioners were informed about the decision of the Committee to recommend two additional specific conditions in addition to the specific conditions incorporated in the environmental clearance order. **Based on discussion, the Committee decided to recommend the following three decisions.**

- 1. The EC issued for the Laterite Building Stone Quarry proposal of Sri. Abu Thahir as per proposal No. SIA/KL/MIN/174851/2020 SIA/KL/MIN/408697/2022 and Sri. Ismail K. P. as per proposal No. SIA/KL/MIN/156633/2020 may be amended by adding the following two additional specific conditions.**

- a) Mining should be continued after maintaining the road with adequate width

and drainage facility per standard specifications.

- b) Mining should be carried out only after evolving and implementing a comprehensive drainage plan for the entire area, collectively by the project proponents, and a site-specific drainage plan for each proposal in consonance with the comprehensive drainage plan to ensure proper drainage to avoid water logging.
- 2. The concerned Grama Panchayat may be advised to permit the project proponents to construct and maintain the haulage road and comprehensive drainage system at their expense.**
- 3. The Mining and Geology Department may be informed to take appropriate action against the illegal quarry owners and implement the mine closure plan.**

**Item No. 170.03**      **Environmental Clearance for Extending the validity of EC issued to Sri. Joby Joseph at Re Survey No: 433/2 (Old Sy. No. 26/1) in Kaduthuruthi Village, Vaikom Taluk, Kottayam, Kerala. (SIA/KL/MIN/286560/2022, 2565/A2/2019/SEIAA)**

The Committee examined the proposal and observed that the 135<sup>th</sup> SEAC recommended rejection of the proposal due to non-compliance of the distance norms. The rejection order was issued on 06.02.2023 as per the decision of the 122<sup>nd</sup> SEIAA meeting. The 157<sup>th</sup> SEAC meeting reconsidered the Proposal as per the decision of the 136<sup>th</sup> SEIAA Meeting on the basis of the judgment dated 04. 12. 2023 in WP(C) No. 10342 of 2023 and the NOC obtained from the Church Authorities and the PWD. On further examination, the SEAC recommended extending the validity of EC to a further period of 6 months subject to specific conditions. As per the direction of the 146<sup>th</sup> SEIAA meeting, the Committee reviewed the matter with the report of the District Geologist, Kottayam dated 20.04.2024. The District Geologist informed that there was over-extraction after the period of permit. The Mining and Geology Department issued a Demand Notice for an amount of Rs. 35200.00/- as royalty and compounding fee and due to non-remittance of the same, the Mining & Geology Department has decided to enforce revenue recovery. **In the circumstance, the Committee decided to revise the decision taken in the 157<sup>th</sup> SEAC meeting and recommend to the SEIAA to reject the application.**

**Item No. 170.04**      **Environmental Clearance issued from SEIAA, for the granite building stone quarry project of Sri. Shaji.S at Chadayamangalam Village, Kottarakara Taluk, Kollam-Judgment in WP (C) 11106/2020 - Revalidation of EC. (File No. 752/SEIAA/KL/301/2015). (1402/EC6/2024/SEIAA)**

The Committee re-examined the matter in detail as per the decision of the 146<sup>th</sup> SEIAA meeting. The Committee observed that in the 127<sup>th</sup> SEAC meeting held on 28<sup>th</sup> to 30<sup>th</sup> April 2022 recommended EC for 12 years. As per the approved mining plan, the life of the mine is 14 years. As per S.O. No. 1807(E) dated 12/04/2022 the validity of EC shall stand

automatically extend to the life of mine. **Hence, the EC may be amended with life of mine as 14 years instead of 12 years.**

**Item No. 170.05**      **Complaint on the EC issued to the granite building stone quarry of Sri. V. J. Chacko, Managing Partner, M/s. Parlikkad Granites in Wadakkancherry Village, Thalappilly Taluk, Thrissur District. (SIA/KL/MIN/45120/2019, 1526/EC2/2019/SEIAA)**

The Committee verified the Hearing Note submitted by the Second respondent Sri. V. J. Chacko and the complainant Sri. Vineesh E.R. As per the hearing note submitted by the complainant the EC issued to Sri. V. J. Chacko with Identification No. EC22B001KL185350 is without proper assessment. The Committee also examined the facts and the figures submitted by the Project proponent. **The Committee decided to entrust Dr. R. Ajayakumar Varma and Sri. S. Sheik Hyder Hussain to conduct field inspection and report.**

**Item No. 170.06**      **Environmental Clearance for the Granite Building Stone Quarry of Shri. Jimmy Jose, for an area of 0.9950 Ha at Sy. No. 318/2/2, 318/2/3 in Venganellur Village, Thalappilly Taluk of Thrissur (SIA/KL/MIN/229494/2021, 2029/EC6/2022/SEIAA)**

The Committee verified the additional documents and found them satisfactory. The Committee examined the legal opinion of the Standing Counsel SEIAA, but could not arrive at a conclusion. It is noticed that the legal opinion is based on an assumption of Standing Counsel regarding an affidavit that he has not seen. The Committee examined the environmental feasibility of mining in the proposed area and found it feasible. As per the Approved Mining Plan, the total mineable reserve is 2,54,595 MT, the highest elevation is 76m above MSL and the lowest elevation is 62m above MSL. The ultimate mine depth proposed is 35m above MSL, but the depth to the water table projected to the site is 50m above MSL. The life of mine is 3 years. As per the additional documents submitted dated 20.08.2024, the total project cost is 120 lakhs. **Therefore, considering the technical feasibility alone, the Committee decided to recommend EC for 3 years subject to the direction of the Hon'ble Court and other legal issues raised by the complainant and the legal opinion provided by the standing Counsel. The following specific conditions shall be stipulated in addition to General Conditions if and when a decision on EC is taken by the Authority.**

1. Therefore, the ultimate mine depth should be limited to 52m above MSL. The number of benches will be limited to 4 instead of 7.
2. The coppice growth in the buffer zone such as Vatta (*Macranga peltata*), Ezhilampala (*Alstonia scholaris*), Paanal (*Glycosmis pentaphylla*), etc. should be protected and retained as such.
3. Contour bunding with a height of 60 to 75cm across the slope has to be provided at 3m intervals using random rubble available in the area. Planting of indigenous species shall be carried out from the 1<sup>st</sup> year onwards along the bunds and is to be

- protected throughout the season if needed with watering. Progress of the plant growth should be included in the HYCR.
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. 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.170.07**      **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ravi Paleri, Proprietor, M/s Surya Stone Crusher & Hollow Bricks at Re. Sy. No.275/1A pt, in Triprangottur Village, Thalassery Taluk, Kannur (SIA/KL/MIN/126728/2019; 1782/EC4/2020/SEIAA)**

The Committee examined the hearing note submitted by the project proponent vide e-mail dated 15/07/2024. As per the hearing note, the site is situated at a mid-terrain of a hill with elevation differences of 495 to 545 m above MSL. The proposed area is dominated by exposed rock. The average slope is less than 25.38 degrees. As per the hearing note, the project proponent requested to consider the following.

1. Since the project area falls in the Medium Hazard Zone, the proponent is ready to apply for the NOC from the District Level Crisis Management Group.
2. Only 143.94 MT of production is proposed on a daily basis. The maximum no of holes per blast round shall be 10 and the maximum charge per blast round shall be limited to less than 4.0 kg per blast round.
3. Proponent is ready to conduct GIS and Geo-Technical based Landslide Hazard Assessment for the region
4. The mined-out pit at the western side of the project area having 15m height will be managed by the proposed mining activity.

The Committee observed that the road to the proposed site is narrow and the site is located on the very steep slope of the flank of a hill. The Committee noted that the area is environmentally very fragile and necessitate precaution. **Since the project proponent desires to submit a study report, the Committee decided to give an opportunity for submitting the same within one month and take a final decision after one month.**

**Item No.170.08**      **Judgment in NGT Original Application No. 88 of 2017 (SZ) dated 26<sup>th</sup> October, 2021 filed by Sri. George Isaac, against the quarrying operations of M/s Slab Aggregates, owned by Sri. Joseph John – Revalidation of EC. (File No: 519/SEIAA/EC3/3823/14)**

The Committee examined the request from KSPCB vide letter dated 31.08.2024, to nominate a member for the Committee to assess remediation cost as per the order of the Hon'ble NGT in the Appeal 88 of 2017. The Hon'ble NGT SZ in Appeal No. 88 of 2017 directed the Kerala State Pollution Control Board to constitute a Committee to assess the remediation cost for restoring the project site where illegal mining has been committed. **The Committee decided**

to depute the Environmental Officer, SEIAA as a member of the Committee for assessing the damage.

**Item No. 147.09**      **Reconsideration of rejected Environmental Clearance proposal for the mining of Granite Building Stone Quarry project of Sri. Mathew, M/s Alacode Granites at Survey No 292/1A in Vellad Village, Thaliparamba Taluk, Kannur –Orders of the Kerala State Minority Commission (File No. 1277(A)/EC2/2019/SEIAA)**

The Committee examined the order of the Minority Commission dated 27.06.2024. Vide its orders the Commission directed SEAC to issue EC within one month from the date of receipt of the order. The Committee noticed that as per the EIA Notification 2006, the SEAC is mandated with only appraisal of the projects, based on which it can recommend to the regulatory authority (State Environmental Impact Assessment Authority) to issue or reject EC for the project based on its environmental feasibility. As the issuance of EC is not its mandate, the SEAC is unable to comply with the orders of the Hon'ble Commission. The Committee also noticed that as per Sec 22, 'Bar of the jurisdiction' of the Act, it is stated that "no civil court shall have jurisdiction to entertain any suit or proceeding in respect of anything done, action taken or order or direction issued by the Central Government or any other authority or officer in pursuance of any power conferred by or in relation to its or his functions under this Act". The SEAC is constituted in exercise of the powers conferred by sub-section (3) of section 3 of the Environment (Protection) Act, 1986 (29 of 1986) and in pursuance of the notification of the Government of India, published in the Gazette of India, Extraordinary, Part II, Section 3, Sub section (ii) in the erstwhile Ministry of Environment and Forests, vide number S.O.1533(E), dated the 14<sup>th</sup> September, 2006. **The Committee decided to bring the matter before the Authority for further necessary actions.**

#### **PARIVESH FILES (Ver-1)**

#### **CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE**

#### **PART-1**

**Item No.01**      **Environmental Clearance for the existing Mild Steel Re-Rolling mill by Smt. Dirsha K Mohammed, M/s. Gasha Steels Pvt. Ltd. at Survey No. 461(part), 462(part), 463(part), 866(part), 872(part) in Pudussery village, Palakkad Taluk, Palakkad (SIA/KL/IND1/443094/2023, 2217/EC1/2023/SEIAA)**

The Committee examined the additional documents submitted and found them satisfactory. As per the additional documents, there are several houses near the proposed project. As per the application, the plot area is 2.0309 ha (5.0184 acres). The project cost is Rs. 2047 lakhs. The capacity of the plant is 290 MTPD. The nearest built structure is an adjacent industry shed at a distance of 20m. The water requirement required for cooling tower, domestic, and gardening purposes is 132 KLD. The Valayar River is located at a distance of 0.63km and

Koraiyar River is at a distance of 0.41km from the proposed site. The ToR for the Proposal SIA/KL/IND1/418581/2023 was approved vide letter dated 09.05.2023. The EIA report of the proposal was presented in the 158<sup>th</sup> SEAC meeting. **Based on the discussion the Committee decided to recommend EC for 10 years as per the SO 3250(E) dated 20.07.2022 with the following specific conditions.**

1. Green belt should be developed as per the plan and geotagged photographs of the progress of green belt development should be submitted along with HYCR.
2. The survival rate of the planted trees should be monitored regularly and reported in the HYCR
3. Rainwater harvesting should be strengthened as per the plan.
4. The concentration of PM2.5, PM10, and Noise levels should be monitored regularly up to 500m radius of the factory and reported in the HYCR.
5. Online temperature sensors should be installed at various temperature-sensitive locations and the data monitored and log book maintained. The daily maximum and minimum temperature monitored should be reported in the HYCR.
6. The workers should be provided with proper protective equipment and safeguard measures for dust and noise pollution and heat stress.
7. The roofs of new buildings should be used for tapping and using more solar energy.
8. Regular occupational health check-ups and safety drills should be conducted and the details should be provided in the HYCR.
9. Regular monitoring of well within and nearest to the factory premises should be monitored for water level and water quality, the latter as per PCB norms and data provided in the HYCR.
10. The CER proposed should be implemented within the first two years and maintained on a regular basis.

**Item No.02      Environmental Clearance for the Proposed Residential 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 to be developed by M/s Shanoor Projects & Realtors Pvt. Ltd. (SIA/KL/INFRA2/453077/2023, 2478/EC3/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report and noted the following salient aspects in the field.

1. Possibility for rainwater harvesting in underground tank
2. Possibility for harnessing solar energy for meeting part of the power requirement.
3. Compensatory Afforestation Plan, for ensuring greenery in the area
4. Inadequacy of the EMP cost proposed (6.81%) for addressing all mitigation measures.
5. Details of parking facilities for vehicles as per KMBR provisions.
6. There is no excess excavated soil / earth.

**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. Revised site-specific EMP incorporating CER as per guideline published in the website of SEIAA and revised cost estimate.
2. Details of water requirement, source of water, sustainable yield of water source along with detailed water balance flow chart
3. Floor Area Ratio and its permissibility as per rules
4. Details with reliable cost estimates of the proposed Tertiary Treatment and Disinfection method proposed for sewage treatment in order to ensure efficient treatment and for ensuring its reuse / recycle potential as targeted in the proposal.
5. Details / adequacy / operational sustainability of Biobin alone and provide possibility of combining OWC / biogas plant, for ensuring operational sustainability of Biodegradable waste.
6. Revised storm water management plan, including possibility of providing open pond type rain water harvesting system as there is sufficient open land available, and for replenishing of local ground water as well as for the storage of rainwater for reuse.
7. Possibility and plan for enhanced solar power generation and its utilization
8. Detailed Compensatory Afforestation Plan, Green belt plan and Avenue tree planting
9. Details of proposed parking and additional parking requirements as per the KMBR.
10. Plan for EV charging facility in parking areas

**Item No.03      Environmental Clearance for the Granite Building Stone Quarry, M/s. Crystal Granites for an area of 4.4601 Ha in Re-Survey Nos. 178/12pt, 178/11pt, 178/13pt, 168/6pt, 168/9pt, 168/10, 168/11pt, 183pt, 175/1pt, 177/1pt, 177/2pt & 178/1pt, at Pallickal Village, Block No.-26 of Varkala Taluk, Thiruvananthapuram.**  
**(SIA/KL/MIN/132461/2019, 1572/EC1/2019/SEIAA)**

The Committee scrutinized the additional documents submitted by the project proponent and found them satisfactory. As per the application, the targeted production is 10,50,305 MT. The revised project cost is Rs. 2.82 Crore. The life of mine is about 10 years. The highest and lowest elevations are 85m and 40m respectively. The depth to water table is 3-5m bgl. The highest elevation of the proposed area is 85m AMSL and the lowest elevation is 40m AMSL. The high hazard zone is at a distance of 32.28km. The Medium hazard zone is located at a distance of 17.5km. As per the Cluster certificate dated 21.12.2020, there are no other quarries except one abandoned quarry within 500m radius. As per the additional documents submitted, the PP clarified that there are 3 built structures within 50m radius. **Based on discussion, the Committee decided to recommend EC for 10 years subject to the following Specific Conditions. The EC may be issued after the submission of NOC from**



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

1. Depth of mining should be limited to 40m AMSL so as to confine the mining to the terrain slope and prevent any mine pit development
2. A buffer distance of 50m should be maintained between the project boundary and all the built structures near the proposed site.
3. A temporary wall of 5m height between the P1, and P2, P16, P17, P18, P20, P22, P23 and P24m should be erected prior to the commencement of mining to avoid disturbance and nuisance to the nearby residences.
4. The green belt should be initiated prior to the commencement of mining using indigenous species.
5. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees in the land owned by the proponent, at the lower portion of the proposed site.
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. 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.04      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Ashraf.P for an area of 2.3203 Ha at Re.Sy.No.172 in Kodyathur Village, Kozhikode Taluk, Kozhikode (SIA/KL/MIN/138725/2020 1653/EC4/2020/SEIAA)**

The 163<sup>rd</sup> meeting of the Committee decided to recommend EC for a period of 10 years subject to the submission of the approval of the District Level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05-2014 as part of the mining area falls in the moderate hazard zone and stipulated 18 specific conditions in addition to the general conditions. The 142<sup>nd</sup> meeting of the Authority referred the proposal back to SEAC to re-examine the proposal regarding the applicability of EIA studies considering the fragility of the area and directing the Project Proponent to submit the NOC from the District Level Crisis Management Group for mining constituted vide G.O. (Rt) No. 542/14/ID dated 26.05.2014. The Committee re-examined the proposal in detail and observed that during the field inspection, the cluster condition has been verified and noted that there is no cluster situation. The evaluation of the environmental aspects carried out during the field inspection did not suggest any critical environmental scenario other than the steep nature of the slope of the site. As per the proposal, the mining will be confined to the slope and there will not be any mine pit generated. Further, a protective wall connecting BP1 and BP12 can be suggested to prevent any material spillage down-slope. The Project Proponent vide letter dated 20.06.2024 intimated that the project is under B2 category and doesn't attract cluster situation and requested to process the EC application devoid of EIA and consider the proposal only after granting NOC from District Level Crisis Management Committee. **Therefore, based on discussions, the Committee decided to direct the Project Proponent to 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
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
3. Latest cluster certificate
4. Comprehensive EMP prepared by an NABET accredited agency considering all the quarries in the vicinity of the site, say within 1 km radius of the site.

**Item No.05**      **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 the proposal and the revised EIA report submitted by the project Proponent. The Committee noted that the PP has not submitted the 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. **Based on discussions, the Committee decided to entrust Dr. R. Ajayakumar Varma for detailed evaluation of the revised EIA report and direct the PP 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.06**      **Environmental Clearance for Granite Building Stone Quarry of Sri. Sajeev. M.A for an area of 1.8592 Ha at Survey No. 959/1L, 959/1L2, 959/1L-8 in Kothamangalam Village, Kothamangalam Taluk, Ernakulam. (SIA/KL/MIN/269321/2022, 2174/EC3/2022/SEIAA)**

The Committee examined the additional documents submitted by the Project Proponent and found them satisfactory. The Committee verified the notice of Adv. Gigi Peter dated 24.08.2024, in which it is stated that the dispute between the client and the project proponent is amicably settled and both parties signed a mediation agreement in O.S. 155/2023 of Hon'ble Munsiff Court Muvattupuzha and the suit was decreed on 22.8.2024. **But the copy of the order of the Hon. Court is not found attached.** The Advocate stated that the clients are withdrawing the above referred complaints unconditionally and the clients have no objection to grant Licenses/permits to project proponent. As per the application, the minable reserve is 7,15,225 MT. The life of mine is 5 years. As per the presentation, the revised project cost is 507 Lakh. The highest and lowest elevation is 99 m and 67m respectively. As per the Field inspection report dated 03.11.2023, distance to moderate hazard zone is 2.8km. As per the Cluster Certificate dated 01.04.2022, there are no other quarries in operation within 500m radius. As per the additional documents submitted 27.05.2024, the depth to water table is 1-8 bgl. The PP submitted the proof application for Wildlife Clearance since Thattekkad Bird Sanctuary is within 10km radius. **Based on discussions, the Committee decided that the proposal is feasible from the environmental point of view subject to the direction of the Hon. Court. In the circumstance, the Committee decided to recommend EC for a period of 5 years subject to the submission of the copy of order of the Hon. Court dated 22.8.2024 as stated in the notice of the Advocate dated 24.8.2024 and also subject to the following specific conditions in addition to the general conditions. The EC**

**may be issued after 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.**

1. Depth of mining should be limited to 65m above MSL.
2. The green belt should be initiated prior to the commencement of mining using indigenous species.
3. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees on available land owned by the proponent, at the lower portion of the land.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
5. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
6. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
7. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay 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 channels 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.07**      **Environmental Clearance for Granite Building Stone Quarry project of M/s Jesus Granites Pvt. Ltd. for an area of 1.4781 Hectare at Survey No. 911/1-5, 916/3, 916/3-2, 916/3-3, 916/3-4 in Kallorkad Village, Muvattupzha Taluk, Ernakulam.**  
**(SIA/KL/MIN/276958/2022, 2049/EC3/2022/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 26.06.2024 and noted the water level in the nearby old quarry is at 35m above MSL. No seepage was found along the sides of the quarry. Hence the quarrying activity can go up to 35m above MSL. **Based on the above observations and discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Compensatory afforestation plan
2. OB dump plan
3. Modified CER as per the OM
4. Comprehensive EMP (file no. 276958 and 288750)
5. Revised Project Cost
6. Detailed Traffic study and based transportation plan to avoid traffic congestions
7. Drainage plan with connection to natural stream
8. Road development plan
9. Energy conservation plan
10. Rainwater harvesting plan and plan for usage of the harvested water
11. Mine closure certificate of nearby quarry owned by the proponent.
12. 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 dated 19.04.2024.

**Item No.08**      **Environmental Clearance for the Granite Building Stone Quarry project of Sri. Ambujakshan. P, for an area of 1.3297 Ha at Re-Survey No. 132/1A, in Perinthatta Village, Thaliparamba Taluk, Kannur**  
**(SIA/KL/MIN/288582/2022, 2110/EC4/2022/SEIAA)**

The Committee examined the proposal and discussed the field inspection report and noted the following salient aspects in the field.

1. Slope is moderate to high in North West and south-eastern side.

2. Portion of an old quarry with a wall height of 10 to 12m is located at the south-eastern side of the proposed project area.
3. An old quarry with a vertical wall of 12m is found within the proposed area.
4. Anorthosite rock is exposed in the quarry.
5. Coarse grained crystalline rock (Anorthosite) is observed in the old quarry pit.
6. Compensatory afforestation plan given is not satisfactory.
7. A channel is located outside the project area at the southern side that drains the water from the old quarry pit located at the south-eastern side of the proposed area.
8. Land cover of the area is mixed natural vegetation.
9. Approach road is not maintained properly.

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

1. Location map of OB dump and protection measures.
2. Detailed compensatory afforestation plan.
3. Protection measures for the natural channel that drain water from the old quarry pit located at the south-eastern side of the proposed project area.
4. Revised CER proposal.
5. There is a road and buildings in the downslope region in the western side of the proposed site at a distance of around 140m from the project boundary. There is possibility of fly rocks reaching such areas requiring a plan of protection to the road and residential sites.
6. 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<sup>ble</sup> High Court of Kerala in WP(C) No. 30737 of 2022 dated 19.04.2024.

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

The Committee examined the additional documents submitted by the project Proponent and found them satisfactory. As per the Approved Mining Plan, the targeted production is 2,91,500. The life of mine is 4 years. The project cost is 1 crore. As per the Cluster Certificate dated 11.11.2022, there are no working quarries within 500m radius. The depth to water table as per the presentation is 25m bgl at 35m AMSL. The highest elevation of the proposed area is 80m and the lowest is 55m AMSL. The high hazard zone is located at a distance of 18km and the Moderate hazard zone is located at a distance of 7.60km. The distance to the nearest built structure is 55m from the Project boundary and there are 14 houses within a 50-100m radius. **Based on discussions, the Committee decided to recommend EC for a period of 4 years subject to the following specific conditions in**

**addition to the general conditions. The EC may be issued after obtaining 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 dated 19.04.2024.**

1. The Protective wall of 5m height between BP-7 and BP-8 should be developed prior to the commencement of mining activities.
2. Mining should be limited to a maximum depth of 55m above MSL to confining the mining to the slope and prevent the formation of mine pit to avoid breach of water storage to the residential area
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.10      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)**

The Committee examined the proposal in detail and verified the integrated EMP submitted by the Project Proponent. It is observed that integrated EMP is prepared by considering 6 adjacent quarries owned by the same proponent. Though the environmental management measures proposed are prepared in detail, the actions detailed in chapter 4.6 - 4.12 lack details pertaining to the 'When, Where and How' the activities will be implemented. **Hence, the Committee decided to invite the Proponent for a presentation of the integrated EMP incorporating the details as observed above. The Committee also decided to direct the Proponent to submit the 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 dated 19.04.2024.**

**Item No.11      Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Najeed U P for an area of 0.9954 Ha, at Re-Survey Nos. 67/1101, 1188 in Kakkad Village, Kozhikode Taluk, Kozhikode (SIA/KL/MIN/428457/2023, 2345/EC2/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report and noted the following salient aspects in the field.

1. The proposed area is located on a steep sloping flank of a lateritic plateau.
2. Area is covered with rubber plantation.
3. An old dilapidated built structure is found near the site.
4. North, East, and south-eastern side of the proposed area laterites are already quarried out and the area is not reclaimed.
5. Compensatory afforestation plan is not submitted.
6. OB dump location and protection plans are not given.
7. EMP need modification by considering steep slope of the area.



8. Approach road need development and maintenance.
9. Proposal for energy conservation not given.

**The Committee discussed the above observations and observed that the proposed area is fragile due to steep slope and thick soil cover. The slope is extensive and there are houses in the down slope regions. Currently, the site is used for rubber plantation which is found to be the most appropriate land use in the sloping land having high intensity rainfall incidences. Considering all these the Committee decided to recommend Rejection of the Proposal invoking Precautionary Principle.**

**Item No.12      Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Sabju V for an area of 0.3349 Ha at Re-Survey No.33/79 in Kakkad Village, Kozhikode Taluk, Kozhikode.  
(SIA/KL/MIN/429438/2023, 2326/EC4/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report and noted the following salient aspects in the field.

1. The proposed area is located on the lateritic plateau and its adjoining steep flank.
2. Area is covered partially with natural vegetation and rubber plantation.
3. An old laterite quarry with a depth of around 5 to 6m at the outer boundary of the proposed area
4. There are vertical fractures seen on the walls of the abandoned quarry but there is no direct evidence of soil piping.
5. OB dump plan and protection measures are not found provided.
6. Compensatory afforestation plan given is not satisfactory.

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

1. Possibility for confining the mining to the summit area of the hill to avoid the mining in the slope area flanking the proposed site
2. Modified drainage plan so as to prevent any water logging in and around the mine pit proposed to be developed.
3. Compensatory afforestation plan.
4. OB dump plan and protection measures.

**Item No.13      Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Noushad C.P for an area of 0.5696 Ha at at Re-Survey Nos. 172/3009, 172/3010 in Kodyathoor Village, Kozhikode Taluk, Kozhikode (SIA/KL/MIN/431401/2023, 2346/EC2/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report and noted the following salient aspects in the field.

1. The area is located on the flank of a linear lateritic ridge, the proposed site falling dominantly in the steep slope flank

2. The proposed area is adjacent to moderately hazard zone
3. Approach road is poor in condition and accident prone.
4. OB dump location not shown.
5. Compensatory afforestation plan is not provided.
6. EMP need to be site specific by considering gradient of the proposed area.
7. Effective energy management plan not proposed.

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

1. Possibility for confining the mining to the summit area of the hill to avoid mining in the steep slope area
2. Plan for developing approach road and its maintenance
3. Modified drainage plan so as to prevent any water logging in and around the mine pit proposed to be developed.
4. Compensatory afforestation plan.
5. OB dump plan and protection measures.
6. Site specific EMP considering the environmental fragility of the site

**Item No.14      Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Ullas T.K, for an area of 0.1909 Ha at Re-Survey No.67/977, 979 in Kakkad Village, Kozhikode Taluk, Kozhikode. (SIA/KL/MIN/431974/2023, 2347/EC2/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 23.05.2024 and noted the following salient aspects in the field.

1. The proposed area is located along the mid part of the lateritic plateau flank'
2. Slope is steep.
3. An old laterite cutting with a wall height of about 10m is observed at the southern part of the proposed area.
4. The old laterite quarry area outside the proposed area is not reclaimed.
5. Compensatory afforestation plan is not given.
6. Site specific EMP considering the steep slope of the area is required instead of the general EMP.
7. OB dump location and protection plan.
8. Approach road need development and maintenance.

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

1. Compensatory afforestation plan.
2. Modified site specific EMP considering the steep slope of the area.
3. OB dump location and protection plan.

4. Approach road need development and maintenance.

**Item No.15**      **Environmental Clearance for the Granite Building Stone Quarry of Sri. Alex P Cyriac, M/s. Perumalil Infrastructure Private Limited for an area of 3.1360 Ha at Re-Sy Nos. 772/1Apt, 772/2Apt, 772/2B, 772/3, 772/4Apt, 772/4B pt, 772/5pt & 773/7pt in Koothattukulam Village, Muvattupuzha Taluk, Ernakulam.**  
**(SIA/KL/MIN/436077/2023, 2400/EC1/2023/SEIAA)**

As invited the Project Proponent Sri. Alex P Cyriac and the RQP Shri. C Thambu Cherian were present. The RQP made the presentation. As per the application, the total mineable reserve is 6,55,324.73 MT. The Project cost is 585.3 lakh. The life of mine is 5 years. The total project cost is Rs.585.3 lakh. The minimum and maximum elevation of the proposed area is 130m above MSL and 142m above MSL. As per the additional documents submitted dated 25.06.2024, the depth to water table is 5-9m bgl. The nearest built structure is a distance of 103m. The moderate hazard zone is 7.39 km from the proposed area. The high-hazard zone is 11.2 km from the proposed area. As per the Cluster Certificate approved by the District Geologist, Ernakulam dated 07.07.2023 there are no other operational quarries within 500m radius. **Based on discussion, the Committee decided to recommend EC for a period of 5 years subject to the following specific conditions in addition to the general conditions. The EC may be issued after 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 dated 19.04.2024.**

1. The depth of mining should be limited to 125m 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.16**      **Environmental Clearance for the Laterite Building Stone Quarry of Sri.Ashiq K.C for an area of 0.8761 Ha at Block No.17 , Re Survey Nos: 130/2-3, 2-5, 2-6, 139/1-33, 1-40, 1-41, 1-42, 1-43 in Cheekode Village, Kondotty Taluk, Malappuram.(ADS Received)  
(SIA/KL/MIN/438819/2023 , 2376/EC1//2023/SEIAA)**

The 163<sup>rd</sup> SEAC meeting held on 16<sup>th</sup>, 17<sup>th</sup> & 18<sup>th</sup> April 2024 recommended the proposal for EC with mine life of 2 years subject to certain specific general conditions. The 142<sup>nd</sup> SEIAA meeting held on 30<sup>th</sup> & 31<sup>st</sup> May 2024 referred the proposal back to SEAC with a direction to the Project Proponent to submit a comprehensive Environmental Management Plan for the entire area and considering the adjacent mine area prepared by a NABET accredited agency. The Authority desired that the SEAC shall examine the comprehensive EMP and revise the recommendations, if any. The Committee examined the Comprehensive EMP prepared by M/s. Eco Tech Labs Pvt.Ltd., Chennai submitted by the project Proponent and found it satisfactory. As per the application, the total recoverable quantity proposed is 84,324 MT.

The life of mine is 2 years. The total project cost is Rs.23.4 lakh. The depth to water table is 8m below ground level at 44m above MSL. The nearest built structure is at 72.4 m. The highest elevation of the permit area is 91m above MSL and lowest is 65m above MSL. As per the presentation, the distance from high hazard zone is 9.42 Km and the distance to medium hazard zone is 30m. **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 project proponent should comprehensively implement the EMP by considering the adjacent project sites.
2. The depth of mining should be limited to 63m above MSL.
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.
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.17**      **Reappraisal of EC issued by DEIAA Granite Building Stone Quarry of Mr.Jayakumar T, Managing Partner, M/s BTL Rocks& Minerals for an area of 1.0379 ha at Re-Survey No's. 359/2- 1, 359/2-2, 360/5, 360/5-1,360/4-1,360/3-4,360/3-5,360/6-2, 360/6-1, 360/4-2 in Kulathummal Village, Kattakada Taluk, Trivandrum, Kerala. (SIA/KL/MIN/450543/2023, 2475/EC3/2023/SEIAA)**

As invited, an authorised person Sri. Anji Sathyan S and the Consultant Dr. A. Dhamodhran were present. The RQP made the Presentation. **Based on discussion, the Committee decided to direct the PP to submit the following additional documents.**

1. Revised CER as per the guidelines uploaded in the SEIAA Kerala website considering the local demand.
2. Details regarding nearest ESZ and ESA.
3. Compensatory afforestation plan.
4. Biodiversity Assessment Report.
5. Documents listed in the OM dated 28.04.2023 for reappraisal.
6. Clarification and explanation regarding the non-complied conditions as per the CCR.
7. Explanation regarding the mining carried out without maintaining benches.
8. Plan for providing protection of the mine as both eastern and western side of the proposed site is exposed to major roads and plenty of houses and the rest of the mining area in the northern and western sides, is having very steep slope of about 100m down slope.
9. 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 dated 19.04.2024.

**Item No.18**      **Environmental Clearance for the Laterite (Building Stone) Quarry of Smt. Reshma K, for an area of 0.2913 Ha, at Block No: 211, Re-Survey No: 19/109 in Padiyoor Village, Iritty Taluk, Kannur (SIA/KL/MIN/452252/2023, 2463/EC4/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 27.04.2024 and noted the following salient aspects in the field.

1. The proposed area falls on the crust of a lateritic plateau. Steeper on eastern and western sides of the project area.
2. Slope is gentle to moderate in the proposed area.
3. Steep slope at eastern boundary and beyond.
4. Laterite duricrust is seen here and there in the area.
5. Mixed natural vegetation.
6. Compensatory afforestation plan is not given.
7. Approach road need development and maintenance.

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

1. Compensatory afforestation plan.
2. Plan for road development and management.
3. Plan for reclamation of the land after mining.
4. Approval of the District Level Crisis Management Committee as the project site falls in medium hazard zone.

**Item No.19      Environmental Clearance for the Laterite Building Stone Quarry of Sri. Bijesh K. P., for an area of 0.1942 Ha. at Block No: 91, Re-Survey No: 46/559 in Kalliad Village, Iritty Taluk, Kannur (SIA/KL/MIN/453581/2023, 2486/EC4/2024/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project Proponent and found it satisfactory. As per the application, the total quantity proposed mining is 26,702 MT for 2 years. The recoverable quantity proposed is 18,692 MT with an annual production of 9,346 MT. The depth to water table is 7 m below ground level. The depth of mining should be limited to 5m below ground level. The medium hazard zone is at 850.4m and the high hazard zone is at 8.1 km from the proposed area. The project cost is Rs. 5,14,400/-. **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 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.20      Environmental Clearance for the Laterite Building Stone Quarry of Sri. Siyad C V., for an area of 0.1942 Ha at Block No. 91, Re-Survey No: 46/923 in Kalliad Village, Iritty Taluk, Kannur (SIA/KL/MIN/453670/2023, 2487/EC4/2024/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project Proponent and found it satisfactory. As per the application, the total quantity proposed mining is 26,702 MT for 2 years. The recoverable quantity proposed is 18,692 MT with an annual production of 9,346 MT per annum. The life of mine is 2 years. The depth to water table is 7 m below ground level at 115m AMSL. The project cost is Rs. 5,14,400/-. The medium hazard zone is at 672.2m and the high-hazard zone is at 7.9 km from the proposed area. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The 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.21      Environmental Clearance for the Laterite (Building Stone) Quarry project of Sri. Viju K. for an area of 0.0971 Ha. at Block No. 91, Re-Survey No: 46/1241, 46/4-1241-2 in Kalliad Village, Iritty Taluk, Kannur. (SIA/KL/MIN/453708/2023, 2488/EC4/2024/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project proponent and found satisfactory. As per the application, the total quantity proposed for mining is 13,351 MT. The recoverable quantity proposed is 9,346 MT for a mine life of 1 year. The depth to water table is 7 m below ground level. The project cost is Rs. 3,20,200/-. The medium hazard zone is at 750.6m and the high-hazard zone is 7.9 km from the proposed area. **Based on discussion, the Committee decided to recommend EC for mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions:**

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

11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC and maintained during the rest of the EC period.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

**Item No.22      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 examined the proposal and discussed the field inspection report conducted on 27.04.2024 and noted the following salient aspects in the field.

- a. Slope is low to moderate in the proposed area. Steep towards eastern side.
- b. Area is covered with cashew plantation.
- c. Lateritic duricrust is exposed here and there.
- d. Compensatory afforestation plan not given.

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

1. Revised CER as per the guideline published on the SEIAA website.
2. Detailed drainage plan.
3. Biodiversity Assessment Report.
4. Recent Cluster Certificate.
5. Depth to water table in the nearest dug well along with its distance from the project boundary and geo-tagged photographs of the well.
6. Compensatory afforestation plan along with geo-tagged photographs of the proposed area, ownership details of land and species proposed.
7. Geo-tagged photographs of the site and its surroundings from all the boundary pillars and a video showing the site and its surroundings.

**Item No.23      Environmental Clearance for Laterite Building Stone quarry of Sri. Manikandan P V for an area of 0.3316 Ha. at Survey No-65/1-1, 65/8 in Anakkara Village, Pattambi Taluk, Palakkad, Kerala. (SIA/KL/MIN/453860/2023, 2476/EC3/2023/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project Proponent and found it satisfactory. As per the application, the total mineable reserve is 49,740 MT. the project cost is 15 Lakh. The life of mine is 1 year. The highest elevation of the permitted area is 98m AMSL and the lowest elevation of the permitted area is 96m AMSL. The distance to the nearest house is 102.4 m. As per the presentation, the depth to water table is 9m bgl at 71m AMSL. The distance to high hazard zone is 43.77 km and the moderate hazard zone is 32.08 km. **Based on discussions, the Committee decided to recommend EC for mine life of 1 year subject to the following Specific Conditions in addition to the General Conditions:**

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

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

**Item No.24      Environmental Clearance application for Laterite Building Stone Quarry of Sri. Abdul Asees K.P., for an area of 0.4856 Ha. at Block No:37, Re-Survey No:32/177 in Kuttoor Village, Payyannur Taluk, Kannur. (SIA/KL/MIN/453983/2023, 2490/EC4/2024/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project Proponent and found it satisfactory. As per the application, the total mineable reserve is 64,747 MT with an annual production of 22,261 MT, 20,238 MT and 22,248 MT in respective years. The life of mine is 3 years. The nearest house is at a distance of 52.8m. The depth to water table is 6m below ground level at 139m AMSL. The total project cost is Rs. 18.256 Lakh. The distance to high hazard zone is 5.3km and the distance to medium hazard zone is 210.1m. **Based on discussion, the Committee decided to recommend EC for mine life of 3 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The project proponent should comprehensively implement the EMP by considering the adjacent project sites.
2. The depth of mining should be limited to 4m bgl considering the depth to water table.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above 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.25      Environmental Clearance for Laterite Building Stone quarry of Sri. Manikandan P V for an area of 0.8609 Ha. at Survey No-65/1-1, 65 in Anakkara Village, Pattambi Taluk, Palakkad, Kerala (Presentation) (SIA/KL/MIN/454085/2023, 2479/EC3/2023/SEIAA)**

The Committee examined the additional documents along with Comprehensive EMP submitted by the project Proponent and found satisfactory. As per the additional documents submitted, the depth to water table is 9m bgl at 71m AMSL. As per the application, the quantity proposed for mining is 1,29,135 MT with a recoverable quantity of 90394.5 MT. The project cost is 30 Lakh. The life of mine is 2 years. The highest elevation of the permit area is 96m AMSL and the lowest elevation of the permitted area is 92m AMSL. The distance to nearest house is 102.4 m. As per the presentation the depth to water table is 9m bgl at 71m AMSL. The distance to high hazard zone is 43.77 km and the moderate hazard zone is 32.08 km. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

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

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

**Item No.26      Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Jabir C.P., for an area of 0.1942 Ha at Block No: 37, Re Survey No: 32/177 in Kuttoor Village, Payyannur Taluk, Kannur (SIA/KL/MIN/454094/2023, 2492/EC4/2024/SEIAA)**

The Committee examined the Comprehensive EMP submitted by the project Proponent and found it satisfactory. The total mineable reserve is 26,702MT with an annual production of 13351MT. The mine life is 2 years. The project cost is Rs.6.115 Lakhs. The depth to the water table is 6m bgl at 142 m AMSL. The depth of mining proposed is 6m bgl. The distance to nearest habitation is 65m. A shed is at a distance of 54m. The distance to medium hazard zone is 256m. **Based on discussion, the Committee decided to recommend EC for mine life of 2 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The project proponent should comprehensively implement the EMP by considering the adjacent project sites.
2. The depth of mining should be limited to 4m bgl considering the depth to water table.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above 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.27**      **Environmental Clearance for the Granite Building Stone Quarry of Sri. Anoop P.V., Managing Director, M/s. Rudra Stone and Crusher Private Limited for an area of 1.6896 Ha at Block No.30, Re-Survey Nos. 113/6, 113/7, 113/6-1 in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram, Kerala.**  
**(SIA/KL/MIN/456003/2023, 2505/EC3/2024/SEIAA)**

The Committee scrutinised the additional documents submitted by the project Proponent and found them satisfactory. On verification, the Committee observed that there are built structures within the proposed site and decided to seek clarification for the same. **Based on the discussion, the Committee decided to invite the Proponent for a presentation and the PPT shall address the above observations and the 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 dated 19.04.2024.**

**Item No.28**      **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)**

The Committee examined the proposal in detail and verified the comprehensive EMP submitted by the Project Proponent. The environmental management measures proposed lack details pertaining to the 'When, Where and How' activities will be implemented and the purpose of the EMP is not addressed properly. Besides it is lacking the implementation of the drainage plan and the responsibilities of the Environment Monitoring Committee. **Hence, the Committee decided to invite the Proponent for a presentation of the integrated EMP**

considering the above observations. The PPT should also include the 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 dated 19.04.2024.

**Item No.29**      **Environmental Clearance for the Granite Building Stone quarry project of Sri. M.D George, M/s Ernad Associates for an area of 3.5950 Ha at Re Sy Block No.27, Re Sy Nos.37/8, 39/11-3, 39/11-2, 39/11, 43/1-2, 43/2, 42/4-5, 43/1 in Urangattiri Village, Ernad Taluk, Malappuram.**  
**(SIA/KL/MIN/53095/2020, 1668/EC6/2020/SEIAA)**

The Committee scrutinized the additional documents submitted by the project Proponent and found them satisfactory. **On verification, the Committee observed that the proposed area falls under Moderate Hazard zone. Hence, the Committee decided to direct the PP to submit the following additional documents.**

1. NOC from the District Level Crisis Management Committee.
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 dated 19.04.2024.

**Item No.30**      **Environmental Clearance for the Granite Building Stone quarry project of Sri. Muhammedali. P for an area of 5.0511 Ha at Block no.56, Sy.No.382/1-2, 382/2, 383/1, 383/1-1 in Morayur Village, Ernad Taluk, Malappuram.**  
**(SIA/KL/MIN/78419/2019, 1516/EC3/2019/SEIAA)**

The Committee examined the application and scrutinized the additional documents submitted by the project proponent. As per the additional documents, the PP submitted NOC from the District Level Crisis Management Committee dated 12.07.2024 since the project area falls in moderate hazard zone. The Committee also found that the PP has 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 dated 19.04.2024. The site is located on a hill ridge of elevation 373m above MSL. The FIR done, as stated by the PP, was done in 2021 for the approval of the ToR for EIA study. The Public Consultation was done on 19.1.2022 in which only 6 people seems to have attended. The Committee observed that after submission of the application, field inspection was not conducted for the appraisal. **Therefore, the Committee decided to entrust Dr. A.N. Manoharan and Dr.C.C. Harilal for evaluation of additional documents submitted vide letter dated 30/07/2024 and EIA report and field verification and report.**



**Item No.31**      **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Shans Paul, M/s Chattupara Granites Pvt Ltd for an area of 3.0274 Ha at Survey nos. 734/1B-1, 734/1B-4, 734/1B-5, 734/1B-6, 734/1B-7, 734/1B-8, 734/1B-9 in Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam.**  
**(SIA/KL/MIN/437379/2023, 2342/EC3/2023/SEIAA)**

The Committee re-examined the proposal as per the decision of the 146<sup>th</sup> SEIAA meeting and noted that as per the Cluster Certificate dated 30.06.2023 there were two non-working quarries owned by Sri. Raju Chacko (1 Ha) and Sri Nithin James (0.8502 Ha). As per the Field Inspection Report conducted on 20.01.2024, it is stated that there is another quarry owned by the Project Proponent for an area of 0.97 ha in addition to the two non-working quarries mentioned in the cluster certificate. The Committee also noted a complaint received from Sri. Shinaj Ali dated 14.08.2024 against the project proponent regarding violation of Kerala Land Reforms Act, 1963. **Hence, the Committee decided to direct the Proponent to submit the following documents.**

1. Report from the District Collector to clarify whether mining can be allowed in the proposed site considering the legal issue raised in the complaint
2. Clarification regarding the Cluster condition considering the adjacent quarries within 500m radius as per the minutes of 146<sup>th</sup> SEIAA meeting.
3. Response to the Complaint filed by the Sri. Shinaj Ali dated 14.08.2024 against the proposed quarry. The SEIAA Secretariat shall provide a copy of the complaint to the Proponent urgently for him to respond.
4. 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.

**Item No.32**      **Environmental Clearance for Granite Building stone Quarry of Sri. Eldho Issac for an area of 4.7023 Ha at Survey. No. 208/1 of Alanallur-III Village, Mannarkkad Taluk, Palakkad, Kerala**  
**(SIA/KL/MIN/72951/2022, 1590/EC1/2019/SEIAA)**

The Committee re-examined the proposal as the 146<sup>th</sup> SEIAA Meeting held on 29<sup>th</sup> and 30<sup>th</sup> July 2024 referred back the proposal to SEAC. The Authority sought clarification regarding the contradiction in the mine life mentioned in the mining plan and the SEAC recommendation. The Committee examined the documents in detail and observed that the mine life as per the approved Mine Plan is 16 years and same was noted in all the field inspection report and other minutes. However, the mine life of the project was wrongly stated as 6 years in the minutes of the 166<sup>th</sup> meeting of the SEAC due to typographical error and oversight. **Therefore, the Committee decided to clarify that the life of mine of the project, as given in the Mine Plan, is 16 years.**

**The Authority also sought clarification on the following and directed SEAC to make definite recommendation considering the following.**

1. Proof of application submitted to SCNBWL for wildlife Clearance.
2. Clarifications on misleading information regarding Puliyanthodu in the public hearing and the need for incorporating watershed conservation measures in the case of Puliyanthodu.
3. All issues raised in public hearing and observations SEAC during field inspection specially related protecting environment in the project region, effecting the local population in general are to be addressed.
4. Shortcomings in the traffic study, operation of quarries by the Project Proponent in and around the proposed site.
5. 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.

**Therefore, the Committee decided to direct the PP to submit clarification regarding the following.**

1. Proof of application submitted to SCNBWL for wildlife Clearance.
2. Clarifications on misleading information regarding Puliyanthodu in the public hearing and the need for incorporating watershed conservation measures in the case of Puliyanthodu.
3. All issues raised in public hearing and observations SEAC during field inspection specially related protecting environment in the project region, effecting the local population in general are to be addressed.
4. Shortcomings in the traffic study, operation of quarries by the Project Proponent in and around the proposed site.
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 dated 19.04.2024.

### **PARIVESH FILES (Ver-1)**

### **CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE**

#### **PART-2**

**Item No.01      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)**

The Committee examined the proposal and discussed it in detail. **The Committee also noted the Half Yearly Compliance Report on 27-07-2024. Based on discussion, the Committee decided to invite the Proponent for a presentation.**

## **PARIVESH FILES (Ver-2)**

### **PART-1**

**Item No.01**    **Environmental Clearance for the Granite Building Stone Quarry of Sri. Justin Varghese for an area of 0.6100 Ha at Block No.30, Sy.No.209/2, in Vadasserikkara Village, Ranni Taluk, Pathanamthitta. (SIA/KL/MIN/485679/2024)**

The Committee examined the proposal and discussed it in detail. As per the application and the Google imagery, the Pampa River is located at a distance of 250m and the site is located on a hill-ridge with the slope towards the river. The slope is high. The population density along the roadside and the river bank is very high. The soil thickness of the area is high and critical. The Vadasserikkara village is an ESA village, as per the MoEF&CC draft notification. **Based on the discussion, the Committee decided to invite the project proponent for a presentation along with a Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website and with UI number of the Drone used for survey. The presentation shall include clarification regarding the above observations. The PPT shall also be uploaded in the Parivesh portal.**

**Item No.02**    **Environmental Clearance for the Existing Re-Rolling mill by M/s Steel Max Rolling Mills Limited for an area of 1.58 ha Ha at sy.no. 560, 560/2,560/3 in Pudussery Village, Palakkad Taluk District. (SIA/KL/IND1/480217/2024)**

The Committee examined the proposal and discussed it in detail. The ToR for the proposal was approved as per letter No. SIA/KL/IND1/436971/2023, 2322/EC1/2023/SEIAA dated 09.11.2023. **Based on discussions the Committee decided to entrust Dr. A.V. Raghu, Sri. S. Sheik Hyder Hussain and Dr. K. Vasudevan Pillai for evaluating the EIA report, conducting field inspection and report.**

**Item No.03**    **Application for Terms of Reference for the Granite Building Stone Quarry project M/s Tulunad Granites for an area of 7.0665 ha at Block No. 74, Survey Nos. 85 Pt 107, 85 Pt 92, 85 Pt 105, 85 Pt 104, 85 Pt 87, 85 Pt 88, 85 Pt 89, 87/3 Pt 3, 87/3 Pt 10, 87/3 Pt 4, 87/3 Pt 11, 88/1A Pt 10 and 88/1B, Bedadka Village, Bedadka Panchayat, Kasaragod Taluk, Kasaragod District. (SIA/KL/MIN/477813/2024)**

The Committee examined the ToR application and discussed it in detail. As per the application the annual production of the proposed project is 3,60,000 MT and the life of mine is 10 years. The distance to the nearest house is 124 m. The elevation difference of the proposed area is 175 m AMSL to 45 m AMSL. The distance to the high hazard zone is at 300 m. **Based on discussions, the Committee decided to recommend Standard ToR under Category 1 (a) Mining of Minerals with the following additional studies:**

1. Detailed water quality studies in the upstream and downstream regions in the impact zone, considering the drains originating from the Project area and mitigation measures to prevent pollution, if any.
2. 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.
3. Landslide susceptibility study considering the slope, soil thickness, rainfall intensity, vegetation etc., in and around the proposed site.
4. Measures for reducing carbon footprints and enhancing carbon sequestration.

**Item No.04**      **Application for Terms of Reference for the Granite Building Stone Quarry project of Sri. Nelson Chakkappan, M/s Five Star Rocks for an area of 2.5110 ha at Survey No.- 575/1-2,581/1-4-2,575/1-2-2 in Konnithazham Village, Konni Taluk, Pathanamthitta. (SIA/KL/MIN/472747/2024)**

The Committee examined the proposal and discussed it in detail. The total area of the project is 2.5110 Ha. As per the Cluster Certificate dated 22.03.2024, there are two other quarries within 500m radius and altogether the extent of the cluster is more than 5 Ha. As per the approved mining plan the total mineable reserve is 9,47,655 MT for a mine life of 9 years. The Project cost is 2.54 Crores. The highest elevation of the area is 236m MSL and the lowest elevation is 144m AMSL. The NOC from the District Level Crisis Management Group, Pathanamthitta was obtained dated 08.11.2023 since the area falls under a moderate hazard zone. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with the following additional studies.**

1. Detailed water quality studies in the upstream and downstream regions in the impact zone, considering the drains originating from the Project area and mitigation measures to prevent pollution, if any.
2. 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.
3. Landslide susceptibility study considering the slope, soil thickness, rainfall intensity, vegetation etc., in and around the proposed site.
4. Measures for reducing carbon footprints and enhancing carbon sequestration.

**Item No.05**      **Application for Terms of Reference for the granite Building Stone Quarry project, M/s A J Granites (P) Ltd., represented by its Managing Director Mr. Anilkumar for an area of 2.5125 Ha at block no 30, Re-Survey numbers 352/5, 352/6, 353/1, 353/2-2, 353/3, 353/4, 354/9, 354/10 at Koodal Village, Konni Taluk Pathanamthitta District. (SIA/KL/MIN/473204/2024)**

The Committee examined the proposal and discussed it in detail. The total area of the project is 2.5125 Ha. As per the Cluster Certificate dated 29.09.2023 there are two other working quarries within a 500m radius and altogether the extent of the cluster is more

than 5 Ha. The highest elevation of the proposed area is 165 m AMSL and the lowest elevation is 125 m AMSL. Life of mine is 8 years. The total mineable reserves proposed is 12,00,670 MT. The Project cost is Rs. R 3,32,24,060/-. The high hazard zone is located at a distance of 11.1km and the medium hazard zone is at a distance of 1.27km. **Based on discussions, the Committee decided to recommend Standard ToR under category 1 (a) Mining of Minerals along with the following additional studies.**

1. Detailed water quality studies in the upstream and downstream regions in the impact zone, considering the drains originating from the Project area and mitigation measures to prevent pollution, if any.
2. 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.
3. Landslide susceptibility study considering the slope, soil thickness, rainfall intensity, vegetation etc., in and around the proposed site.
4. Measures for reducing carbon footprints and enhancing carbon sequestration.

**Item No.06      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Keelath Kasim, 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)**

The Committee examined the proposal and discussed it in detail. **Based on discussion, the Committee decided to invite the project proponent for presentation. The presentation shall include clarification/documents for the following shortcomings and it shall be uploaded to the Parivesh portal.**

1. The depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
2. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of the Drone used for the survey.
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 dated 19.04.2024.
4. 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.

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

**Item No.07      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Prathyuraj. E. R, for an area of 0.7682 Ha at Re-Survey No. 107/3 of Tarur-I Village, Alathur Taluk, Palakkad. (SIA/KL/MIN/478576/2024)**

The Committee examined the proposal in detail and observed that the life of mine proposed is 3 years and the site is located adjacent to existing quarries such as Malayalam Granites with

elevation varying from 105m to 115m above MSL. The depth to the water table is 12m bgl. Therefore, the mining should be limited to 95m AMSL considering the depth to water table. **Based on the discussion, the Committee decided to invite the project proponent for presentation. The presentation with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. The area proposed for Compensatory afforestation is a rocky terrain. Hence, an alternate site for Compensatory afforestation preferably in public places should be provided.
2. CER should be revised as per the guidelines published on the SEIAA website.
3. Evaluation of the possibility of accidents as there is an adjacent quarry in operation.
4. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of the drone used for survey.
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 dated 19.04.2024.

**Item No.08      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Shibu Mathew, M/s Rockfield Estates Private Limited, for an area of 3.9206 Ha at Block No. 40, Re-Sy nos. 162/11, 162/12, 163/1, 163/2, 163/3, 163/8 of Pampady Village, Pampady Grama panchayat, Kottayam Taluk, Kottayam. (SIA/KL/MIN/470219/2024)**

The Committee examined the proposal and discussed it in detail. The proposed mine life is 5 years, the nearest house is at 55m and the elevation of the site vary from 75m to 110m above MSL. The Committee noted that there is a quarry on the south side adjacent to the one proposed and the compliance there seems to be poor. There are many houses on the down-slope region of the site. **Based on the discussion, the Committee decided to invite the project proponent for presentation. The presentation shall include clarification/documents for the observations made above and the following shortcomings and the presentation shall be uploaded to the Parivesh portal.**

1. EMP prepared by a NABET Accredited agency.
2. Compensatory afforestation plan need revision as the area proposed is already vegetated. Hence, an alternate site for Compensatory afforestation preferably in the public places should be provided.
3. Revised CER as per the guidelines uploaded on the SEIAA Kerala website.
4. OB dump plan.
5. Clarification regarding the built structures within the proposed site and details of built structures in 100m radius.
6. The depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
7. Detailed drainage plan.

8. Drone video of the project site and surrounding areas within a 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of the drone.
9. 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 Granite Building Stone Quarry Project of Sri. Joy. K.O, Director, M/s Pampakuda Aggregates Pvt. Ltd for an area of 0.9994 Ha at Sy Nos. 645/4-A1-4, 645/4-A-2-3, 645/4-A-1-3, 645/4-B-3-2, 645/4-A-2-4, 645/4-B-1-2, 645/4-B-2-2 in Onakkoor Village, Muvattupuzha Taluk, Ernakulam (SIA/KL/MIN/462429/2024)**

The Committee examined the proposal and discussed it in detail. The site is located on top of a hill with elevation of the site varying from 144m-192m above MSL. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. EMP prepared by a NABET Accredited agency.
2. Revised Compensatory afforestation plan since the area is already vegetated. Hence, an alternate site for Compensatory afforestation preferably in public places.
3. Revised CER as per the guidelines uploaded in the SEIAA Kerala website.
4. The depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
5. Detailed drainage plan.
6. OB dump plan.
7. Pre-feasibility report, if not uploaded already
8. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of the drone.
9. 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.10      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mujeeb K.P, Managing Director, M/s. KPA Crusher Private Limited for an area of 1.2485 Ha at Block No. 08, Resurvey No. 188/1-1, 188/1-5, 188/2- 4, 188/3, 188/3-1, 188/3-2, 188/4-1, 188/4-2 & 190/1-3 in Pulikkal Village, Kondotty Taluk, Malappuram. (SIA/KL/MIN/482870/2024)**

The Committee examined the proposal in detail and observed that the site is located on a hill ridge and many quarries are located adjacent to the proposed quarry. The site falls in the medium hazard zone. The ToR for the proposed project was approved vide letter No. SIA/KL/MIN/412566/2022, 2187/EC6/2023/SEIAA dated 22.03.2023. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation with**

**clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Biodiversity Assessment Report.
2. Pre-feasibility report, if not uploaded already.
3. Approval of the District level Crisis Management Committee for mining as part of the site falls in the medium hazard zone.
4. CER as per the guidelines uploaded in the SEIAA Kerala website.
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.11      Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Khalid Abdul Saleem, for an area of 1.0308 Ha at Block No. 46, Re- Sy No. 210/1 in Chalavara Village, Ottappalam Taluk, Palakkad District. (SIA/KL/MIN/483142/2024)**

The Committee examined the proposal and observed that the site is on the steep slope of a ridge and there is a road on the down slope region of the hill-slope. There is an abandoned quarry near the proposed area. The life of mine proposed is 5 years. The elevation of the site vary from 105m to 140m above MSL and depth to water table is 12m bgl. The nearest house is at 144m. **Based on the discussion, the Committee decided to invite the Proponent for presentation. The presentation with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Soil thickness along and across the proposed site.
2. EMP prepared by a NABET-accredited agency.
3. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.
4. 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.12      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)**

The Committee examined the proposal and discussed it in detail. The site is located at the ridge top. The life of mine is 5 years and the depth to water table is 6m bgl. The hearest house is at 55m. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Soil thickness along and across the proposed site.
2. Non Assignment Certificate from the Village Office.



3. EMP prepared by a NABET accredited agency.
4. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.
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.13      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)**

The Committee examined the proposal in detail and observed that the site is located on a ridge top with many houses in the down slope region of the western side. The distance to moderate hazard zone is around 570m. The life of mine proposed is 7 years. The site elevation vary from 103m to 133m above MSL and the depth to water table is 4m bgl. The nearest house is at 100m. **Based on the discussion, the Committee decided to invite the Proponent for presentation. The presentation with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Soil thickness along and across the proposed site.
2. EMP prepared by a NABET accredited agency.
3. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.
4. 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      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)**

The Committee examined the proposal and discussed it in detail. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with Revised CER as per the guidelines uploaded in the SEIAA Website shall be uploaded to the Parivesh portal.**

**Item No.15**      **Reappraisal of DEIAA issued EC 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)**

The Committee examined the proposal in detail and observed that as per the KML file a considerable extraction has taken place from the site. There is a crusher located near to the proposed site. The life of mine proposed is 9 years and the elevation difference of the site is 100m to 135m above MSL. The moderate hazard zone is at a distance of 388m. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. All the documents required for reappraisal of EC from SEIAA as per OM dated 28. 4. 2023.
2. EMP prepared by a NABET accredited agency.
3. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website UI number of drone.
4. 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 the Granite Building Stone Quarry Project of Sri. Sivankutty. K, for an area of 0.8344 Ha at Block No. 24, Re- Sy No. 428/10(pt), 428/12(pt), 428/13(pt), 428/14(pt), 428/14-2(pt), 428/16, 428/17, 428/18 & 428/19 in Ummannoor Village, Kottarakkara Taluk, Kollam District. (SIA/KL/MIN/485227/2024)**

The Committee examined the proposal in detail and observed that the site is located on hilltop with buildings on the immediate downslope area. There is a building at 16m and there are 7 buildings between 50-100m. The site seems to have thick vegetation and deep soil cover. The proposed life of mine is 2 years and the elevation difference of the site is 96m to 108m above MSL. The depth to water table is 10m bgl. The Committee observed that there is an adjacent quarry proposal (SIA/KL/MIN/462319/2024) under consideration of SEAC owned by the same PP. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Clarification regarding the compliance of EC conditions of the adjacent quarry.
2. Comprehensive EMP prepared by a NABET accredited agency considering the adjacent quarry proposal.
3. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.

4. 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.17**      **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.**  
**(SIA/KL/MIN/478503/2024)**

The Committee examined the proposal and discussed it in detail. The committee observed that, there are many quarries and crushers in and around the site. The ToR for the proposal was approved vide letter No. SIA/KL/MIN/443641/2023 dated 10.01.2024 as per the decision of 135<sup>th</sup> SEIAA meeting. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. The depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
2. Non-Assignment Certificate from the Village Office
3. Recent Survey Map approved by competent authority.
4. Clarification regarding the building at a distance of 63m.
5. No cost consideration in the EMP and the same may be revised.
6. CCR from the IRO, MoEFCC, Bangalore.
7. 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**      **Re-appraisal of DEIAA issued EC for the Granite Building Stone Quarry Project of Sri. Sabu Varghese, Managing Partner, M/s. S.S Granites for an area of 4.3046 Ha at Survey No. 441/4-1, 441/5, 455/6A, 457/3-1, 457/4-2, 457/4-3, 457/5, 459/2A3 & 459/2B2 in Palakkuzha Village, Muvattupuzha Taluk, Ernakulam. (EC issued by DEIAA)**  
**(SIA/KL/MIN/48246/2024)**

The Committee examined the proposal and discussed it in detail. The proposed mine life is 5 years. The site elevation varies from 110m to 170m above MSL. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. CER as per the guideline published on the SEIAA website.
2. Bio-diversity Assessment Report, if not uploaded already
3. Proposal of re-grassing the mining area.

4. Compensatory afforestation plan preferably in the public
5. Depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
6. All the documents required for reappraisal of EC as per OM dated 28/4/2023.
7. Clarification on the cluster condition
8. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.
9. 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.19      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. (SIA/KL/MIN/485788/2024)**

The Committee examined the proposal and discussed it in detail. The mine life proposed is 3 years. The site elevation varies from 60m to 75m above MSL. The site is located on the slope of a gentle hill. **Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation along with clarification/documents for the following shortcomings shall be uploaded to the Parivesh portal.**

1. Depth to water table in the nearest dug well along with geotagged photograph of the well, distance to it from the project boundary and altitude of the well site.
2. Clarification on the cluster condition
3. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of drone.
4. 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.20      Environmental Clearance for the expansion of Thiruvananthapuram International Airport at Thiruvananthapuram District, Kerala (SIA/KL/INFRA2/456278/2024)**

The Committee examined the ToR proposal and discussed it in detail. The proposed project is the redevelopment of Terminal-1, up-gradation/ development of New Terminal-2 & its associated/allied buildings which include Forecourt including F&B, Retail, Terminal Hotel, Offices, ATC, MLCP etc. and other supporting infrastructure essential for operation and maintenance of Airport on Airside & Landside inline to the requirements with a total built up area of 5,52,420 sq.m to handle 27 MPPA (million passengers per annum) passengers & 0.42 MTPA (Million Tons per Annum) cargo. The proposed capacity expansion activity is to enhance the passenger handling capacity to 27 MPPA and cargo Capacity up to 0.42 MTPA at Thiruvananthapuram International Airport. **Based on the Discussion the Committee**

**decided to recommend Standard ToR under category 7(a) “Airports” for the EIA study with the following additional studies.**

1. Water quality monitoring of Parvathy Puthanar and other adjoining canals and measures for maintaining them clean and neat from the part of the Proponent.
2. Noise impact on the high-density population in the Northern and Southern sides of the airport.
3. Impact of the proposed activities on the existing infrastructure in the western and eastern side of the airport
4. Detailed traffic studies on the various roads connecting both the airport terminals, impact of traffic on various connecting roads and mitigation measures for decongestion of the connecting roads.
5. Impact on the ecology of the beach and adjoining tourism-important water bodies such as lakes and back waters in the impact zone due to enhanced foot-fall.

**Item No.21 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. George P. V., for an area of 0.0971 Ha at Block No. 146, Re-Survey No .256/1061 of Kadannappally Village, Payyannur Taluk, Kannur. (SIA/KL/MIN/487011/2024)**

As invited the Project Proponent Sri. George P. V and the RQP V. K Roy were present. The RQP made the presentation. As per the application, the total quantity proposed for mining is 13,351 MT with a recoverable quantity of 9,346 MT. As per the Form-1, the project cost is 4,64,200/-. The depth to water table is 9m bgl at 70m AMSL. The elevation difference of the proposed area is 85m-88m above MSL. The distance to medium hazard zone is 4.54km. The distance to nearest built structure is 142.9 m. As per the Cluster Certificate dated 18.06.2024 there are no working quarry within 500m radius. **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. UV based water purifier should be provided for the activity proposed in the CER.
2. The excavation activity should not involve blasting.
3. The excavation activity should be restricted to 2m above the groundwater table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area.
5. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
7. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
9. Workers/laborers should be provided with facilities for drinking water and sanitation.

10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented within 6 months from the date of EC and maintained during the rest of the EC period.
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

**Item No.22      Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Raghavan Unathil, for an area of 0.8094 Ha at Block No.28 Re- Sy No. 228/101 in Kankol Village, Payyannur Taluk, Kannur (SIA/KL/MIN/487592/2024)**

As invited the Project Proponent Sri. Raghavan Unathil and the RQP V. K Roy were present. The RQP made the presentation. **Based on discussions, the Committee decided to direct the PP to submit the following Additional Documents.**

1. Drone video of the project site and surrounding areas within 500m radius as per the Guidelines uploaded on the SEIAA website with UI number of the Drone used for survey.
2. Revised EMP with site-specific environmental issues, appropriate mitigation measures, action plan and cost involved.
3. Revised CER as per the guideline published on the SEIAA website.
4. Photographs of the vertical cutting of the adjacent quarry.
5. Air quality monitoring data.
6. Biodiversity Assessment Report.

**Item No.23      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 Anakkara Village, Pattambi Taluk, Palakkad (SIA/KL/MIN/483628/2024)**

As invited the Project Proponent Sri. Subramanian K and the RQP V. K Roy were present. The RQP made the presentation. **Based on discussions, the Committee decided to direct the PP to submit the following Additional Documents.**

1. Revised EMP with site-specific environmental issues, appropriate mitigation measures, action plan and cost involved.

2. Revised CER as per the guideline published on the SEIAA website.
3. Photographs of the vertical cutting of the adjacent quarry.
4. Air quality monitoring data.
5. Biodiversity Assessment Report.
6. Revised drainage plan.

**Item No.24      Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. K. K. Raghavan, for an area of 0.0971 Ha at Block No. 38 in Re-Survey Nos. 18/409,18/410 of Perinthatta Village, Payyannur Taluk, Kannur. (SIA/KL/MIN/488338/2024)**

As invited the Project Proponent Sri. K. K. Raghavan and the RQP V. K Roy were present. The RQP made the presentation. As per the application, the total quantity proposed for mining is 12,138 MT. As per the form-1, the project cost is Rs. 3,05,700/-. The life of mine is 1 year. The depth to water table is 10m bgl at 94m AMSL. The distance to nearest house is 149 m. The distance to high hazard zone is 15.4 km and the distance to medium hazard zone is 3.07 km. As per the geological section, the elevation difference is 107-108m AMSL. The Cluster Certificate dated 05.07.2024 states that no permitted quarry within a 500m radius.

**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.25    Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Mustafa Pulukool, for an area of 0.3773 Ha. at Block No. 28, Re-Survey Nos. 240/101, of Kankol Village, Payyannur Taluk, Kannur (SIA/KL/MIN/486727/2024)**

As invited the Project Proponent Sri. Mustafa Pulukool and the RQP V. K Roy were present. The RQP made the presentation. **Based on discussions, the Committee decided to direct the PP to submit the following Additional documents.**

1. Revised EMP with site-specific environmental issues, appropriate mitigation measures, action plan and cost involved.
2. Air quality monitoring data.
3. Biodiversity Assessment Report.
4. Compensatory afforestation plan.

**PARIVESH FILES (Ver-2)**  
**PART-2**

**Item No.01    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)**

The Committee scrutinized the additional documents submitted by the project proponent. **Based on discussion, the Committee decided to invite the Proponent for a detailed presentation of the additional documents submitted through the Parivesh Portal. The Committee also decided to entrust the Field Inspection team consisting of Dr. R. Ajayakumar Varma, Sri. S. Sheik Hyder Hussain, Dr. C.C. Harilal, and Dr. A.N. Manoharan for a detailed evaluation of the additional documents submitted.**



**Item No.02**      **Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Umerali. N for an area of 0.8985 Ha at Re. Survey Nos. 1169/162, 1169/161, 1169/108 in Melmuri Village, Ernad Taluk, Malappuram. (SIA/KL/MIN/463740/2024)**

As invited the Project Proponent Sri. Umerali. N and the RQP Dr. Nazar Ahammed were present. The RQP made the presentation. The Committee observed that the site is located on a ridge top and medium hazard zone at 50.5m from the proposed site. The elevation difference of the area is 225 m to 205 MSL. The depth to the water table is 8m bgl at 131m AMSL. **Based on discussions, the Committee decided to direct the PP to submit the following Additional Documents.**

1. EMP prepared by a NABET-accredited agency.
2. Drone video of the project site and surrounding areas within a 500m radius as per the Guidelines uploaded on the SEIAA website with the Unique Identification Number of the Drone used for the survey
3. Compensatory afforestation plan.
4. Soil thickness across and along the proposed site.
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.03**      **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 Vengappally Village, Vythiri Taluk, Wayanad. (SIA/KL/MIN/466738/2024)**

As per the decision of the 166<sup>th</sup> SEAC meeting, the proponent was invited for presentation vide email dated 26<sup>th</sup> August 2024. However, the proponent was absent from the presentation due to health issues. **Hence, the Committee decided to defer the proposal as requested by the PP.**

**Item No.04**      **Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Kunjunneen for an area of 0.9716 Ha at Re- Sy No. 854/2C1-171 in Kurumbalangode Village, Nilambur Taluk, Malappuram. (SIA/KL/MIN/450073/2023)**

The Committee scrutinized the additional documents submitted by the project proponent. **Based on discussions, the Committee decided to direct the PP to submit the following additional documents.**

1. EMP prepared by a NABET Accredited Agency.
2. Revised CER as per the guideline published on the SEIAA website.
3. Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-

ESA areas in the village and showing that the proposed site does not form part of the block/survey numbers demarcated as ESA. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

**Item No.05      Environmental Clearance for the Granite Building Stone Quarry of Sri. Ajayan Joseph for an area of 0.6993 Ha at Re-Block No. 61, Re-Survey Nos. 49/4-1, 49/14 in Pookkottukavu Village, Ottapalam Taluk, Palakkad District(SIA/KL/MIN/470038/2024)**

The Committee scrutinized the additional documents submitted by the project proponent and found them satisfactory. As per the additional documents submitted dated 21/08/2024 the depth to water table is 10m bgl at 89m AMSL. The Project proponent submitted NOC from the Irrigation Division, Kanjirapuzha dated 17.08.2024 issued for quarrying without any structural damage to a canal located at a distance of 71m from the BP3. As per the application, the total mineable reserve is 1,47,649 MT. The life of mine is 3 years. The Project cost is Rs. 1 crore. The distance to nearest built structure is 158.7m. The elevation difference of the proposed area is 100-125 m AMSL. The distance to medium hazard zone is 4.8km and the distance to high hazard zone is 18.67km. As per the Cluster Certificate dated 13/3/2024, there is another working quarry with an area of 0.9995 Ha within 500m. **Based on discussion, the Committee decided to recommend EC for 3 years as per the Scheme of mine subject to the following Specific Conditions.**

1. Protection wall should be developed as per the NOC from the Irrigation division to prevent structural damage to the canal.
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.06      Environmental Clearance for the Integrated Manufacturing Cluster (IMC) in Kerala Under Kochi-Bengaluru Industrial Corridor (KBIC) at Kannambra I village of Alathur Taluk in Palakkad District (FIR Received) (SIA/KL/INFRA2/456060/2023)**

As invited, the Managing Director, Santhosh Koshy Thomas, the Consultant Dr. Sankalp Anand (ERM India Pvt Ltd), Vivek T and Neeraj were present. The proposed project is a development of Integrated Manufacturing Cluster (IMC) in area of 126.74 ha (313.17 acres). **Based on discussions, the Committee decided to direct the PP to submit the following additional documents.**

1. Revised CER proposal considering the feasibility for supporting well recharging facility for the local population.
2. Detailed statement regarding the type of primary treatment proposed to be included in the project for each type of industry and details as to how it will be integrated with the proposed CETP. The EIA report did not address the additional ToR “Necessity and feasibility of primary treatment at the individual industry level prior to letting out the effluents to common treatment plant for improving efficiency”.

3. Detailed statement on the increasing water requirement of the project over the years, considering the overall water use in the basin and water balance of the proposed source of water. The EIA report did not address the additional ToR “Overall water use in the basin is to be examined to ensure that the drawal of water for industrial use by the IMC will not cause shortage of water for use in agriculture and drinking water. Additional water conservation and harvesting measures are to be considered to overcome this problem”.
4. Detailed conservation plan for the natural drains and its watersheds consisting of water recharging measures and water harvesting facilities proposed in each micro watershed. The site is characterized by about 5-6 natural drains and its micro watersheds and conservation of these micro watersheds will be conducive for developing alternate source of water which will be useful in the event of any water stress condition to the source proposed in the project.
5. Conservation plan for the existing canals, streams and ponds in the proposed site
6. Maximum and minimum depth to water table during monsoon and non-monsoon season in the wells located within the project site.
7. SoP for mitigating human-wildlife conflict, if any and safeguard against nuisance and accidents due to animals in the compound.
8. Impacts and mitigations required as the CETP is proposed to be located adjacent to the RWH facility.
9. Proposal for Corporate Environmental Responsibility Plan and the proposed cost as per the guidelines uploaded on the SEIAA-Kerala website.
10. Details with respect to the type and quantity of anticipated generation of municipal solid waste, its collection and transportation from different sources, provision for segregated storage and processing and safeguards required to be provided etc.
11. Detailed solid waste management plan along with the required cost anticipated.
12. The Environmental Management Plan for many of the mitigation measures are sketchy in nature. It should be revised by incorporating specific management measures.
13. Compensatory afforestation plan.
14. CER may include maintenance of roads that will be useful for the local population but should not include approach road to the proposed site.
15. Watershed conservation and augmentation plan.

**Item No.07    Amendment of Environmental Clearance for the Granite Building Stone Quarry of Smt. A.H Asurabi for an area of 3.2299 Ha at Survey Nos. 158/1,158/2,158/3,159 in Venganellur Village, Thalappilly Taluk, Thrissur District- Application for Amendment in EC.  
(SIA/KL/MIN/472180/2024)**

As invited, Sri. MH Abdul Salam, person authorized by Smt Aurabi and the RQP Dr. Nazar Ahamed. K. was present. The Committee noted that the EC No EC22B001KL167179 dated 11/10/2022 was issued in the name of Sri M.H. Abdul Noushad for 5 years. As per the 121<sup>st</sup> SEIAA meeting, the EC was transferred to Smt. A.H Asurabi vide EC proceedings no.

SIA/KL/MIN/294470/2022, 2150/EC6/2022/SEIAA dated 14/02/2023. Now, the Project Proponent has applied for change of period of life of mine. As per the EC issued, the project life was 5 years. As per Approved mining plan, the project life is 12 years. The Peechi-Vazhani Wildlife Sanctuary is located at a distance of 7.81 km. During the presentation, the PP showed the slide depicting the proof of application for wildlife clearance is submitted to SCNBWL on 17.8.2024 and cluster certificate dated 24.7.2024. The PP also stated that the CCR from IRO, Bangalore has not been obtained as the mining activity has not been started as the quarrying leases have not yet been executed. The PP submitted that the Hon'ble High Court vide its judgment directed the Mining and Geology Department to issue lease certificate. The nearest habitation is located at 114.6m from the proposed site. As per the approved mining plan the total mineable reserve is 9,51,263 MT. The judgement of the Hon. High Court dated 12.6.2023 in WP(C) NO.14488 OF 2023 quashed the Condition No.3(3) of Ext.P2, the EC dated 11.10.2022, that stipulates obtaining of clearance from SCNBWL and directed the 3rd respondent SEIAA to issue Environmental Clearance without insisting for clearance from SCNBWL. In the circumstance, **the Committee based on discussion, decided to direct the Proponent to upload the following documents for taking a final decision on the proposal.**

1. Sworn affidavit stating that mining lease has not been issued from the Mining & Geology Department and mining has not been commenced.
2. Latest Cluster certificate from the Mining and Geology Department.
3. 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 and 4655 of 2024 dated 19.04. 2024.

**Item No.08      Reappraisal of Environmental Clearance issued by DEIAA, Palakkad for the Granite Building Stone Quarry of Sri. Saji Sebastian, Managing Director, M/s Matha Aggregates Private Limited for an area of 2.3698 Ha at Survey Nos. 459/1B2B, 459/1B2C, 459/3(Pt), 459/5(Pt) in Nagalassery Village, Pattambi Taluk, Palakkad District. (SIA/KL/MIN/459175/2024).**

As invited the Project Proponent Sri. Saji Sebastian and the RQP C Balaraman were present. The RQP made the presentation. The application is for reappraisal of the EC issued by DEIAA, Palakkad dated 19.1.2018 to M/s. Riyas P.M., Velladikunnu, Nagalassery, Pattambi. But the application for reappraisal is submitted by Sri. Saji Sebastian, Matha Aggregates, Ernakulam. The Committee noted that the Quarry lease is transferred from M/s. KNK Granites to M/s. Matha Granites as per the Proceedings dated 16.3.2019. During the presentation, it was shown that the applicant obtained CCR from the IRO, MoEF&CC dated 23.4.2024. The baseline data has been monitored during March 2024. **The Committee noted that the following documents sought in the 167<sup>th</sup> meeting of SEAC has not been uploaded.**

1. Clarification for the non-transfer of EC to leaseholder.
2. Clarification regarding the distance to the nearest wildlife sanctuary.

3. Depth to water table measured in the nearest open well to the site with geotagged photographs and distance between the well and project boundary.
4. CCR from the IRO, MoEFCC, Bangalore.
5. EMP prepared by a NABET accredited Agency.
6. Latest Cluster certificate from the Mining and Geology Department.
7. All the documents required for reappraisal of EC from SEIAA as per OM dated 28/04/2023

**The Committee noted that the following documents are also required for further appraisal.**

1. Proof of application submitted for Wildlife Clearance to SCNBWL
2. Depth to water table below ground level in the nearest dug well along with geotagged photograph of the well, distance from the project boundary and site elevation.
3. EMP prepared by a NABET accredited agency.
4. Plan for maintaining a 50m buffer from the project boundary to the crusher building.
5. 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 and 4655 of 2024 dated 19.04. 2024.

**The Committee also observed that the new lessee has not complied with conditions stipulated in the OM dated 10.12.2021 regarding the Procedure for handling EC transfer cases as per the provisions of S.O. 2817(E), dated the 13th July, 2021.**

**In the circumstance, the Committee, based on discussion, decided to direct the Project Proponent to comply with the OM dated 10.12.2021 and upload the following documents.**

1. All the documents required for reappraisal of EC from SEIAA as per OM dated 28/04/2023
2. Depth to water table measured in the nearest open well to the site with geotagged photographs and distance between the well and project boundary.
3. CCR from the IRO, MoEFCC, Bangalore.
4. EMP prepared by a NABET accredited Agency.
5. Latest Cluster certificate from the Mining and Geology Department.
6. Proof of application submitted for Wildlife Clearance to SCNBWL
7. Depth to water table below ground level in the nearest dug well along with geotagged photograph of the well, distance from the project boundary and site elevation.
8. EMP prepared by a NABET accredited agency.
9. Plan for maintaining a 50m buffer from the project boundary to the crusher building.
10. 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 and 4655 of 2024 dated 19.04. 2024.
11. Affidavit regarding the compliance to the OM dated 10.12.2021 mentioned above

**Item No.09**      **Reappraisal of Environmental Clearance issued by DEIAA, Palakkad for the Granite Building Stone Quarry of Sri. Biju Alias Varghese P.K for an area of 2.3087 Ha at Block No.39, Re- Survey No: 303/pt in Kizhakkanchery- II Village, Alathur Taluk, Palakkad District. (SIA/KL/MIN/459376/2024)**

As invited the Project Proponent Sri. Biju Alias Varghese P.K and the RQP C Balaraman were present. The RQP made the Presentation. The application is for reappraisal of the EC issued by the DEIAA. As per the presentation, the Peechi-Vazhani Wildlife is located at a distance of 1.02 km and the distance to Chimmony Wildlife is 3.75 KM. The moderate hazard zone is located at a distance of 2m from the proposed site in continuation with high hazard zone at around 300m and it is near to the Nannangadi Hills. During the presentation, the RQP exhibited the CCR dated 24.4.2024 and base line data monitored during June 2023. However, it is noted that none of the five additional documents sought are uploaded and the baseline data is monitored during monsoon period. **Therefore, the Committee, based on discussion, decided to direct the Proponent to upload the following details are required for the appraisal of the proposal.**

1. Baseline monitoring data for non-monsoon period
2. EMP prepared by NABET accredited agency
3. The NOC from the District Level Crisis Management Group is to be submitted considering the nearness to the moderate hazard zone.
4. Proof of application submitted for wildlife clearance to SCNBWL.
5. Pre-feasibility report.
6. CER as per the guidelines published on the SEIAA website
7. Green belt plan
8. 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 and 4655 of 2024 dated 19.04. 2024.

**Item No.10**      **Environmental Clearance for Building Stone Quarry Project of Sri. Ajay Sundaresh, Managing Partner, M/s Darshan Granites, for an area of 7.8705 ha at Re-Sy Block No. 18, Re.Sy Nos. 13/2, 13/3, 18/2, 18/3, 40/1-1, 40/1-2, 40/4, 40/4-2, 40/6, 41/1-1,41/1-2, 41/2, 41/3, 41/4, 41/5 (Patta land - 6.1918 ha.), 18/1, 41/6 (Govt. land - 1.6787 ha), in Chakkuvarakkal Village, Kottarakkara Taluk, Kollam. (SIA/KL/MIN/469843/2024)**

As invited the Project Proponent Sri. Ajay Sundaresh, M/s Darshan Granites and the Consultant, Sri. Jomon of M/s Environmental Engineers & Consultants Pvt. Ltd. were present. The consultant made the presentation. The mineable reserve is 39,33,900 MT and the mine life is 12 years. However, as per the EIA report, the mineable reserve is 55,99,746 MT with mine life of 14 years. The project cost given in the application is Rs. 13.115 Cr and the same given in PFR is Rs. 4.54 Cr. The elevation of the site vary from 120m to 200m above MSL and the ultimate mine depth is 125m above MSL. The depth to water table is 4m bgl.

The EMP cost projected is Rs. 2 Cr. The production proposed is 4 Lakh TPA which indicates that there will be about 25 truck load moving out of the project site. The site is located on the hill top. The minutes of the public consultation indicates that there have been various objections to the proposal which need careful consideration. The Committee noted that the following details are required for further appraisal of the proposal.

1. 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 and 4655 of 2024 dated 19.04. 2024.
2. Baseline monitoring data covering the entire impact zone to capture the environmental scenario of the impact zone.
3. The transportation plan has not considered the carrying capacity of the network of all roads including the major roads in the impact zone.
4. There are micro water sheds originating in that area, particularly from the site. The impact of mining on the water source is highly important in the midland area, which is not addressed adequately in the EIA report.
5. The OB thickness is significantly high and its management plan is not proper.
6. The slope characteristics and the impact zone due to quarrying are not properly addressed. Mitigation measures for water scarcity in the adjacent wells
7. Valid NOC for the Govt land
8. Non-assignment certificate from the Village Officer

**Based on the discussion, the Committee decided to entrust Dr. Mahesh Mohan and Dr. R. Ajayakumar Varma for evaluation of EIA report and also to conduct field inspection and submit report.**

**Item No.11      Reappraisal of the Environmental Clearance for the granite building stone quarry of Sri. K.M. Joy, M/s JB Granites for an area of 2.4169 Ha at Survey No. 217/2- 2, 217/2-3, 217/2-1, 218/3 in Parakkadavu Village, Aluva Taluk, Ernakulam. (Old Proposal No. SIA/KL/MIN/293383/2022 Old File No: 843/SEIAA/EC3/2805/2015) (New proposal no. SIA/KL/MIN/462178/2024)**

As invited the Project Proponent Sri. K.M. Joy, M/s JB Granites and the RQP C Balaraman were present. The RQP made the Presentation. The annual production proposed is 99212 TPA and the life of mine proposed is 7 years. The nearest house is at 73m. The mine plan is dated 27.6.2015. The Committee observed that the Approved mine plan and the drawings are not legible. Some sections, that are legible doesn't indicate that the 45-degree slope can be maintained while mining. The depth to the water table as per the presentation is 9m bgl. **Based on discussions, the Committee decided to direct the PP to submit the following Additional documents.**

1. Revised Mine Plan.
2. Recent cluster certificate from the Mining & Geology Department
3. Pre-feasibility Report
4. EMP prepared by NABET accredited Consultant



5. Depth to water table measured in the nearest open well to the site with geotagged photographs of the well location and distance between the well and the project boundary
6. Post mining regrassing proposal
7. Details of ESZ, National Parks, Wild Life Sanctuaries etc.
8. 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 and 4655 of 2024 dated 19.04. 2024.

**Item No.12      Environmental Clearance for the Ordinary Earth Excavation Project of Sri. Siyad P A, for an area of 48.35 Ares at Block No. 27, Re- Sy No. 162 in Kizhakambalam Village, Kunnathunadu Taluk, Ernakulam (SIA/KL/MIN/467076/2024)**

The Committee examined the proposal and discussed the field inspection report conducted on 03.07.2024. **Based discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Comprehensive EMP considering the adjacent project (SIA/KL/MIN/466642/2024) and detailing the site-specific environmental issues, appropriate mitigation measures, action plan and cost requirement
2. Detailed drainage plan considering the proposed project and the adjacent project (SIA/KL/MIN/466642/2024) and a contour map showing the proposed project and the adjacent project.
3. Affidavit by the proponent and the proponent of the adjacent project (SIA/KL/MIN/466642/ 2024) agreeing to implement the comprehensive EMP and integrated drainage plan.
4. Latest work order and details of end users with total requirement.
5. Consent from the owner of the crusher unit and the nearby house owner
6. Map clearly indicating the distance to each physical structure within a radius of 100 meters from the project boundaries, the crusher unit and the generator.

**Item No.13      Environmental Clearance for the Excavation of Ordinary Earth of Sri. Althaf K A, for an area of 99.95 Ares at Block No. 27, Re- Sy No. 162 in Kizhakambalam Village, Kunnathunad Taluk, Ernakulam. (SIA/KL/MIN/466642/2024)**

The Committee examined the proposal and discussed the field inspection report conducted on 03.07.2024. **Based discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Comprehensive EMP considering the adjacent project (SIA/KL/MIN/467076/ 2024) and detailing the site-specific environmental issues, appropriate mitigation measures, action plan and cost requirement

2. Detailed drainage plan considering the proposed project and the adjacent project (SIA/KL/MIN/467076/2024) and a contour map showing the proposed project and the adjacent project.
3. Affidavit by the proponent and the proponent of the adjacent project (SIA/KL/MIN/467076/ 2024) agreeing to implement the comprehensive EMP and integrated drainage plan.
4. Latest work order and details of end users with total requirement.
5. Consent from the owner of the crusher unit and the nearby house owner.
6. Map clearly indicating the distance to each physical structure within a radius of 100 metres from the project boundaries, the crusher unit and the generator

**Item No.14**      **Revalidation of EC issued to Sri. K. Mohammed Akbar, M/s. Ooragam Metals Ltd. for the Proposed Granite Building Stone Quarry for an area of 5.3527 Ha at Sy. Nos. 34/2 Pt., 30/2/2 Pt., 20/7 Pt., 30/2/3 and 20/1 Pt. in Oorakam Panchayath and Village, Tirurangadi Taluk, Malappuram – Modification of EC – (Old File No.120/SEIAA/KL/2186/2015) (New proposal No. SIA/KL/MIN/489347/2024)**

The Committee examined the revalidation application in detail. Environmental Clearance was issued to M/s Ooragam Metals Ltd. on 22.11.2013 for a period of five years, The mine life as per the EC was 17 years. The validity of EC expired on 30.10.2018. Thereafter on 07.12.2018 SEIAA gave 1 year extension of the EC from 31.10.2018. On the expiry of the validity, SEIAA once again extended the validity for a period of 9 months from 30.10.2019. Since the area is above 5 ha, the project proponent applied for ToR in PARIVESH for further extension. As per the Judgment dated 01.02.2021 in WP(C) No.2512 of 2021 filed by the project proponent, the Hon“ble High Court issued directions for revalidation of the EC already issued in the past. As part of the revalidation, the Sub-Committee conducted field verification and the 124th meeting of SEAC decided to recommend the revalidation of EC with project life of 17 years from the date of issuance of the first EC order (22.11.2013) subject to review every five years. While considering the recommendation of the SEAC, the 112th meeting of SEIAA noticed a complaint of Adv. Harish Vasudevan, alleging certain irregularities in the appraisal and recommendation of SEAC for revalidation of EC. As directed, a larger Sub Committee of the SEAC conducted a field visit on 24.08.2022 after giving notice to the stakeholders and complainant. The 135th SEAC directed the project proponent to comply with certain conditions to revalidate EC. Almost fifty percent of the project area falls within the moderate hazard zone. The project proponent submitted a statement that the proposed area is not falling in high or medium hazard zone, as per the Handbook on Disaster Management –Hazard susceptible Areas of Kerala, 2014. The 138th meeting of the SEAC directed the PP to submit CCR and audited statement of CSR expenditure. The Proponent submitted the documents.

The project proponent filed a WP(C) No.4913 of 2023, in which the Hon“ble High Court passed an interim Order dated.14.02.2023, directing the 1st respondent, the Geologist to issue

Movement Permit to the petitioner under KMMC Rules 2015, extending the benefit of the Notification under S.O.1807(E) dated.12.04.2022 of MoEF&CC, pending disposal of the writ petition. This will be subject to the availability of project life and mineable mineral reserves and on condition that the petitioner holds all other statutory permits/licenses/consent. There is no specific direction to SEIAA, who is the 3rd respondent.

Originally, the EC was issued for an area of 6.4863 ha with mine life of 17 years and almost 9 years will be over by the 7th month of 2021. The capacity of production as per the EC is 3,89,000 MTA. So only eight years remaining as per the EC. But the Mine plan approved in 27.07.2017 Plan is for an area of 5.3527 ha (Buffer area 1.4412 and mining area 3.9115 ha) with a life of mine of 12 years (but the production details is for 8 years only and as per that only eight years remaining) with the total minable reserve of 12,00,000 MTA (targeted annual production is 1,50,000 TPA) which was proposed to be extracted in 8 years. Further, the project proponent, as part of the revalidation, submitted a quarrying lease for an area of 5.3527 ha which is valid up to 13.05.2025 subject to the condition that the lease will become invalid if the lessee fails to renew the EC after 30.10.2018 (Condition No. 16 of Order No. 924/2015-16/3186/M3/2015 dated 26.03.2015 of Director of M&G). As per the Scheme of Mine approved on 17.6.2021, submitted by the PP, the year-wise production is for 12 years from 2021-2022 to 2032-2033 and the total minable reserve is 17,80,750 MT. The 138th meeting of SEAC held on 16th & 17th February 2023 observed that the expenditure towards committed CSR plan submitted by the PP is only a statement without any valid proof.

The committee examined the co-ordinates of the site superimposed on landslide hazard zone map and found that the dominant part of the area falls in the moderate hazard zone. Therefore, the proponent was directed to submit (i) Certified Compliance Report from MoEF&CC, Regional Office Bangalore and (ii) Certified Audited statement of the CSR expenditure. The proponent submitted the CCR from IRO, MoEF&CC, Bangalore vide No.12.1/201-14/SEIAA/ 17/KER/06 dated.31.03.2023 and an audit statement of CSR activities. The CCR stated that the quarry was not in operation due to the expiry of Environmental Clearance.

The 146<sup>th</sup> SEAC meeting held on 05<sup>th</sup> to 07<sup>th</sup> July 2023 heard the proponent and the Consultant and verified the documents submitted by the proponent and decided to direct the proponent to submit (i) CER proposal prepared as per norms based on need assessment study, (ii) Approval of the district level crisis management committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014 and (iii) Website address of the company. These documents are now uploaded in the Parivesh 2.0 portal and found them satisfactory.

**Considering the fact that the application was considered in accordance with the orders of the Hon. High Court of Kerala to revalidate the proposal in accordance with the directions contained in the Judgment dated 01.02.2021 in WP(C) No.2512 of 2021, the Committee decided to recommend revalidation of the EC for the project life of 17 years from the date of issuance of original EC, i.e., 22.11.2013 with the following specific conditions in addition to general conditions.**

1. All the specific conditions stipulated in the original EC dated 22.11.2013 shall form part of this EC as well.
2. Depth of mining should be limited to 205m above MSL so as to confine the mining to the terrain slope and prevent formation of mine pit to avoid water impoundment in the sloping terrain.
3. The natural drain in and around the proposed area should be preserved and drainage should be allowed without any hindrance.
4. The non-compliance, if any, reported in the CCR should be rectified within 6 months and the rectification report should be uploaded along with the HYCR.
5. A buffer distance of 100m should be maintained between the project boundary and all the built structures near the proposed site.
6. A temporary wall of 5m height should be provided at appropriate locations prior to the commencement of mining to avoid disturbance and nuisance to the nearby residences and other built structures.
7. The green belt should be initiated prior to the commencement of mining using indigenous species.
8. Compensatory afforestation should be done prior to the commencement of mining, by planting local species of trees in the land owned by the proponent, at the lower portion of the proposed site.
9. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
10. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
11. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
12. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay 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.
13. Geotagged photographs of the progress of compensatory afforestation should be submitted along with HYCR
14. 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.
15. The haulage road should be provided with sprinkling facility to prevent dust pollution.
16. 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).
17. 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.

18. 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).
19. Adequate sanitation, waste management and restroom facilities should be provided to the workers.
20. 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
21. 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
22. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
23. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

**Item No.15      Environmental Clearance for the Granite Building Stone Quarry of Sri. Johnson George for an area of 5.2794 Ha, at Survey No. S.F. Nos. (Field No. 2159, 2160, 2162 Not Final) in Koodaranji Village, Thamarassery Taluk, Kozhikode (Proposal No. SIA/KL/MIN/489918/2024)**

The Committee examined the proposal and discussed it in detail. The Committee observed that the proposed area is highly vulnerable from the point of view of land stability. Further the EIA document is not prepared with adequate details and most of the ToR are not addressed properly. 80% of the proposed area is in moderate hazard zone. In the FIR the Sub-committee mentioned that just above the western boundary connecting BP6 and BP1, the slope is extremely steep and the site extends from the ridge to almost to the lower slope. The terrain condition indicates the possibilities for landslides and soil erosion. During the Public consultation, 23 people spoke against and 13 people spoke for the proposed project. The main complaints are about (i) site is near highly populated area, (ii) area is landslide prone and there are past incidences of landslide in the area, (iii) damage to house due to fly rocks during 2011, (iv) expected high noise level and dust pollution, (v) expected siltation in agricultural land due to silt flow through the stream, (vi) area experienced landslide on August 15, 2012, (vii) site is near Malayora highway, (viii) nearness to Church of God, (ix) damage to the water tank of Cherupushpam water supply scheme located at a distance of 150m during 2012 landslide etc. Those who spoke for the project highlighted mainly the shortage of building materials, non-availability of materials nearby, possibility of having employment and livelihood to the local people etc. The Committee also noted the following shortcomings in the EIA report.

- a. Two additional studies were proposed in the ToR, (i) Land stability study with special focus on landslide proneness of the area and (ii) Impact of any interventions in the area including the previous mining activity. Regarding the first additional study, the Proponent got a study report namely Slope Stability Analysis Report by Dr. Ram Chandar Karra of National Institute of Technology, Suratkal. This study is essentially a stability analysis of benches based on Factor of Safety determined through

modelling studies using rock properties determined on the field samples in the laboratory. Though the study stated that the terrain slope is high with overall slope angle on the eastern side is around 47° and on the western side is around 51° and thick soil column, the landslide proneness of the area has not been assessed. There are apprehensions about the landslides in the area highlighted during the Public Hearing. The EIA report ignored the second additional study regarding impact of any previous interventions stating that the area is virgin. However, there is an old mine within or adjacent to the proposed site and other major interventions including mining within the impact zone. Thus, both the additional studies stipulated in the ToR are not done as directed.

- b. As per ToR-7, the description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest Compliance norms/conditions, the hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions and the system of reporting of non-compliances/violations of environmental norms need detailing, which is not found in the EIA Report.
- c. As per ToR 8, details of slope study, blasting study and proposed safeguard measures are to be provided. However, it is found missing in the EIA report.
- d. As per ToR 9, the EIA report mentions about the top soil and overburden during the life of mine, but no other waste is addressed.
- e. As per ToR 10, it is required to encompass preoperational, operational and post operational phases in the report, which is not found provided.
- f. As per ToR 11, it is required to provide the details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use. R&R issues, if any, etc. Since the mine lease area is not found suitable for storing/dumping top soil or overburden, no details as envisaged in the ToR is found provided.
- g. As per ToR 18, a detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] is needed. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should also be made as part of the project cost. The report list out 18 species of trees, 30 species of herbs and 26 species of climbers in 10 km radius of the proposed project area. However, assessment of the floral diversity has not been carried out in accordance with the zonation as outline in the ToR. Also, the frequency of observation and the methodology undertaken for such evaluations are not given. Similarly, the faunal diversity depicts the presence of 3 species of mammals, 2 species of reptiles, and 27 species of birds in 10 km radius of the proposed project site. The faunal diversity assessment report also lacks details with regard to the zonation of the

area under study. The methodology followed for the assessment is also not given in the report.

- h. As per ToR 22, it is required to provided site-specific meteorological data which is not found given. Also, the mineralogical composition of PM<sup>10</sup>, particularly for free silica, is not found provided.
- i. As per ToR 23, the air quality modeling has been found carried out. However, the ground level concentration is found to be relatively low even though the proposed activity is mining and intensive transportation of the mined material. The reason for the low ground level concentration of the pollutant is not found provided.
- j. As per ToR 24, the water requirement for the Project may not be adequate as the mining operation is proposed in a large area. The source of water given in the application and EIA report are different. So details may be provided after detailed study on the source of water and requirement.
- k. As per ToR 26, it is required to provide description of water conservation measures and details of rainwater harvesting proposed to be adopted in the Project, but it is not dealt with in the EIA report with details. Only general statements are provided. Similarly, impact of the Project on the water quality, both surface and groundwater, need detailed assessment based on which necessary safeguard measures need to be suggested.
- l. As per ToR 31, it is required to provide a time bound Progressive Greenbelt Development Plan in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. It is also required to provided phase-wise plan of plantation and compensatory afforestation clearly indicating the area to be covered under plantation and the species to be planted. While suggesting the plant species, it is required to consider the ecological value and utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution. The report recommends the planting of 1800 saplings belonging to 12 species in an area of 0.7364 Ha. The plant diversity assessment report (ToR 18) has not been taken into consideration for the selection of native species for planting activities, and the adaptability of some of the suggested species to such a habitat is doubtful. Also, the planting protocol suggested (area under planting and the number of saplings recommended for planting) is not in accordance with the topography of the area. A phase-wise plan for planting activities is missing in the report.
- m. As per ToR 32, it is required to provide the impact on local transport infrastructure due to the Project, but the projected daily movement does not seem to be matching with the production proposed for the mine. Further, the arrangements for improving the infrastructure is not addressed. It may be clarified whether the impact of Transportation study is done as per Indian Road Congress Guidelines.
- n. As per ToR 35, Occupational Health impacts anticipated of the Project and the proposed preventive measures are to be addressed in detail along with details of pre-placement medical examination and periodical medical examination schedules, project specific occupational health mitigation measures with required facilities proposed in the mining area. Such a detailing is not found provided in the EIA report.

- o. As per ToR 36, Public health implications of the Project and related activities for the population in the impact zone need to be systematically evaluated and remedial measures proposed along with budgetary allocations, but no such attempts have been found included in the report.
- p. As per ToR 38, it is required to provide detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project. However, the EMP is not found addressing the environmental impacts and mitigation measures adequately.
- q. As per ToR 39, Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project

The Committee observed that the following additional documents/details are necessary for the appraisal of the proposal further.

- 1. Meticulously revised EIA report as per the ToR approved incorporating all missing/relevant data, tables, annexures, eliminating faulty and ambiguous data and statements and other information.
- 2. The concerns raised during the Public Hearing are not addressed adequately and with details and plans
- 3. Revised site-specific and impact based EMP along with appropriate budgetary provisions
- 4. Certified recent location map incorporating all the built structures including residential houses within 200m radius
- 5. Revised CER as per the guidelines uploaded in the website of the SEIAA-Kerala
- 6. Authenticated copy of non-assignment certificate
- 7. Clarification regarding the top soil to be removed and stored for future use
- 8. Clarification regarding the ultimate mine depth as the details given in the mine plan shows that the mining will be conducted up to 125m above MSL, but the plates attached with the mine plan indicates that the mining will extend up to 90m above MSL.
- 9. Distance to the nearest wildlife sanctuary or such other ecologically sensitive zones based on authenticated data.
- 10. Photographs showing the boundary pillars fixed properly
- 11. Detailed drainage map for the project
- 12. Location and details of OB dumping site with proposed protection measures
- 13. Revised estimation of water requirement, water balance statement, proposed sources and their yield characteristics and sustainability
- 14. Source of water with consent letters, if not owned by the Proponent
- 15. Depth to the water table in the nearest dug wells along with geo-tagged photographs of the wells, distance to the well and the ground level relief of the location .



16. Geo-tagged location map of Compensatory Afforestation site along with site photographs, details of species proposed and ownership details
17. Plan for rainwater harvesting
18. Plan for energy conservation measures
19. Plan for sanitation and waste management
20. NOC from the District Level Crisis Management Group considering the moderate hazard zone and environmental fragility of the area.
21. 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.
22. Non-assignment certificate from Village Office.
23. Detailed drainage plan along with map showing drainage plan.
24. CER prepared as per the guidelines published on the SEIAA website.

**Based on discussion, the Committee decided to invite the Proponent for presentation. The presentation should address all the shortcoming in the EIA report as given above and the additional details as stated above. The PP should upload the PPT in the Parivesh portal.**

**Item No.16      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 District. (SIA/KL/INFRA2/491168)**

The Committee examined the proposal and discussed it in detail. **Based on the discussion, the Committee decided to invite the Proponent for presentation. The presentation shall be uploaded in the Parivesh.**

**Item No.17      Re-appraisal of EC issued by DEIAA for the Granite Building Stone Quarry of Sri. Prakashan P., Managing Director, M/s. Kayyar Aggregates Pvt Ltd for an area of 2.4767 Ha at Survey Nos. 242/3A(pt), 242/3A,3B, 242/3B(pt), 243/2(pt) in Kayyar Village, Manjeshwaram Taluk, Kasaragod (SIA/KL/MIN/459541/2024)**

The Committee examined the proposal and discussed the field inspection report conducted on 28.06.2024 and noted a Crusher Unit is situated within the project area. **Based on the above observations and discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Response to the non-compliance in the CCR
2. Geotagged photographs after shifting the Crusher Unit from the existing locality to a safer area maintaining a buffer distance of at least 50m.
3. The CER proposal is not satisfactory as it is not as per the guidelines published on the SEIAA website.

4. Revised compensatory afforestation plan along with geotagged photographs of the site, species proposed to be planted and ownership details of the land.
6. 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 and 4655 of 2024 dated 19.04. 2024.
7. Clarification regarding whether the EC transferred or not
8. Affidavit regarding the compliance to the conditions stipulated in the OM dated 10.12.2021 regarding the Procedure for handling EC transfer cases as per the provisions of S.O. 2817(E), dated the 13th July, 2021.
9. 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 Granite Building Stone Quarry of Sri. K J Thomaskutty, Managing Partner, M/s Shah Quarry for an area of 4.8894 Ha at Block no.41, Re-Survey No. 320/1, 320/1-2, 320/1-3, 320/1-4, 320/1-5, 320/1-2-2, 320/2-3, 320/2-4, 320/2-5, 320/2-6, 320/2-8, 320/2-10, 322/2-2, 322/2-3, 322/5, 326/2-2, 325/3, 324/5-1, 324/7, 324/5-1-2, 318/1-6, 320/3, 321/15, 321/28, 321/16, 322/7, 322/4, 318/1-2 in Chadayamangalam Village, Kottarakkara Taluk, Kollam District. (SIA/KL/MIN/468799/2024)**

The Committee examined the proposal and discussed the field inspection report conducted on 06.07.2024 and noted the following salient aspects in the field. The proposed site shares the boundary of the proposal under consideration (SIA/KL/MIN/469043/2024). There is another quarry in the southern side on the same hill top. The Committee observed that the environmental fragility of the site is very high. The EIA for both the proposal located adjacently is done together, but the public consultation was done separately. The public consultation, held on 5.3.2024, was attended by about 270 people and 55 individuals responded during the consultation and 31 written complaints were received. The public concerns raised in the public consultation has not been addressed fully in the EIA report. The Committee also considered a mass petition dated 08/03/2024 signed by about 37 people and another complaint filed by Sri. Kunjachan and Smt. Lillykutty, vide letter dated 12/03/2024 against the proposed quarry.

The Committee noted that most of the houses downslope is having wells and the wells on the side of the old quarry are dried up and therefore the dependence of bore-wells increased, affecting the local hydrology. There are problems due to boulders and the haulage road is passing through the buffer. The risk is very high due to OB dumping. There is loss of natural vegetation and compensatory afforestation plan is not well conceived. No protective measures have been given for the natural stream. There are complaints against the activities during the night time by the drivers, especially due to the parking in the populated areas. Adequate parking space is not provided for the vehicles and therefore the trucks are parked in the populated areas causing nuisance and other conflicts. The hill is surrounded by a large

number of houses. The interaction with complainants pointed out pollution problems, large number of vehicles on the old quarry site, insecurity due to parking of vehicles in front of the neighbouring houses, depletion of water resources, health impacts due to air pollution, damage to building due to blasting in the old quarry, improper management of OB dump in the old quarry and the risk of accident due to the old OB dump, pollution of the nearby stream water, problems due to fly rocks, changes in the course of the natural stream etc. Sri. Kuriechan and S/Smt. Kamala Beevi, Retnamma, Zeenath and more than 25 people interacted with the subcommittee during the field visit. The subcommittee also visited a few houses and found that the open wells are dry and there are crack developed in some houses, may be due to vibration

The Committee also noted the following shortcomings in the EIA report and in the documents provided along with the application.

1. ToR 28 and additional ToR 4 (specific ToR): Hydrogeological study is shown in the compliance table as annexure 15, however it is uploaded as annexure 14. The additional ToR is to study the impact of mining and change in land use and landform on the hydrology of the site and its impact zone considering the seasonal variation in the rainfall and ground water table and suggest mitigative/ management measures. However, the same has not been done appropriately. During the visit, the subcommittee observed that the surrounding wells are dried up (along the south side) due to the quarrying activity in the old quarry. The proposed quarrying activity (this proposal and M/s. Syju Lakshman quarry) will harm the hill and affect the hydrology. Such impacts are not mentioned the EIA study and not considered in the EMP. It is also necessary to provide the ground water level map and other related details.
2. ToR 8 and additional ToR 7: Slope Stability study is done only for the site, surrounding area has not been considered for the study. The site is having large boulders, and rock outcrops. Maximum soil thickness is observed as 2 m. The slope is very steep with large boulders and soil thickness up to 2m in some portions outside the project site, such as NE, N and NW directions. No study has been found conducted on the type of soils/soil profile which need clarification.
3. ToR 10: Post mine closure (Table 2.5): The table shows that afforestation program will be done at 2.3140Ha (the top benches shall be afforested with native plants). No explanation as to how this afforestation will be done using native plants on the benches where hard rock is exposed. An area of 0.6265Ha is proposed to be used as rain water harvesting, however no plan is given for its utilization. These points require explanation.
4. ToR 13: Compensatory afforestation plan – Detailed plan has to be prepared and submitted.
5. ToR 16 & 18: Biodiversity assessment is done only for the site proposed. However, the EIA study is carried out for an impact zone of 10km radius of the site. This has to be corrected.
6. ToR 11: OB and top soil dump area. The specific site for the OB dump is not finalized. Mine plan shows a site which is in the downslope (south) side of the site causing risk to the people residing in the downslope region if proper measurements

are not taken. During the field inspection, the proponent suggested north side of the old quarry, which is the catchment area of the stream passing through the eastern side of the old quarry. During the site visit, it was also observed that the OB dump of the old quarry was not properly maintained by the proponent and thereby causing a lot of problems and threat to the people residing in the downslope side and nearby natural stream, especially during the rainy season. Therefore, appropriate plan for the management of OB and top soil has to be submitted.

7. ToR 23: Silicate content of particulate matter has not been assessed as required.
8. ToR 26: The proposed site is part of the catchment area of various streams and ground water recharge area and the mining may significantly impact the nearby streams and groundwater regime. The proposed plan on water management is not found adequate and therefore, a detailed plan considering the issue in total is required.
9. ToR 28: The recommendations of hydrogeological study have not been considered during the preparation of EMP. Proper water harvesting and water recharging plans have to be incorporated. Plan for conservation of nearby natural streams is also required to be incorporated in the EMP.
10. ToR 39: Points raised by the public during the public consultation is not found adequately addressed. CER fund of Rs 67 Lakh is earmarked for addressing the issue of availability of water. The proposed plan for compensatory afforestation is also not adequate. During the field inspection, the subcommittee heard a lot of complaints on pollution, water sources, risk due to OB dump, damage due to vibration etc. which need to be properly addressed
11. ToR 42: disasters due to high surface runoff and chances of OB slide are not discussed as the entire hilltop will be affected by the mining. Therefore, the risk assessment should be specific considering also the high density of population around the hill.
12. Page 122 of the EIA report, the table (Table 10.2) is on species selected for avenue plantation. However, the paragraph referencing the table mentions the species selected for green belt development. Therefore, specific plan for green belt and avenue plantation are necessary.
13. Detailed Plan for parking of vehicles that are waiting for loading materials without affecting the local population.
14. The road to quarry is through the buffer which is not permissible and alternate plan shall be suggested.
15. Detailed drainage plan incorporating silt trap and siltation ponds and the connectivity to natural stream should be provided.
16. Detailed boulder management plan
17. The EMP failed to address many of the site-specific problems and the budget proposed seems to be inadequate to address all the impacts and appropriate mitigation measures. Therefore, a comprehensive EMP considering all the site-specific environmental issues and mitigation measures and also additional appropriate environmental improvement measures and revised budget should be prepared and submitted.
18. Modified project cost.

**Based on discussion, the Committee decided to invite the Proponent for presentation. Proponent shall consider all the observations as above and address the shortcomings and also respond to the points raised in the complaints. The PPT shall be uploaded to the Parivesh portal. The Committee also decided to direct the SEIAA Secretariat to provide a copy of the complaints filed dated 12/03/2024 and 08/03/2024 to the Proponent to the respondent.**

**Item No.19      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)**

As invited, Sri Sankara Bose, authorised representative of the Proponent and the RQP Sri. C Thambu Cherian were present. The RQP made the presentation. During the presentation, the Committee observed that the proposed site falls under the medium hazard zone and the environmental fragility is high. There are residential areas near to the site in the downslope regions. The project proponent has not submitted all the additional documents sought by the previous meeting. **Based on discussions, the Committee decided to direct the PP to submit the following additional documents.**

1. Contour map with 1m interval, Digital Elevation Model Map, Slope map, Ortho map of 5m interval generated through drone survey using LIDAR over the proposed project area and outside it up to about 500m distance all around.
2. Revised EMP prepared by a NABET accredited EIA consultancy incorporating the suggestions in the biodiversity assessment report and detailing the environmental issues predicted, mitigation measures and their action plan required and cost required for implementation of the action plan for the mitigation measures. The EMP submitted is sketchy as it does not detail the site-specific environmental issues, mitigation measures required and action plan including its implementation plan
3. 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.
4. Approval of the District Level Crisis Management Committee as the project site falls in medium hazard zone.
5. Detailed soil profile across and along the project site based on field level measurement as the one submitted does not contain adequate details
6. 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<sup>ble</sup> High Court of Kerala 19-04-2024.
7. The NOC from the District Level Crisis Management Group is to be submitted considering the project is in moderate hazard zone.

**Item No.20**      **Environmental Clearance for the Granite Building Stone Quarry of Sri. Syju Lekshman for an area of 4.998 Ha at Block no. 41, Survey Nos. Re-Survey Nos. 322/2-2-1, 322/1, 322/6, 323/3, 324/6, 324/9-2, 324/6-3, 324/5-2, 324/3-2, 324/3-3, 324/4 (private land), 325/1, 322/3, 323/2, 323/6, 323/7, 324/3 (govt. land) in Chadayamangalam Village, Kottarakkara Taluk, Kollam District. (SIA/KL/MIN/469043/2024)**

The Committee examined the proposal and discussed the field inspection report conducted on 06.07.2024 and noted the following salient aspects in the field. The proposed site shares the boundary of the proposal under consideration (SIA/KL/MIN/468799/2024). There is another quarry in the southern side on the same hill top. The Committee observed that the environmental fragility of the site is very high. The EIA for both the proposal located adjacently is done together, but the public consultation was done separately. The public consultation, held on 6.3.2024, was attended by about 235 people and 35 individuals responded during the consultation and 8 written complaints were received. The public concerns raised in the public consultation has not been addressed fully in the EIA report. The Committee also considered a mass petition received in SEIAA on 18.7.2024 signed by the Secretary, Action Council, Nadathara and about 50 other people against the proposed quarry. The local hydrology seems to have been impacted as reflected in the dug wells. There are loss of natural vegetation and commensurable plan is not proposed in the compensatory afforestation plan. There are also problems concerning large boulders and the OB dumping in the slope region and the hill is surrounded by large number of houses. The interaction with complainants pointed out pollution problems, large number of vehicles on the old quarry site, insecurity due to parking of vehicles in front of the neighbouring houses, depletion of water resources, health impacts due to air pollution, stream water pollution, problems due to fly rocks etc.

The Committee also noted the following shortcomings in the EIA report and in the documents provided along with the application.

1. ToR 28 and additional ToR 4 (specific ToR): Hydrogeological study is shown in the compliance table as annexure 15, however it is uploaded as annexure 14. The additional ToR is to study the impact of mining and change in land use and landform on the hydrology of the site and its impact zone considering the seasonal variation in the rainfall and ground water table and suggest mitigative/ management measures. However, the same has not been done appropriately. During the visit, the subcommittee observed that the surrounding wells are dried up (along the south side) due to the quarrying activity in the old quarry. The proposed quarrying activity (this proposal and M/s. Syju Lakshman quarry) will harm the hill and affect the hydrology. Such impacts are not mentioned the EIA study and not considered in the EMP. It is also necessary to provide the ground water level map and other related details.
2. ToR 8 and additional ToR 7: Slope Stability study is done only for the site, surrounding area has not been considered for the study. The site is having large boulders, and rock outcrops. Maximum soil thickness is observed as 2 m. The slope is very steep with large boulders and soil thickness up to 2m in some portions outside

the project site, such as NE, N and NW directions. No study has been found conducted on the type of soils/soil profile which need clarification.

3. ToR 10: Post mine closure (Table 2.5): The table shows that afforestation program will be done at 2.3140Ha (the top benches shall be afforested with native plants). No explanation as to how this afforestation will be done using native plants on the benches where hard rock is exposed. An area of 0.6265Ha is proposed to be used as rain water harvesting, however no plan is given for its utilization. These points require explanation.
4. ToR 13: Compensatory afforestation plan – Detailed plan has to be prepared and submitted.
5. ToR 16 & 18: Biodiversity assessment is done only for the site proposed. However, the EIA study is carried out for an impact zone of 10km radius of the site. This has to be corrected.
6. ToR 11: OB and top soil dump area. The specific site for the OB dump is not finalized. Mine plan shows a site which is in the downslope (south) side of the site causing risk to the people residing in the downslope region if proper measurements are not taken. During the field inspection, the proponent suggested north side of the old quarry, which is the catchment area of the stream passing through the eastern side of the old quarry. During the site visit, it was also observed that the OB dump of the old quarry was not properly maintained by the proponent and thereby causing a lot of problems and threat to the people residing in the downslope side and nearby natural stream, especially during the rainy season. Therefore, appropriate plan for the management of OB and top soil has to be submitted.
7. ToR 23: Silicate content of particulate matter has not been assessed as required.
8. ToR 26: The proposed site is part of the catchment area of various streams and ground water recharge area and the mining may significantly impact the nearby streams and groundwater regime. The proposed plan on water management is not found adequate and therefore, a detailed plan considering the issue in total is required.
9. ToR 28: The recommendations of hydrogeological study have not been considered during the preparation of EMP. Proper water harvesting and water recharging plans have to be incorporated. Plan for conservation of nearby natural streams is also required to be incorporated in the EMP.
10. ToR 39: Points raised by the public during the public consultation is not found adequately addressed. CER fund of Rs 67 Lakh is earmarked for addressing the issue of availability of water. The proposed plan for compensatory afforestation is also not adequate. During the field inspection, the subcommittee heard a lot of complaints on pollution, water sources, risk due to OB dump, damage due to vibration etc. which need to be properly addressed
11. ToR 42: disasters due to high surface runoff and chances of OB slide are not discussed as the entire hilltop will be affected by the mining. Therefore, the risk assessment should be specific considering also the high density of population around the hill.
12. Page 122 of the EIA report, the table (Table 10.2) is on species selected for avenue plantation. However, the paragraph referencing the table mentions the species selected

for green belt development. Therefore, specific plan for green belt and avenue plantation are necessary.

13. Detailed Plan for parking of vehicles that are waiting for loading materials without affecting the local population.
14. The road to quarry is through the buffer which is not permissible and alternate plan shall be suggested.
15. Detailed drainage plans incorporating silt trap and siltation ponds and the connectivity to natural stream should be provided.
16. Detailed boulder management plan
17. The EMP failed to address many of the site-specific problems and the budget proposed seems to be inadequate to address all the impacts and appropriate mitigation measures. Therefore, a comprehensive EMP considering all the site-specific environmental issues and mitigation measures and also additional appropriate environmental improvement measures and revised budget should be prepared and submitted.
18. Modified project cost.
19. Risk assessment and mitigation measures for the boulders present in the buffer region and adjacent to the project area
20. Status of NOC for the Government Land

**Based on discussion, the Committee decided to invite the Proponent for presentation. Proponent shall consider all the observations as above and address the shortcomings and also respond to the points raised in the complaints. The PPT shall be uploaded to the Parivesh portal. The Committee also decided to direct the SEIAA Secretariat to provide a copy of the complaints received on 18.7.2024 to the Proponent to the respondent.**

The Committee decided to convene its 171<sup>th</sup> meeting on 23<sup>rd</sup> September 2024 (Online) and 172<sup>nd</sup> Meeting on 7-9 October 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	03.09.2024	04.09.2024	05.09.2024
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 (Online)	X	✓	X
6.	Dr.C.C. Harilal	✓	✓	✓
7.	Dr.K.VasudevanPillai	✓	✓	✓
8.	Dr. Mahesh Mohan	✓	✓	✓
9.	Dr. K.N. Krishna Kumar	✓	✓	✓
10.	Sri.V. Gopinathan	✓	✓	✓
11.	Dr.A.V. Raghu	✓	✓	✓
12.	Dr.N. Ajithkumar	X	X	X
13.	Suneel Pamidi ( <b>Secretary</b> )	X	X	✓