

discussions, the Committee decided to give two weeks time to the Proponent to submit detailed hearing note.

The Committee noted that the Judgment was received on 25.05.2023 and the time limit ends on 24.07.23. Hence Committee decided to entrust Legal Officer, SEIAA to file an extension petition for a period of 2 months from the Hon'ble High Court of Kerala under intimation to SEIAA.

147.04 Preparation of draft guidelines of Utilization of Environment Benefit Fund for the site-specific Environmental restoration activities as directed by Hon'ble Court.- reg:- (File No: 520/A1/2022/SEIAA)

Decision: The Committee discussed the item and observed that the DoECC was entrusted to take necessary steps to create an Environment Benefit Fund. The Member Secretary, SEAC informed that a draft guideline is being prepared which will be made available to the SEAC and the Committee decided to provide its input after receiving it.

147.05 Environmental Clearance issued to Sri. Sreelath. T, for the Granite Building Stone Quarry Project, at Re-Sy. Block No.7, Re.Sy.No.93/27 in Raroth Village, Thamarassery Taluk, Kozhikode, Kerala- Judgment dated.19.12.2022 in WP(C) No. 34050/2022. (SIA/KL/MIN/271936/2022 1995/EC4/2022/SEIAA)

Decision: The Committee examined the decision of SEIAA and discussed it in detail. Accordingly, the Committee decided that the recommendation made on the project in the 133rd SEAC meeting stands valid as such except the condition stipulated on Wildlife Clearance from SCNBWL.

PART 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/IND1/405847/2022 , 1972/EC3/2022/SEIAA M/s. Met Rolla Steels Pvt. Ltd., proposed to expand the existing M S ingots/Billets and MS/TMT bars industrial unit at Sy.No. 1048/16-1, 1048/1-36, 1048/16-2-2, 1048/15-3-2, 1048/15-2-30, 1048/15-1, 1054/28-1, 1054/28/2, 1052/2/3, 1052/1/6, 1052/2/2, 1052/1/5, 1052/2/4, Mulavoor Village, Paipra Grama Panchayat, Pezhakkappilly P.O, Muvattupuzha Taluk, Ernakulam District, Kerala – 686 674 in existing site area of 2.91 ha (7.2 acres) (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. The Committee discussed the field inspection report and the additional document submitted and **decided to recommend EC** subject to the following specific

conditions in addition to standard conditions stipulated as per OM dated 9.8.2018 of the MoEF&CC.

1. Green belt should be developed as per the plan and geotagged photographs 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 level should be monitored regularly upto 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 roof of new buildings should be used for tapping and using more Solar energy.
8. Regular occupational health check-up and safety drill 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.

2. SIA/KL/INFRA2/407333/2022, 1993/EC3/2022/SEIAA

M/s NBCC (I) Ltd for the project “Valley view apartments” at block No. 39, Resurvey No.93/9, village Puthencruz, Ward No.-II, Taluk Kunnathunad, District Ernakulam, Kochi, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and decided to recommend EC as per the O M dated 07.07.2021 of MoEFCC pertaining to violation cases. Based on discussions, the Committee **decided to recommend EC for a period of 7 years** subject to the following Specific Conditions in addition to the General Conditions including that stipulated vide OM dated 14.11.2018 of the MoEF & CC.

1. The proponent should remit the Bank Guarantee equivalent to the amount of remediation plan and natural and community resource augmentation plan as per the OM dated 07.07.2021 of the MoEF& CC. The proponent should also remit the penalty as per the provisions in OM dated 7.7.2021 of the MoEF& CC.
2. The proponent shall implement the activities approved as per the Remediation Plan and Natural and Community Resource Augmentation Plan within 3 years.
3. The bank guarantee will be released after the completion of the implementation of remediation plan and natural and community resource augmentation plans and their compliance verification.

4. Adequate built-in composting facility should be set up for the treatment of biodegradable waste within the premises.
5. Adequate and covered storage area should be provided for the storage of nondegradable waste and e-waste generated for at least 30 days. The non-degradable solid waste (dry waste) so stored should be handed over to Recyclers/ Local body/ Vendors on a regular basis.
6. Fruit bearing trees of indigenous species should be planted in the Green Belt area / open space, compensatory afforestation area/ children play area, including avenue plantations.
7. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
8. Appropriate storm water drainage plan should be implemented covering the entire project area and considering the soil cover and levels of the project area and adjoining areas.
9. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow.
10. Usage of energy saving 5 star rating equipment such as Solar Geyser and LED lamps should be promoted as part of energy conservation.
11. Two line plumbing system should be established for ensuring the reuse of treated waste water for flushing, gardening and other uses.
12. Climate-responsive and Green Building Guidelines should be adopted and the roof area and covered parking should be covered with material having high solar reflective index.
13. The building design should ensure that it will cater to differently-abled citizens.
14. CER Plan should be implemented as proposed within two years and the systems installed should be maintained on a regular basis. The progress of implementation of CER should be provided in the HYCR.
15. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.
16. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
17. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
18. Vegetation should be grown appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.
19. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.

20. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.

3. SIA/KL/MIN/135414/2020, 1601/EC2/2019/SEIAA

Environmental Clearance to Sri.K.K.Balakrishnan Nair for Granite Building Stone Quarry over an extent of 0.5297Ha in survey No.143/1 at Kolathur Village, Kasargod Taluk, Kasargod District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent. The total mineable reserve is 50,525MT and mine life is 5 years. The nearest built structure is at 200m. The depth to water table is reported as 58m, which seems to be ambiguous. The elevation of the site varies from 65-100m above MSL and the same after mining will be 57-100m above MSL. Based on discussions, the Committee **decided to recommend EC for a mine life of 5 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. 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).
5. 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.
6. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
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. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
12. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power

13. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
14. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

4. SIA/KL/MIN/152389/2020, 1738/EC4/2020/SEIAA

Environment Clearance for the Granite Building Stone Quarry of M/s. Kottiyoor Metals Private Limited' over an extent of 4.8171 Ha.in Re-Sy. Nos. KPD 833, KPD 836, KPD 1148, KPD 838 of Kelakam Village, Iritty Taluk, Kannur District, Kerala State, India. (FIR Received)

Decision: The Committee discussed the field inspection report conducted on 11.06.23 and observed the following:

1. The site is under a healthy rubber plantation
2. Soil thickness is relatively high at the S-E portion of the proposed area and the steepness of the slope is significant.
3. The site is adjacent to a high hazard zone and therefore, susceptible to land failures and the area is known for natural disasters in the recent years.
4. A first-order seasonal stream is located within the project area.
5. A crusher and office building is situated within 25m at the southern border of the proposed area.
6. The proposed area falls on the mid part of a steep sloping hill flank of relief 583m above MSL.
7. The entire area of the proposed project falls in moderate hazard zone and high hazard zone is located 20m east of the proposed project boundary.
8. A granite building stone quarry of M/s.Kottiyur Metals Pvt.Ltd. is located at eastern margin of the proposed project boundary. The area of the quarry is 1.6Ha of which about 0.26Ha is falling within the proposed project area. The mining lease of the above-mentioned quarry expired on 29.02.2020. The additional documents dated 11.04.2023 uploaded in Parivesh portal states that there is no overlap between the adjacent quarry and the proposed one (Figure shown below) but the google image of 21.02.2022 shows that about 0.26Ha of the adjacent quarry falls in the proposed project area. More over the image indicate a breach of mining lease boundary
9. Soil thickness is high (6 to 8m) at south eastern border of the proposed project area.
10. The Aralam wildlife sanctuary is within 5 km of the proposed site. Also, Kottiyoor Wildlife Sanctuary is situated 3 km away from the proposed site.
11. The site is an extension of Brahmagiri hill range which is an ecologically sensitive area. The core and buffer areas are mostly of natural vegetation- deciduous forests which are surrounded by less amount of rubber plantations. The density of mammals and bird species is higher and the chances of the presence of more species are highly possible. Migratory species are previously recorded from nearby places eg: Peregrine

falcon was spotted at Aralam WLS in 2022. More such species may be present in the nearby places.

12. The site is situated between Aralam and Kottiyoor WLS and it can be a wildlife corridor or migratory route for wildlife lies in and out of the core area.
13. There are streams passing through the core zone which reaches the Cheenkanni river which is situated 1km away from the core zone.
14. The faunal diversity of the proposed site consists of several endemic, migratory and threatened species. The area is favorable for small and larger mammals. The lack of availability of favorable habitats nearby indicates that the study area might be the remaining patches for the animals inhabiting around. Any mining activity in that region can severely affect the fauna of the local region. Mining activity in the proposed site can severely affect the biodiversity of the landscape.
15. The proposed activity will have significant adverse impacts on various environmental aspects covering land, water, biological and social environment.

Based on the above observations, the **Committee decided to recommend rejection of the proposal invoking Precautionary Principle as the environmental fragility with respect to the area involving the site is very high.**

The Committee also verified a representation dated 10.06.2023 submitted to the MoEF&CC alleging that the Kottiyur Metals in Kannur is violating the regulatory provisions and creating environmental concerns in the area. The complaint is mainly about the adjacent quarry which worked till 2020 (and not closed yet) as well as regarding the vulnerability of the area in which the site is located. The **Committee decided to recommend to SEIAA to seek remarks from the proponent on the complaint after providing a copy of the complaint as well as take necessary actions, if any required. It is also suggested that the MoEF&CC may be informed of the action taken.**

5. SIA/KL/MIN/165802/2020, 2191/EC2/2023/SEIAA

Environment Clearance to Sri. Udayan S for Granite Building Stone Quarry over an extent of 0.4445 Hectares in Survey Nos. 41/6-2, 41/7pt , 41/8pt, 41/9-3, 41/9-4-1 & 41/9-4-1-2 at Velinalloor Village, Kottarakara Taluk, Kollam District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and noted that the total mineable reserve is 53,188 MT and the project cost is Rs. 63.2 Lakh. The expected life of mine is about 1 year. The highest and lowest elevations are 67m & 55m above MSL respectively. The landslide hazard zones are beyond 11.6 Km from the proposed area. The presentation was done in the 144th SEAC meeting. The Committee observed that the site is located adjacent to an old quarry pit and the width of the dominant part of the site vary from 20-67m and the proposal is to extract rock upto a depth of 20m in the wider part of the site. Based on discussions, **the Committee decided to recommend EC for a mine life of 1 year** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. 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).
5. 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.
6. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
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. CER Plan should be implemented within the first year and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
12. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
13. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
14. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.

**6. SIA/KL/MIN/179645/2020, 1908/EC3/2021/SEIAA
Granite Building Stone Quarry of Smt. Sneha Jose " over an extent of 3.0876 Ha.
at Re-Survey Block No: 46, Re-Sy. Nos. 132, 134/1, 134/2, 134/2-2, Kondoor
Village, Meenachil Taluk, Kottayam District, Kerala (FIR Received)**

Decision: The Committee discussed the field inspection report conducted on 12.06.23. The mineable reserve is 823360.25 MT. The life of Mine is 7 years. The project cost is 617 Lakh. The presentation was done in the 138th meeting. Based on discussions, the **Committee decided to recommend EC for a mine life of 7 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using native tree species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. Considering the depth to water table, the depth of mining should be limited to 40m above MSL.
4. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
9. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first year and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.

7. SIA/KL/MIN/183677/2020, 1849/EC4/2020/SEIAA

Environmental Clearance for the Proposed Granite Building Stone Quarry of Sri.K.C.Krishnan, over an extent of 0.6199 Ha at Sy. Nos. 173/1, 173/3, in Maruthonkara Village, Vadakara Taluk, Kozhikode District, Kerala. (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and noted that the Malabar Wildlife Sanctuary is located at around 4km and a quarry office is at 29m as per the survey map. Based on discussions, **the Committee decided to direct the proponent to submit the following additional documents:**

1. Proof of application submitted to the SCNBWL for Wildlife Clearance.
2. Plan for maintaining a buffer of 50m between the project area and built structures.

8. SIA/KL/MIN/251165/2022 , 2012/EC1/2022/SEIAA

Environmental Clearance for Granite Building Stone quarry of Mr. KV Radhakrishnan in Re.syNo.-471/1(P) and 471/4(P) in Kuzhalmannam -1 Village, Alathur Taluk, Palakkad District, Kerala. (ADS Received)

Decision: The Committee verified the documents submitted by the proponent. The Committee observed that the mineable reserve is 65,187 MT (14,800 MTA) and the mine life is 5 years. The hazard zone is at 18.12km. The presentation was done in the 134th meeting of SEAC. The proposal is to rework an old quarry filled with water. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years** (as per the Mine Plan) subject to the following Specific Conditions in addition to the General Conditions:

1. Adequate measures should be adopted to prevent any breach of harvested water in the existing quarry.
2. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.

7. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
 8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
 9. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
 10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
 11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
 12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
 13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
 14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
 15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
 16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.
- 9. SIA/KL/MIN/267357/2022, 2034/EC3/2022/SEIAA**
Environment Clearance for mining permit of M/s Perumannoor Granites Private Limited over an extent of 3.5238 Ha at Sy No. 611/1A/19W/17, 611/1A/19W/19, 611/1A/83/13/16, 611/1A/84/14/23 & 611/1A/196/73/2. Keerampara Village, Kothamangalam Taluk, Ernakulam, Kerala (Referred from 128th SEIAA)

Decision: The Committee examined the file and discussed the direction of SEIAA to reconsider the earlier decision in SEAC taken in the 142nd meeting in the light of the Cluster Certificate submitted dated 04.04.23. However, such a Cluster Certificate is not found uploaded. Therefore **the Committee decided to defer the item and direct the proponent to upload the same in the Parivesh Portal. The proponent should also submit the proof of application submitted to SCNBWL for Wildlife Clearance.**

- 10. SIA/KL/MIN/272893/2022,2087/EC3/2022/SEIAA**
Environmental Clearance for the Mining of Building Stone Quarry project of Sri. M. G. Babu in an area of 0.9105 hectares. at Survey Nos. 725/1, 725/2-2, 725/2-3, 725/2, 725/2, in Kallorkad Village, Muvattupuzha Taluk, Ernakulam, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. The Committee observed that the mineable reserve is 138603 MT and annual production is 27720.6 MTA. The mine life is 5 years. The source of water is an old quarry pit. The nearest house is at 102m and another built structure is at 80m. The presentation was done in the 141st meeting of SEAC and field inspection was conducted on 20.05.23. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years** subject to the following Specific Conditions in addition to the General Conditions:

3. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
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. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
7. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream.
8. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
9. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
10. 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. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
14. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
15. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
16. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.

11. SIA/KL/MIN/277649/2022 , 2105/EC6/2022/SEIAA

Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Arif for an area of 2.3045 Ha in unsurveyed Land in Kurumbalangode Village, Nilambur Taluk, Malappuram District (ADS Received)

Decision: The Committee examined the application and verified the documents submitted by the proponent and noted the following:

1. The ESA status submitted by the proponent is not in consonance with the decision taken by SEIAA in its 123rd meeting.
2. Ecological sensitivity data for 10km is not submitted
3. The Mine Plan along with tables and figures are not found uploaded
4. The Survey map is not legible.
5. CER plan includes only a demand letter from Project Officer, ITDP, Nilambur

In the above circumstances, the application cannot be appraised and hence may be delisted.

12. SIA/KL/MIN/279495/2022; 2115/EC3/2022/SEIAA

Environment Clearance for the Granite Building Stone Quarry E.M. Madhu for an extent 0.9845 Ha. at Sy. No. 324/1, 318/7, 318/1 in Moonilavu Village, Meenachil Taluk, Kottayam, Kerala (FIR Received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 12.06.23. The mineable reserve is 1,47,290MT (29458 TPA) and the mine life is 5 years. The nearest built structure is 52.2m from the proposed area. The Idukki Wildlife Sanctuary is at 12.58 Kms. The project cost is 314.10 Lakh. The highest elevation is 110m above MSL and the lowest elevation is 75 m above MSL. The High Hazard Zone is 440 m and Medium Hazard Zone is 110 m away from the proposed mining area. The Committee observed the following:

- a) The site is located in between medium hazard zones
- b) EMP is not site specific. It has not considered the slope of the region and the presence of the natural stream
- c) The road to the quarry is very narrow and is inadequate for quarry operation.
- d) The natural stream is very close to the site (<40 m) and the slope of the portion of land between the boundary of the site and stream is significantly high.
- e) There will be serious constraints to provide siltation pond and silt-trap structures in such a portion of slope land and therefore, the contaminated water will get drained to the adjacent stream.

- f) Moonilavu is situated in the foot hills of the Western Ghats of the region and environmentally, it is a highly sensitive region for further developmental activities.
- g) Moonilav is also disaster-prone region with flash floods due to high intensity rainfalls. The landscape changes may intensify such disaster.

The Committee decided that it is not desirable to recommend the proposal for environmental clearance as the factors causing adverse impacts as stated above are appreciable or significant. In the circumstance, the Committee decided to hear the proponent regarding the possibility of corrective measure, if any, to mitigate the adverse impacts due to the observations made above.

13. SIA/KL/MIN/280530/2022, 2088/EC3/2022/SEIAA

Environment Clearance for mining permit of Granite Building Stone Quarry of "Sri. Tom George" over an extent of 2.0508 Ha at Sy No.: 80/5/B, 80/6 & 82/2/B, Palakuzha Village, Muvattupuzha Taluk, Ernakulam, Kerala (Referred from 128th SEIAA)

Decision: The 128th meeting of the Authority noticed that the depth to water table is mentioned as 9.68 m below ground level in FIR and elevation is 55-100m and the ultimate depth is 25 m. Then the mine pit depth is 30m. As per Mining Plan water level is 4m below ground level. In order to seek clarification on this, the Authority referred the proposal back to SEAC. The Committee examined the direction of the Authority and found that the 136th meeting of the SEAC observed the need for limiting the depth of mining to 45m above MSL and it was again restated in the field inspection report based on site inventory. However the Committee failed to state it as a condition for environmental clearance due to oversight. Based on discussions, **the Committee decided to recommend environmental clearance to the proposal with mine life of 8 years** subject to the following specific conditions in addition to general conditions.

1. The depth of mining should be limited 45m above MSL considering the depth to water table.
2. A buffer distance of 50m should be provided between the boundary of the crusher and the boundary of the proposed mine
3. A temporary wall of height 5m should be provided between BP2, BP3, BP4, BP5 & BP6.
4. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
5. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.

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

14. SIA/KL/MIN/284471/2022 , 2112/EC1/2022/SEIAA

Environmental Clearance for the proposed Granite (Building Stone) Quarry of Sri.Ashwin K. J, Designated Partner , M/s Pridhvi Granites LLP, in Block No:29, Re-Survey Nos: 34/4, 34/5 in Kavassery -I Village, Alathur Taluk, Palakkad District, Kerala (FIR Received)

Decision: The Committee examined the proposal discussed the field inspection report conducted on 14.06.2023. The mineable reserve is 11 28 200 MT (94 000 TPA) and mine life is 12 years. The depth to watertable is 20m bgl. The presentation was done in 142nd SEAC meeting. Based on discussions, **the Committee decided to recommend EC for a mine life of 12 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.

2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The depth of mining should be limited to 55m above MSL considering the depth to water table.
4. 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).
5. 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.
6. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
7. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
8. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.
9. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.

15. SIA/KL/MIN/291136/2022 , 2111/EC1/2022/SEIAA

Granite Building Stone Quarry of Sri. Jayesh Thomas in Survey Block No. 31, Re. Survey No.317/10, 317/11, 317/3, 317/12 in Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and found them satisfactory. Since the project was delisted in the initial stages of

the appraisal owing to its location in an ESA village, it was not appraised in detail. Therefore, **the Committee decided to invite the proponent for a presentation.**

16. SIA/KL/MIN/401155/2022 , 2123/EC1/2022/SEIAA

Granite Building stone Quarry of Mr. J. Madhusoodhanan in Block No. 35, Re-Survey Nos. 352/7, 353/1, 353/2, 353/2-1, 353/3, 353/4, 353/8, 353/9, & 354/2 in situated in Nedumangad Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent. It is noted that the proponent has not submitted all the documents sought. The documents such as CER as per norms, Plan for developing a road to the top level of the site and its engineering plan etc., are yet to be submitted. Based on discussions, **the Committee decided to invite the proponent for a presentation.**

17. SIA/KL/MIN/402776/2022, 2203/EC4/2023/SEIAA

Environmental Clearance for the Proposed Laterite Building Stone Quarry of Sri. Abdul Asees K.P, in Re-Survey No. 46/986 of Kalliad Village, Iritty Taluk, Kannur District, Kerala for an extent of 0.2914 Ha (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found that the mineable reserve is 25, 497.5 MT for a mine life of 1 year. The project cost is 8 lakhs. Based on discussions, **the Committee decided to recommend EC for the life of mine of one year** subject to the following Specific Conditions in addition to General Conditions:

1. The excavation activity associated 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 a useful purpose.
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 the breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/labourers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of the adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.

12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm)

18. SIA/KL/MIN/403878/2022, 2132/EC4/2022/SEIAA

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri. Abdul Asees K.P, in Block No. 92, Re-Survey No: 23/813 of Kaliyad Village, Iritty Taluk, Kannur District, Kerala for an extent of 0.1943 Ha (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found that the mineable reserve is 17001 MT and mine life is 1 year. The project cost is 5 Lakhs. Based on discussions, **the Committee decided to recommend EC for the life of mine of one year** subject to the following Specific Conditions in addition to General Conditions:

1. The excavation activity associated 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 a useful purpose.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/labourers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.

14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm)

19. SIA/KL/MIN/407128/2022, 2154/EC3/2022/SEIAA

Environmental Clearance for the mining of Building Stone Quarry project for an Area of 3.1424 Ha of Nissamudeen K S at Thirumarady Village, Muvattupuzha Taluk, Ernakulam District, Kerala (Referred from 128th SEIAA)

Decision: The 128th meeting of the SEIAA considered the decision of the 142nd SEAC directing the proponent to submit revised mining plan and intimating the Authority that the proponent seems to have violated the EC conditions as inferred from the satellite imagery. The Authority decided to refer back the proposal to SEAC for further action with directions that (i) If the project proponent violated the EC conditions, SEAC has to verify the same and have the freedom to direct the project proponent for submitting a damage assessment report by a NABET-accredited agency for assessing the penalty for the non-compliance with EC conditions and (ii) Intimate Mining and Geology Department to take necessary action if the project proponent has violated the KMMC Rules and the norms in the mining plan. The Committee discussed the directions of the Authority and based on discussions, **the Committee decided to direct the project proponent to submit the following documents:**

1. CCR from IRO, MoEF &CC, Bangalore for the adjacent quarry site owned by the proponent.
2. Revised Mining Plan.

20. SIA/KL/MIN/407637/2022 , 1747/EC1/2022/SEIAA

Granite Building Stone Quarry in Re-Survey Nos. 98/2-1, 98/1, 98/1-1 in Nellanad Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala by Sri. Abdul Nazar A (Re uploaded the previous proposal No.SIA/KL/MIN/161967/2020) (Referred from 128th SEIAA)

Decision: The Committee noted the direction of SEIAA in its 128th meeting and **decided to invite the proponent for a hearing in the next meeting.**

21. SIA/KL/MIN/408714/2022, 2198/EC1/2023/SEIAA

Granite Building stone quarry of Sri. Moideen. P for an Extent of 0.7352 Hectares at Survey No. 279/1A2 and 278 of Thirumittacode - I Village, Pattambi Taluk, Palakkad, Kerala (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and found them satisfactory except providing a legible survey map. Hence the **Committee decided to invite the proponent for a presentation.**

22. SIA/KL/MIN/409809/2022, 2177/EC1/2022/SEIAA

Building Stone quarry of Sri. John Thomson, M/s. Tropical Granites in Re Survey Nos. 649/2, 649/3, 651/1, 651/2, 651/3, 651/4, 651/5, 651/6, 652/20 & 652/2, Re survey Block no.12 of Kuthanur1 Village, Alathur Taluk, Palakkad District, Kerala for an area of 2.6262 Ha (FIR Received)

Decision: The Committee discussed the filed inspection report conducted on 14/06/2023. The mineable reserve is 8,84,813 MT (88,480 TPA) and life of mine is 10 years. The highest elevation is 135 m MSL and lowest elevation is 115 m MSL. The moderate hazard zone is at 8.04 Km. The Chulanur Peafowl Sanctuary is situated at 8.2km. The Committee observed that the nearby abandoned quarry pit is not fenced properly and there are two built structures within 50m distance and the proponent has agreed to demolish them, if necessary. The Committee also found the following shortcomings:

1. Present land use details
2. Site-specific EMP with budget for entire life of mine.
3. CER plan based on stakeholder consultation preferably with focus on the local water needs.
4. Water requirement and availability.
5. Compensatory afforestation plan along with coordinates of the proposed site, Geotagged photographs of the proposed site and the ownership details/consent of the land owner.
6. OB dump location with geo coordinates.
7. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
8. Letter from DFO regarding the distance of the site from the sanctuary, details of the proposed ESZ around the Choolannur bird sanctuary, and whether the site falls within the ESZ along with copy of the application submitted to the SCNBWL.

Based on discussions, **the Committee decided to invite the proponent for a presentation.**

23. SIA/KL/MIN/45722/2019, 1591/EC4/2020/SEIAA

Environmental Clearance to Smt. S Jayasree for Silica Sand mining of over an area of 1.0552 Ha. (2.6074 Acres) in Sy. Nos. 58/11B1, 58/11B2, 58/14 at Panavally Village, Cherthala Taluk, Alappuzha District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and noted that there is a temple and houses adjacent to the project site. As per the application and the Mining Plan, the proposed area is 1.0552Ha whereas the letter of intent is only for 0.9157 Ha. Based on discussions, **the Committee decided to invite the proponent for a presentation.**

24. SIA/KL/MIN/53095/2020, 1668/EC6/2020/SEIAA

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. (FIR Receive)

Decision: The Committee examined the proposal and discussed the field inspection report. The Committee observed that it is necessary to modify the EIA report considering the following observations.

1. The method followed for assessing the environmental impacts of the project is not mentioned. Also, the direct, indirect, cumulative and residual impacts are not categorized.
2. The study carried out on the specific aspects, given along with standard ToR, are not described in detail in the EIA report. The study on the impact on road traffic does not provide a material transportation management plan, as directed. Similarly, replenishment and recharge issues are not seen addressed.
3. The mined materials have to be transported initially through a plantation road and then through Areecode-Edavanna road (State Highway). The same PCU of 1600 is applied for both the roads which cannot be correct. The length of the plantation road through which the material from all the five quarries has to be transported, is also not provided.
4. The faunal study mentioned in the report is not found satisfactory. The Centipede and Millepede are included in the list of Reptiles. The Bird and Butterfly lists are incomplete. Mabuya and lizards are very common species seen but not seen listed. A list of amphibians also is missing.
5. As per the attendance sheet, Public consultation was attended by 59 people. All the 26 persons who spoke were against the proposed projects. The presence of mud-stained water in streams and wells was one of the common allegations by all of them. The reply by the proponent in this regard is not satisfactory.
6. The main occupation of the local villagers, as shown in the report, are agriculture, animal husbandry like goat rearing, cattle farming for milk etc, is not seen substantiated.
7. There is a built structure at 14m distance along the eastern boundary. This is not mentioned in the report.
8. The mitigation measures suggested for the socio-economic environment seems inappropriate.

The Committee also observed that the following additional documents are required for further consideration of the proposal:

- a. Drainage map with garland canal connecting to silt trap, and connecting to natural drainage
- b. CER to be revised as per norms and based on stakeholder consultation and incorporated in the EMP.
- c. Site photographs with geocoordinates
- d. Recent legible survey map showing the distance to all built structures.

Based on discussions, **the Committee decided to direct the proponent to modify the EIA report taking into consideration the observations stated above and invite the proponent for presentation considering all the shortcomings listed above.**

25. SIA/KL/MIN/59482/2020 , 1871/EC1/2021/SEIAA

Environmental Clearance for the Building Stone Quarry Project of M/s Metarock Private Limited in Block No. 41, Sy. Nos. 340/8, 340/19, 340/22, 341/2-1, 341/2-2, 341/2-3, 341/3, 341/8, 341/8-1, 356/2, 356/4, 356/5, 356/5-1, 356/5-2pt, 356/5-3, 356/5- 5, 356/6pt, 356/10, 356/10-1pt, 356/10-1-1pt, 357/7-1pt, 357/26pt, 341/1pt, 356/3pt, Aruvikkara Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala (Referred from 128th SEIAA)

Decision: The Committee noted the decision of the 128th SEIAA meeting and **decided to hear the proponent and complainants in the next meeting.**

26. SIA/KL/MIS/288438/2022 , 2104/EC6/2022/SEIAA

Environmental Clearance for the expansion of existing Building and Construction project to be jointly developed by M/S Franciscan Sisters of St. Clare Charitable Trust Arattupuzha And M/S Franciscan Sisters Of St. Clare Sanyaasa Samootham Pallissery at Re. Sy. Nos. 67/6, 67/3, 67/5, 68/2-1, 68/2-2, 68/3, 68/2-3, 68/4 in Arattupuzha Village, Thrissur Taluk, Thrissur. (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and specifically noted that CER proposal by the proponent is generally not acceptable. But in this specific case, the care home is known to be functioning as a 'No Bill' hospital and is extending free services to critical care patients and to those needing palliative care as seen during the field visit. Accordingly, as a very special case, the Committee decided to accept the CER proposal for medical services to poor people.

The proposal consists of 5620 m² of the existing building, 3,319.01 m² of building under construction, and a proposed built-up area of 47,425.47 m². The total built-up area after expansion is 56,365.22 m². The Committee discussed the field inspection report, conducted on 29.03.2023. Based on discussions, **the Committee decided to recommend EC for a period of 7 years** subject to the following Specific Conditions in addition to the General Conditions:

1. The site with elevation varying from 44-122m above MSL is located on the middle & lower side slope of a hill with highest elevation of about 150 m above MSL. The overland flow will be high and intense during high rainfall. There should be a garland drain surrounding the proposed plot to carry the overland flow to the natural drain. The garland drain should be provided with intermittent silt traps to regulate the flow, siltation of sediments, groundwater recharge etc. The silt traps should be minimal and shallow at the northern portion as the soil thickness there is shallow.
2. The recharge pits proposed should only be in the southern part of the site

3. The soak pit planned for discharging excess treated wastewater should not be near to any water source of the nearby houses
4. The PP should ensure that the Floor Area Ratio should strictly adhere to the KMBR norms
5. The garland drains should be desilted and maintained periodically and it should be discharged to a natural drain
6. Green belt should be developed all around the plot by planting and nurturing multi-layer plants of indigenous species
7. Proposed dug wells should be monitored for water level fluctuation during pre-monsoon, monsoon, and post-monsoon seasons and also for development of caving, if any by a geologist. If caving is observed, effective mitigation measures should be adopted without delay
8. The list and details of patients who are given the medical facility as part of the CER should be provided in the HYCR.
9. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local groundwater, and for avoiding discharge of treated water into the nearby public drain.
10. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
11. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
12. Climate-responsive design as per Green Building Guidelines in practice should be adopted
13. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
14. Exposed roof area and covered parking should be covered with material having high solar reflective index
15. Building design should cater to the differently-abled citizens
16. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow
17. Water-efficient plumbing features should be adopted
18. Design of the building should comply with Energy Conservation Building Code as applicable and energy conservation measures as proposed in the application should be adopted in total
19. Buildings to be constructed should be barricaded with GI sheets of 6 m. (20 feet) height to avoid disturbance to other buildings nearby.
20. Construction work should be carried out during day time only.

21. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed and it should be fully covered and protected during transportation of materials.
22. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
23. Occupational health safety measures for the workers should be taken during the construction.
24. All vehicles during the construction phase should carry a PUC certificate.
25. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
26. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.

PART 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/INFRA2/430386/2023, 2309/EC6/2023/SEIAA

Application for Environmental Clearance for the Proposed Commercial Complex Project to be developed by Sri. Mohamed Fazim. P, M/s Nilambur Lands LLP at Survey Nos.145 & 149 in Mampad Village, Nilambur Taluk, Malappuram District (Fresh application)

Decision: The Committee examined the application submitted by Sri. Mohamed Fazim. P, M/s Nilambur Lands LLP. As per the application, the proposed project consists of Commercial retail shops, Multiplex (1,500 seats), Food court (1200 seats), Restaurant (300 seats) along with supporting infrastructure facilities. The total plot area of the project is 2.5204 ha. and built-up area is 80,950 sq.m. The Committee noted that the CER is not found uploaded. **The Committee decided to invite the proponent for a presentation.**

2. SIA/KL/INFRA2/431555/2023, 2302/EC4/2023/SEIAA

Environmental Clearance for the proposed Residential project to be developed by M/s Tektoninfra India Pvt. Ltd at Re-Survey Nos. 121/7, 121/5, 121/6, 126/2, Pantheerankavu Village, Olavanna Panchayat, Taluk Kozhikode, Kozhikode District, Kerala. (Fresh Application)

Decision: The Committee examined the application submitted by M/s Tektoninfra India Pvt. Ltd. on 22.06.23. As per the application the total plot area of 1.35 ha. and total built-up area of 64,816.14 sq.m. The Committee found that the CER is not submitted. **The Committee decided to invite the proponent for presentation.**

3. SIA/KL/INFRA2/434354/2023 , 2308/EC1/2023/SEIAA

Common Biomedical Waste Treatment Facility by IMAGE-IMA at Re. Sy No

340/1/19, 340/1/20, Block No 26, KINFRA Park Enadimangalam Village, Adoor Taluk, Pathanamthitta District, Kerala (Fresh proposal)

Decision: The Committee examined the application submitted by Indian Medical Association and that there is contradiction in the application and EIA document. Technology revision is also required. **The Committee decided to invite the proponent for presentation.**

4. SIA/KL/INFRA2/435776/2023, 2314/EC1/2023/SEIAA

Environmental Clearance for the proposed Residential Building Construction Project for Fisherman to be developed by Directorate of Fisheries, Govt. of Kerala at Survey No. 2610 pt, 2778/pt in Muttathara Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala.(Fresh proposal)

Decision: The Committee examined the application submitted by the Directorate of Fisheries Department on 07.07.23 for the construction of Residential buildings for the fisherman as part of the rehabilitation of fisherman who suffers due to coastal erosion. As per the application the total plot area is 3.2374 ha. (32,374.90 sqm) and total built up area is 23,733.86 sqm. The project cost is Rs. 64.02 Crores. **The Committee decided to invite the proponent for presentation.**

5. SIA/KL/MIN/425079/2023 , 2306/EC4/2023/SEIAA

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry Project of Sri. Unnikrishnan.P, in Block No.91, Re-Survey No: 46/109 of Kalliyad Village, Iritty Taluk, Kannur District, Kerala for an extent of 0.3885 Ha (Fresh Application)

Decision: The Committee examined the application submitted by Sri. Unnikrishnan.P on 23.06.23. As per the application, the mineable reserve is 33,993 MT and the mine life is 3 years. The project cost is Rs. 4.40 lakhs. **The Committee decided to invite the proponent for presentation.**

6. SIA/KL/MIN/425701/2023 , 2313/EC2/2023/SEIAA

Granite Building Stone over an extent of 1.2250 Hectares, located in Block No.-04 Re-Survey Nos. 162/1pt & 162/2pt, at Pattazhy Village of Pathanapuram Taluk, Kollam District, Kerala of Honey Vasanth (Fresh Application)

Decision: The Committee examined the application submitted by Sri Honey Vasanth on 10.07.23. As per the application, the mineable reserve is 2,70,567.5 MT and mine life is 8 years. The project cost is 1,47,50,000/-. The highest elevation of the lease area is 138m above MSL and the lowest elevation is 84m above MSL. As per the cluster certificate, there is a working quarry within 500m radius but the area is not mentioned. **The Committee decided to invite the proponent for presentation.**

7. SIA/KL/MIN/428211/2023 , 2298/EC6/2023/SEIAA

Application for Environmental Clearance for the Laterite Building Stone Quarry Project of Sri.Muhammed Naseer Shah T.K at Sy.No.364/2 in Naduvattom Village, Tirur Taluk, Malappuram (Fresh proposal)

Decision: The Committee examined the application submitted by Sri.Muhammed Naseer Shah T.K. As per the application, the mineable reserve is 10195.5 MT and mine life is 1 year. The project cost is 10 Lakhs. **The Committee decided to invite the proponent for presentation.**

8. SIA/KL/MIN/429680/2023 , 2287/EC6/2023/SEIAA

Application for Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Noushad C K at Sy.No.63/3-1-1, 63/3-2-1, 63/3-3-1, 64/4 in Muthuvalloor Village, Kondotty Taluk,. Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri. Noushad C K on 14.06.23. As per the application, the mineable reserve is 18,221 MT and the mine life is 2 years. The project cost is Rs. 4,92,810. **The Committee decided to invite the proponent for presentation.**

9. SIA/KL/MIN/430072/2023 , 2304/EC4/2023/SEIAA

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry Project of Sri.Ahammed Kunji ATP in Block No. 46, Re-Survey No: 14/848, 14/676 of Pariyaram Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.1944 Ha under B2 category. (Fresh Application)

Decision: The Committee examined the application submitted by Sri.Ahammed Kunji ATP. As per the application, the mineable reserve is 17,010 MT and mine life is 1 year. The project cost is Rs. 6.59 lakhs The Committee found that the Cluster Certificate is not uploaded. **The Committee decided to invite the proponent for presentation.**

10. SIA/KL/MIN/430898/2023 , 2301/EC4/2023/SEIAA

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Sharafudheen EP, in Block No. 76, Re-Survey No: 60/106 of Kuttiyeri Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.0971 Ha (Fresh Application)

Decision: The Committee examined the application submitted by Sri.Sharafudheen E P. As per the application, the mineable reserve is 17,010 MT and the mine life is 1 year. The project cost is 2.60 Lakh. **The Committee decided to invite the proponent for presentation.**

11. SIA/KL/MIN/431505/2023 , 2299/EC6/2023/SEIAA

Application for EC for the Granite Building Stone Quarry Project of Sri.Khaja Hussain K.K, M/s Khaja Granites at Sy.Nos.34/IA-78, 34/IA-79, 34/IA-80 in

Kariavattom Village, Perinthalmanna Taluk, Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri.Khaja Hussain K.K, Managing Partner, M/s Khaja Granites. As per the application, mineable reserve is 3,36,390MT and mine life is 5 years. The project cost is 1.20 crore. The Committee noted that the CER and Compensatory afforestation plan are not submitted. **The Committee decided to invite the proponent for presentation.**

12. SIA/KL/MIN/432522/2023 , 2290/EC1/2023/SEIAA

Ordinary clay mining project of Mr. P. S. Ajayakumar, over an extent of 0.1800 Ha, Re Survey No-456/1, Block No-12 in Kollengode2 Village of Chittur Taluk, Palakkad District, Kerala (Fresh proposal)

Decision: The Committee examined the application submitted by Sri. P. S. Ajayakumar. As per the application, the mineable reserve is 7200 MT and mine life is 2 years. The project cost is 15 Lakh. **The Committee decided to invite the proponent for presentation.**

13. SIA/KL/MIN/432642/2023 , 2300/EC6/2023/SEIAA

Application for Environmental Clearance for the Laterite Building Stone Quarry of Sri.Abdul Jaleel at Sy.No.7/2-3 in Mankada Village, Perinthalmanna Taluk, Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri. Abdul Jaleel. As per the application, the mineable reserve is 24063 MT and mine life is 1 year. **The Committee decided to invite the proponent for presentation.**

14. SIA/KL/MIN/432891/2023 , 2310/EC6/2023/SEIAA

Application for Environmental Clearance for the Laterite Building Stone Quarry of Sri.Haneefa Kottai at Sy.No.204/1-3, 1-12, 1-8, 1-4 in Muthuvallur Village, Kondotty Taluk, Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri.Haneefa Kottai. As per the application, the mineable reserve is 66,306 MT and mine life is 3 years. The project cost is 16.32 lakh. The cluster certificate is not found uploaded. **The Committee decided to invite the proponent for presentation.**

15. SIA/KL/MIN/433176/2023 , 2312/EC2/2023/SEIAA

The Laterite Building Stone Quarry project is situated at Re-Survey Nos.96/pt23 in Ambalathara Village, Hosdurg Taluk, Kasaragod District, Kerala (Fresh proposal)

Decision: The Committee examined the application submitted by Sri. K Raveendran. As per the application, the mineable reserve is 6560 MT and mine life is 1 year. The project cost is 15 Lakh. The Committee found that the consent given by the land owner to the proponent is

without the period of mining. **The Committee decided to invite the proponent for presentation.**

16. SIA/KL/MIN/433491/2023 , 2303/EC6/2023/SEIAA

Application for Environmental Clearance for the Laterite building stone quarry project of Mr. Faizal. K. P at Block No.33, Re.Sy.No.67/2 in Kuzhimman Village, Kondotty Taluk, Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri. Faizal. K. P. As per the application, the mineable reserve is 73920 MT and mine life is 3 years. The project cost is 30 lakh. The Committee noted that the lithosection and legible survey map are not submitted. **The Committee decided to invite the proponent for presentation.**

17. SIA/KL/MIN/433891/2023 , 2317/EC6/2023/SEIAA

Application for Environmental Clearance for the Granite Building Stone quarry project of KICHU K RAVI at Sy.No.53/2 in Venganellur Village, Thalappilly Taluk, Thrissur (Reappraisal of EC issued by DEIAA)

Decision: Environmental Clearance was issued by DEIAA, Thrissur as per Order No.B7/7683/2017/DEIAA/TSR dt.18.06.2018 for a period of five years. Based on the Judgment dated.24.11.2020 in WP(C) No.25848 of 2020, the Committee examined the proposal in detail and conducted field inspection on 24.04.2022 and 06.05.2022. The Committee in its 141st meeting decided to recommend revalidation of the EC for 22 years as per the life of mine certified by the District Geologist from the date of the original EC (18.06.2018) subject to the following specific conditions.

1. Buffer Zone with a width of 7.5m should be maintained all around the project area till the end of project life.
2. Garland Canal with silt traps, siltation pond and outflow channel should be provided considering the entire project area.
3. The cleaning and desiltation of silt traps, siltation pond and outflow channel should be done periodically.
4. Overflow water from siltation pond should be discharged to the nearby natural drain after adequate filtration.
5. The Bench Height and width should be rectified wherever required and corrective measures should be taken to maintain 45^o Slope.
6. Suitable location for the storage of topsoil and overburden has to be identified and the same has to be provided with retaining/protective walls.
7. Adequate energy conservation measures should be implemented including solar power installations.

The Committee also observed that the WP(C) 23471/21 filed by Sri. Joseph in the Hon'ble High Court of Kerala on 26-10-2021 is pending. The Authority in its 127th meeting observed that the EC for the present project was issued by DEIAA, Thrissur, and as per the O.M dated 28.04.2023, all the ECs issued by the DEIAAs between 15.01.2016 to 13.09.2018 shall be

reappraised by the concerned SEACs, and all fresh ECs in this regard shall be granted only by SEIAAs based on such appraisal. So, the proponent submitted an online application in Parivesh Portal on 20.06.23. The Committee examined the proposal in detail and **decided to invite the proponent for presentation.**

18. SIA/KL/MIN/434152/2023 , 2311/EC/2023/SEIAA

Application for Environmental Clearance for the Laterite building stone quarry project of Mr. Hussain Babu at Sy.Nos.249/2-4, 249/2-15 in Edayur Village, Tirur Taluk, Malappuram (Fresh application)

Decision: The Committee examined the application submitted by Sri. Hussain Babu. As per the application, the mineable reserve is 58056.25 MT and mine life is 3 years. The project cost is 30 lakh. The Committee noted that the survey map is not legible. **The Committee decided to invite the proponent for presentation.**

19. SIA/KL/MIN/434229/2023 , 2307/EC1/2023/SEIAA

Granite Building Stone Quarry of M/s. Empire Crushers Private Limited over an extent of 1.2784 Ha, in Block No.16, Re-Survey Nos.143/8-1, 143/9-1, 143/9- 2pt, 144/4pt, 144/14pt, 144/15pt in Anad Village, Nedumangadu Taluk, Thiruvananthapuram District of Kerala (Fresh Proposal)

Decision: The Committee examined the application submitted by Sri. Sunil Chandran, Managing Partner, M/s. Empire Crushers Private Limited. As per the application, the mineable reserve is 301210 MT and the life of mine is 5 Years. The project cost is Rs. 137 lakh. The Committee noted that the CER Plan is not as per the norms, Compensatory afforestation plan is not submitted and the EMP is not site-specific and without budgetary provision. **The Committee decided to invite the proponent for presentation.**

20. SIA/KL/MIN/434404/2023 , 2305/EC4/2023/SEIAA

Lakshmanan P P Environmental Clearance for the Proposed Laterite (Building Stone) Quarry Project of Sri.Lakshmanan P P, in Block No. 139 in Survey No: 209/2 of Chuzhali Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.0971 Ha. (Fresh Proposal)

Decision: The Committee examined the application submitted by Sri. Lakshmanan P P. As per the application, the mineable reserve is 7646MT and the mine life is 1 year. The project cost is 2.65 lakh. The Committee noted that the legible survey map and CER are not submitted. **The Committee decided to invite the proponent for presentation.**

21. SIA/KL/MIN/436541/2023 , 1889/EC6/2021/SEIAA

Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Asees Kadakkadan for an area of 0.9751 Ha at Block No:03, Re Survey No: 1169/119,1169/124 in Melmuri Village, Ernad Taluk, Malappuram (Reconsideration of Rejected application)

Decision: The Committee examined the application submitted by Sri. Asees Kadakkadan on 13.07.23. Since there is an error in the agenda provided, the consideration of the proposal is deferred for the next meeting.

CONSIDERATION OF TOR PROPOSALS

1. SIA/KL/MIN/436470/2023 , 2316/EC6/2023/SEIAA

Application for Terms of Reference for the Granite Building Stone Quarry Project of Sri Muhammed Ali, situated at Block no. 37, Re-Sy. No. 9/1, 9/2, 9/3, 9/4, 9/4-2, 9/4-3, 9/5, 9/6, 10/1-1, 10/1-2, 10/1-3, 10/2-1, 10/3-1, of Oorakam Village, Thirurangadi Taluk, Malappuram District, Kerala belonging to Malappuram, Kerala for an area of 4.9876 ha. (Fresh application)

Decision: The Committee examined the proposal and noted that the site is located on the Oorakam hills and there more than 6 quarries in the impact zone of the proposed site. Based on discussions, the Committee decided to recommend Standard ToR with specific study on (i) landslide prones of the area, (ii) cumulative impact of the abandoned and existing quarries on the land, water, biodiversity, air quality, noise level, road traffic, social and economic aspects within the impact zone and (iii) possibility and impact of water harvesting and usage in the post-mining pits of the quarries separately and collectively based on water balance of the impact zone.

PART 3

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/133614/2019, 1842/EC6/2020/SEIAA

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

Decision: The Committee examined the proposal and noted that the proposal was presented in the 142nd meeting. The Committee verified the documents submitted by the proponent and noted that the CER proposal is not conceived as per norms. It is observed that the proposed school for the implementation of one of the proposals in the CER plan is Govt. L P School, Wadakancherry but the consent is issued by another school. The proof of stakeholder consultation for the CER proposal for the PHC is not found submitted. An abandoned quarry (0.2050Ha) owned by the proponent is adjacent to the proposed area without closure. Hence the **Committee decided to direct the proponent to submit the following documents:**

1. Revised CER plan as per norms
2. Reasons for not completing the closure of the abandoned quarry and EMP incorporating the mitigation measures required for the abandoned quarry

27. SIA/KL/MIN/143579/2020 , 1831/EC1/2020/SEIAA

Environmental Clearance for the Proposed Granite (Building Stone) Quarry of Sri. Muhammed Abdul Basheer in Sy. No. 5/7, 6/1B1 of Pattithara Village, Pattambi Taluk of Palakkad District., Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. The total area of the proposal is 0.3171 ha with length and width varying from 69-53m and 68-52m providing mining area of dimension 45m x 41m approximaely. There is an abandoned quarry on the eastern side of the proposed area without benches, which will get corrected through this proposal. **Hence the proposal with mine life of 3 years is recommended for EC as a special case** subject to the following Specific Conditions in addition to the General Conditions:

1. The mining should be limited to a maximum depth of 25m above MSL.
2. Provision of retention wall of appropriate height for overburden dumping site.
3. Implementation of CER Plan during the first year itself and its operation and maintenance till the implementation of mine closure plan.
4. Maintenance of the haulage road with frequent sprinkling of water.
5. Development of green belt and compensatory afforestation should be initiated prior to the commencement of mining using indigenous species.
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. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
8. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
9. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
10. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
11. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
12. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
14. Adequate sanitation, waste management and restroom facilities should be provided to the workers.

15. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
16. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
17. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.

28. SIA/KL/MIN/185659/2020 , 1858/EC1/2020/SEIAA

Environmental Clearance for the Expansion of Granite Building stone quarry of Sri.Thomas Mathai, M/s Chengalathu Quarry Industries • in Sy.No: 575/1-3-6-2pt & 581/1-5-7pt at Konni Thazham Village, Konni Taluk, Pathanamthitta District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. The Committee observed that the proposed area is 0.9900 ha and the depth to the water table as per the field verification report is 7mbgl. A major portion of the proposed area is mostly in a medium hazard zone. As per the survey map submitted, there are no structures within 50 M. Considering the direction of the Hon'ble High Court in WP(C) No. 5723 of 2019 dated 23.10.2019, the Committee decided to recommend **EC for a period of 5 years subject to the following Specific Conditions in addition to the General Condition.**

1. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.
2. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain-free day occurs.
3. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
5. Drainage system incorporating garland canal, silt traps, siltation pond, and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream.

Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.

8. The downstream region of the natural stream also should be monitored. Additional samples (three) has to be collected along with the other samples and results should be submitted with HYCR
9. Avoid *Acacia mangium* from the list of trees for the afforestation program and incorporate more native trees. Geotagged photographs should be submitted along with the HYCR
10. A minimum of 500 plants shall be planted as part of the compensatory afforestation Program Survival rate of the trees planted shall be provided in the 7 th HYCR
11. Solar energy shall be utilized for office purposes and premises shall be lit up with solar lights.
12. An environment science expert should be included in the EMC.
13. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
14. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
15. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
16. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
17. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office
18. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

4. SIA/L/MIN/209584/2021, 1903/EC3/2021/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry for an extent of 3.6153 Hectares at Survey No. 231 part (Govt. Land) in Konnathady Village of Idukki Taluk, Idukki District, Kerala. (FIR Received)

Decision: The Committee examined the proposal and additional documents submitted, discussed the field inspection report conducted on 09.07.23 and the response of the proponent to the complaint against the project. The Committee noted that the proposed area is in ESA Village and the 129th meeting of the SEAC sought direction from the SEIAA. The 124th SEIAA meeting of the Authority decided to refer the proposal back to SEAC to appraise the project as per the conditions stipulated in the 123rd meeting of the SEIAA. Accordingly, the Proponent submitted a Certificate from the Tahsildar, Idukki with duly signed cadastral level map demarcating the ESA and non-ESA areas in the village along with certificate on the nature of land, nature of possession and a report on natural hazards like landslides, etc. The proponent also submitted NOC from the Govet valid upto 19.8.2023. Based on discussions of the field inspection report, the Committee observed the following:

- a) The site is covered by exposed hard rock and devoid of soil

- b) EMP is not site-specific and the budget is not adequate
- c) The given area for Compensatory afforestation is satisfactory
- d) Drainage plan is satisfactory
- e) Impact on biodiversity is minimal.
- f) Mining need to be limited to a maximum depth of 920m above MSL considering the water table condition

The Committee noted that the EMP submitted is not site specific and the budget provision is inadequate. The Committee also observed that the EMP should be more comprehensive considering the fact that the site falls in the western ghat region and factors such as ecological sensitivity of the region and their possible fragmentation, water management considering the heavy rain and consequent high runoff, high slope and possible disaster and accident situation, if any, etc. Therefore, **the Committee decided to direct the proponent to submit a comprehensive EMP as detailed above.**

5. SIA/KL/MIN/259967/2022 , 2025/EC1/2022/SEIAA

Environmental Clearance for Granite building stone quarry of Mr.Muralikumar K A, in ResyNo- 521/7,15in Erimayur -II Village, Alathur Taluk, Palakkad District, Kerala. (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and found them satisfactory. The Committee observed that the total mineable reserve is 77118 MT (15,500TPA) and mine life is 5 years. The presentation and field inspection has been completed. Based on discussions, the **Committee decided to recommend EC for mine life of 5 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 200m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. 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).
5. 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.
6. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR

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. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
10. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
11. Since the approach road is narrow, carriage vehicles with 3 ton capacity only should be permitted.
12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.

6. SIA/KL/MIN/273506/2022, 310/SEIAA/KL/1693/2014

Application for EC for Marath Enterprises and Crusher Pvt. Ltd in Survey No. : 197/2(p), 198/8(p), 198/9(p) 198/2(p), 198/10(p) & 205/2(p) Koppam Village, Pattambi Taluk, Palakkad District, Kerala Judgment dated 26.08.2021 in WP (C) No.14476/2021 & judgment dated 22.08.2022 in WP(C) No.25902 of 2022filed by M/s Marath Enterprises and crushers Pvt. Ltd) (FIR Received)

Decision: The Committee examined the proposal and discussed the field inspection report. conducted on 15/06/2023 and ascertained based on the certificate of the Village Officer that the site does not fall under cluster condition. The Committee observed that there is a Crusher unit owned by the Proponent at a distance of 30 m from the site. During the field level appraisal, the proponent submitted the hard copy of the cluster certificate, CER plan, Project cost, EMP estimate and Compensatory afforestation plan. The additional documents submitted, such as cluster certificate, CER plan, project cost are found satisfactory. The EMP estimate provided is less than the one submitted earlier. The compensatory afforestation plan does not contain the ownership details of the proposed site, geo-tagged site photographs and species proposed to be planted. None of the documents mentioned above are uploaded in the portal. **Thereofre, the Committee decided to direct the proponent to upload the CER Plan, Revised Project Cost, Revised EMP cost, modified compensatory afforestation plan and plan for maintaining a stipulated buffer distance of 50m between the project boundary and the crusher unit at the earliest to take a final dicision.** The Committee

noted the necessity of an early decision on the project due to the pending petition before the Hon. High Court.

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

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and **decided to direct the proponent to submit the following documents**

- (i) Proof of stakeholders consultation with regard to the the CER proposal
- (ii) Legible copy of the proof of application to SCNBWL

**8. SIA/KL/MIN/411130/2022, 2200/EC4/2023/SEIAA
Environmental Clearance for the Proposed Laterite Building Stone Quarry of Sri. Shuhail M V P for an extent of 0.1942 Ha at Block No. 40, Re-Survey No: 161/102 in Peringome Village, Payyanur Taluk, Kannur District, Kerala. (ADS Received)**

Decision: The Committee examined the documents submitted by the proponent and found them satisfactory. The Committee noted that the recoverable quantity is 16,992.5 MT and life of mine is one year. The project cost is Rs. 3.50 lakh. Based on discussions, the **Committee decided to recommend EC for the life of mine of one year** subject to the following Specific Conditions in addition to General Conditions:

1. The excavation activity associated 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 a useful purpose.
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 the breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/labourers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of the adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m should be maintained between the periphery of the project area and any civil structure.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.

12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm)

9. SIA/KL/MIN/415821/2023, 2222/EC1/2023/SEIAA

Laterite (Building Stone) Quarry of Sri. Bharathan for an extent of 0.9532 Ha in Survey Nos: 7/2-14, 7/2- 15, 7/2-8, 7/2-7 of Koppam Village, Pattambi Taluk, Palakkad District, Kerala (FIR Received)

Decision: The Committee discussed the field inspection report conducted on 15/06/2023 and found that the mineable reserve is 66724 MT (33362 TPA) and mine life is 2 years. The project cost is 22.50 Lakh. The depth to the water table is 6 m bgl. Based on the discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Revised project cost
2. Site specific EMP with appropriate cost.
3. Detailed CER proposal as envisaged as per the OM dated 30.09.2020 of MoEF & CC based on stakeholder consultation, proof of stakeholder consultation with adequate budgetary provision
4. Drainage plan.

10. SIA/KL/MIN/415955/2023, 2221/EC1/2023/SEIAA

Laterite (Building Stone) Quarry of Abdu Rasak in Block No 25, Re-Survey Nos: 7/2-10, 7/2-9, 7/2-8, 7/2-16, 7/2-17 of Koppam Village, Pattambi Taluk, Palakkad District, Kerala for an extent of 0.9400 Ha (FIR Received)

Decision: The Committee discussed the field inspection report conducted on 15-06-2023 and found that the mineable reserve is 74025 MT (37012.5TPA) and life mine is 2 years. The moderate hazard zone is at 20.40 Km. The depth to watertable is 6 m BGL. The project cost is 72000. Based on the discussion the **Committee decided to direct the proponent to submit the following additional documents:**

1. Revised project cost
2. Site-specific EMP with the appropriate cost.
3. Detailed CER proposal as envisaged as per the OM dated 30.09.2020 of MoEF & CC based on stakeholder consultation, proof of stakeholder consultation with adequate budgetary provision
4. Revised Drainage plan.

11. SIA/KL/MIN/72951/2022, 1590/EC1/2019/SEIAA

Granite Building Stone Quarry Project of Mr. Eldho Issac over an extent of 4.7023 Ha in Survey. No. 208/1 of Alanallur- III Village, Mannarkkad Taluk, Palakkad District (Evaluation report received)

Decision: The Committee examined the evaluation report submitted by the sub-committee of SEAC. However, the documents uploaded in the Parivesh system do not address the details of additional documents sought with clarity. Therefore, **the Committee decided to direct the proponent to upload the details of each of the Additional Documents sought with details and clarity.**

12. SIA/KL/MIN/81144/2019 , 1421/EC1/2019/SEIAA

Granite Building Stone Quarry of Ms. Malabar Blue Metals in Re Survey Nos. 570/5, 570/7, 570/11, 571/3, 571/4, 542/8 of Ambalappara-1 Village, Ottappalam Taluk, Palakkad District (FIR Received)

Decision: The Committee discussed the field inspection report and noted that the mineable reserve is 465811.25 MT (46581.125 MTA) and mine life is 10 years. The Project cost is Rs. 2.79 Cr. The depth to watertable is 5-10 m BGL. A building used for equipment storage is seen within 50m from the boundary of the site. The project was presented in the 138th SEAC meeting. The depth to water table in nearby wells vary from 42 to 50m above MSL. Based on discussions, the **Committee decided to recommend EC for a mine life of 10 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle 33 Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. A stipulated buffer of 50m should be maintained between any built structure and the project boundary.
5. Maximum depth of mining should be limited to a maximum of 50m above MSL considering the depth to water table.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
7. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
8. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR

9. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
10. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites
11. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
12. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
13. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.
14. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
15. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
16. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.

13. SIA/KL/INFRA2/418741/2023, 2236/EC3/2023/SEIAA

Environmental Clearance for the Building Project, Avigna Warehouse/ Logistics Park" at Parakkadavu, Ernakulam Re-Survey No.: 219/1, 219/2-4, 219/2-6, 219/2-5 & 219/2- 3,219/2-4-2, 219/2-5-2, 219/2-6-2, 230/11, 230/1, 219/1-3, 220/1, 220/1-2, 219/2-2, 219/2, 230/7, 220/2 at Parakkadavu Village, Aluva Tehsil, Ernakulam. (FIR Received)

Decision: The Committee discussed the field inspection report conducted on 15-07-2023 and found that the total built-up area is 51534.58m². Hence **Committee decided to direct the proponent** to submit the following additional documents:

- a. Revised CER Plan after undertaking a need assessment in consultation with local stakeholders.
- b. Revised Compensatory afforestation plan incorporating the necessary details such as year-wise plan, geo-tagged photographs of the area, and the geo-coordinates.
- c. Revised EMP alongwith adequate cost.
- d. An affidavit stating that the small piece of land categorized as "nilam" will be kept in its present form.

14. SIA/L/INFRA2/406920/2022 , 2143/EC1/2022/SEIAA

Environmental Clearance for the Proposed Expansion of Commercial Complex Project to be developed by M/s Rajakumari Shopping Mall LLP in Re-Survey Nos. 1617/1-5, 1631/1-5, 1608/2, 1608/3, 1617/1-6, 1602/6-4, 1609/3-1-4, 1613/2-4, 1609/1-5, 1609/3-4, 1602/4-2-3, 1608/1-4, 1602/1-3, 1608/1-1, 1611/2-A-1-1, 1610/2-

4, 1610/2-5, 1610/1-4, 1610/3-6, 1610/3-5, 1610/3-4, 1609/1-1-2, 1609/1-4, 1608/1-3, 1609/1-1, 1610/4-5, 1601/1-1, 1601/2-1-A, 1611/2-A-1-1-2, 1601/2-4, 1611/2-A-1-1-3, 1601/2-1-1, Attingal Village, Attingal Municipality, Chirayinkeezhu Taluk, Thiruvananthapuram District, Kerala. (From 146th SEAC)

Decision: The Committee verified the documents submitted by the proponent and examined them in detail. The total built-up area is 24,800.34 sq.m (Existing built-up area of 12,994.64 sqm and proposed built-up area of 11,805.70m²). The project cost is Rs. 61.94 Crores. The presentation was done in 146th meeting and field inspection report, conducted on 02.04.2023. Based on discussions, **the Committee decided to recommend EC for a period of 7 years** subject to the following Specific Conditions in addition to the General Conditions:

1. Treated water from STP should be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water into the nearby public drain.
2. Local topography of the land profile should be maintained as such by avoiding deep cutting /filling.
3. The Project Proponent should make provision for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).
4. Climate-responsive design as per Green Building Guidelines in practice should be adopted
5. Vegetation should be adopted appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
6. Exposed roof area and covered parking should be covered with material having high solar reflective index
7. Building design should cater to the differently-abled citizens
8. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow
9. Water efficient plumbing features should be adopted
10. Design of the building should be in compliance to Energy Building Code as applicable
11. Energy conservation measures as proposed in the application should be adopted in total
12. Buildings to be constructed should be barricaded with GI sheets of 6 m. (20 feet) height so as to avoid disturbance to other buildings nearby.
13. Construction work should be carried out during day time only.
14. All vehicles, including the ones carrying construction material of any kind, should be cleaned and wheels washed.
15. All vehicles carrying construction materials should be fully covered and protected.

16. All construction material of any kind should not be dumped on public roads or pavements or near the existing facilities outside the project site.
17. Grinding & cutting of building materials should not be done in open areas. Water jets should be used in grinding and stone cutting.
18. Occupational health safety measures for the workers should be taken during the construction.
19. All vehicles during the construction phase should carry PUC certificate.
20. D.G. set should be provided with adequate stack height and regular maintenance should be carried out before and after the construction phase and would be provided with an acoustic enclosure.
21. Green belt should be developed along the periphery of the site with indigenous species.
22. The green building criteria notified in the GO (Ms) No. 39/2022/LSGD dated 25.2.2022 should be adopted.

15. SIA/KL/MIN/407136/2022, 2156/EC4/2022/SEIAA

Environmental Clearance for the proposed Granite (Building Stone) Quarry in Block No. 66, Re Survey Nos. 292/1194, 292/6358, 292/2642, 292/6357, 292/5700, 292/4163, 292/3209, 292/3455, 292/1619, 292/159, 292/3513, 292/1612, 292/747 of New Naduvil Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 2.0110 Ha. (Correction of 146th SEAC Minutes)

Decision: As invited Proponent Sri. Vignesh S and RQP, Sri. V K Roy were present. The RQP made the presentation. The Committee heard the presentation and verified the documents submitted by the proponent. The Committee noted that the mineable reserve is 8,51,275 MT and the production proposed is 1,00,000 MT per annum for the first five years and 50,000 MT per annum from sixth year to twelfth year. The estimated project cost is Rs. 2 crore. The expected life of mine is 12 years. The highest elevation is 405m and lowest elevation is 335m above MSL. As per the presentation, there are no houses within 200m radius of the project boundary. The entire area surrounding the proposed site is prone to landslides as per the hazard zonation map. The project under consideration is proposed in the narrow portion of land outside the moderate hazard zone with a portion of the proposed site falling in moderate hazard zone. Many of the essential documents required for appraisal are either not uploaded or are not legible. The mine plan is not approved by the Mining & Geology Department, but obtained deemed approval as per deeming provision vide Rule 58(5) and 67(4) of the KMMC Rule, 2015. Many portion of the Mine Plan uploaded is not legible. The certified survey map by the Village Officer showing distance to the built structures are not legible. The Non Assaignment Certificate or NOC from the Government is not found uploaded. The proponent has not provided details of current landuse. The Biodiversity Assessment Report is not legible. The CER is submitted without the proof of stakeholder consultation. The details of compensatory afforestation is not provided. The clarification sought on the temple near the site is also not provided. The cost earmarked for the EMP is not found adequate and there is no provision made for meeting the recurring cost of EMP. In the circumstance, the Committee is unable to apprise the project. Therefore, the

Committee decided to direct the proponent to submit the following documents. upload the following details. without . Some of the documents uploaded are not legible. disaster A small portion of the proposed area is in Medium Hazard Zone. The **Committee decided to direct the Proponent to submit the following additional documents:**

1. Legible Mine plan that obtained deemed approval
2. Certified and legible survey map by the Village Officer showing distance to the built structures
3. Non Assaignment Certificate, if the land is private or NOC, if the land is Government owned
4. Current landuse details of the site
5. Legible Biodiversity Assessment Report
6. Revised CER plan with details required for implementation and proof of stakeholder consultation
7. Compensatory afforestation plan in an alternate site with geo-tagged photographs of the site, ownership details and species proposed to be planted as the site suggested by the proponent is unsuitable
8. Clarification on the temple located within the site as per satellite imagery
9. Revised EMP with adequate cost for capital and recurring expenditure
10. Depth to water table in the nearest dugwells to the site along with elevation of the site w.r.t MSL along with geo-tagged photograph of the well

PART 4

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/INFRA2/404656/2022 , 2140/EC1/2022/SEIAA

Environmental Clearance for the Proposed City Side Developmental Project at Pettah Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala to be developed by M/s Adani Airport Holdings Limited. (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent. The CER plan is to spend INR 71 lacs towards waste management by installation of Rendering plant at Sewage Treatment Plant, Muttathara area in consultation with other stakeholders for addressing the Solid Waste management issues, for the areas Ponnara, Valiyathura & Vallakadavu wards. The Committee agreed to the requirement of such projects but observed that the plan is incomplete as the technical details of the proposal, its implementation plan and requirement of capital and recurring cost are not provided in detail. Also no stakeholder consultation seems to have been conducted. The site proposed is Muttathara Sewage Treatment Plant, but NOC of the KWA and Thiruvananthapuram Corporation is not provided. It is also desirable to examine the suitability of the location for installation of such a plant considering the fact that the proposed site falls in the flight landing corridor of the airport. Hence **Committee decided to direct the proponent to submit detailed CER plan as per norms and considering the above observations.**

2. SIA/KL/MIN/275159/2022 , 2073/EC1/2022/SEIAA

Environment Clearance for mining permit of "M/s K L R Granites" over an extent of 3.8717 Ha at ReSy Block No.:20, Re-Sy No.: 47/1-9, Malayalappuzha Village, Konni Taluk, Pathanamthitta District, Kerala (**from 146th SEAC**)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent. The mineable reserve is 2034517.50 MT and annual production is 3,49,920.23 TPA. The mine life is 7 years. The depth to water table is 10m and the source of water is an open well. The highest and lowest elevation is 115m and 145m, respectively. The presentation and field inspection has been completed. Based on discussions, the **Committee decided to recommend EC for mine life of 7 years** subject to the following Specific Conditions in addition to the General Conditions:

1. The banks of the seasonal stream should be protected to ensure adequate drainage of the overland flow. Two or three silt traps should be provided in the drain carrying the overland flow to the seasonal stream.
2. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half-yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Geotagged Photographs of the progress of compensatory afforestation should be submitted along with HYCR
8. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
9. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. Adequate sanitation, waste management, and restroom facilities should be provided to the workers.

13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from the solar power. It should be used for office purposes and premises lighting
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.
16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground Water Authority.

The meeting came to an end at 5.30 pm with a vote of thanks to the Chair

It is decided to convene the 148th meeting of the SEAC on 8th & 9th of August 2023.

**Sd/-
Suneel Pamidi, IFS
Secretary, SEAC**

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

Sl.No.	Name	21.07.2023	22.07.2023
1.	Shri. Sheik Hyder Hussain	X	√
2.	Dr.A.Bijukumar.	X	X
3.	Dr.A.N.Manoharan	√	√
4.	Shri. M.Dileepkumar	√	√
5.	Smt. Beena Govindan	X	X
6.	Dr.C.C.Harilal	X	√
7.	Dr.K.VasudevanPillai	√	√
8.	Dr.Mahesh Mohan	√	√
9.	Dr.K.N.Krishna kumar	√	√
10.	V.Gopinathan	√	√
11.	Dr.A.V.Raghu	√	√
12.	Dr.N.Ajithkumar	√	X
13.	Shri.Suneel Pamidi, IFS (Secretary)	√	√
14.	Dr.R.Ajayakumar Varma (Chairman)	√	√