

**MINUTES OF THE 139TH MEETING OF THE SEAC, KERALA HELD ONLINE
FROM 3RD TO 4TH MARCH 2023**

The 139th meeting of the SEAC Kerala was held from 3rd to 4th March 2023. The meeting started at 10.00 AM on 3rd March 2023. Dr. R. Ajayakumar Varma, Chairman, SEAC, Kerala chaired the meeting. The Committee discussed the agenda items in detail and took the following decisions;

The Committee has noted and discussed the decision taken by the SEIAA Kerala regarding the mining projects falling in the ESA villages and those within 10 km from the boundary of the Protected Areas (National Parks and Sanctuaries) and the applicability of Wild Life Clearance from the NBWL. The Committee also decided to consider the deferred proposals that fall in the non-ESA area of ESA villages in the coming meetings.

PART 1

CONSIDERATION/ RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/130005/2019, 1568/EC2/2019/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry Project of Mr. Shafir P in Survey No. 374/782, 374/509, 374/510 of Valad Village, Manathavadi Taluk, Wayanad, and Kerala

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The minable reserve as per the approved mining plan is 4,16,688 MT, with annual production rate of 83,337.6 TPA for the life of mine of 5 years. The Committee found that there is a farm shed without a building number at a distance of 27 m and an abandoned quarry pit in the central portion of the proposed project area. The site is at the head portion of a slope where rainwater from all three flanks collects in the old quarry pit and flows out as a natural channel. Based on discussion, the Committee decided to recommend EC for the mine life of 5 years with the following specific conditions, in addition to general conditions.

1. A buffer distance of 50m from the farm shed should be maintained. The quantity of mining should be limited accordingly.

2. 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 a maximum charge per delay and included in the Half Yearly Compliance Report.
3. Compensatory afforestation should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
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. Outflow channel from the abandoned pit should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.
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 overburden dumping site should be protected with gabion walls to prevent erosion.
9. The haulage road for about 100m should be developed prior to the commencement of mining activities. It should be maintained well and dust-free with permanent sprinkling arrangement.
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 rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office.
13. 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.
14. Buffer zones should be demarcated and planted with local plants, climbers, and herbs as mentioned in the biodiversity assessment report.

15. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.

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

Granite Building stone quarry of “Mr. Babu N.P, Managing Partner, M/s. Grand Rock Products at Sy.No: 157/3 in Vadakkanchery Village, Thalappilly Taluk, Thrissur, Kerala State

Decision: The Committee examined the proposal, verified the documents, and found that the mineable reserve is 2,50,658 MT for the mine life of 3 years. The project cost is 80 lakhs and the highest elevation of the Permit area is 102 m MSL and the lowest is 68 m MSL. The nearest house is located at 103 m, S from the proposed mine boundary. **The committee verified the documents submitted by the proponent as directed by the 135th SEAC and found the following:**

1. The OB dump site proposed is between BP 1 & BP2 which is comparatively an elevated portion.
2. Area proposed for compensatory afforestation is a vegetated area. So, an alternate site should be provided with geo-tagged photographs of the area.
3. Proof of consultation with the beneficiary for CER proposal is not provided.

The Committee decided to invite the proponent for presentation. The project proponent should address the above discrepancies during the presentation.

3. SIA/KL/MIN/140563/2020 , 1818/EC3/2020/SEIAA

Environmental Clearance for the building stone quarry owned by Mr. Regi M Kuriakose, Managing Partner, M/s Concrete Aggregates Industries proposed at Re Survey No. 419/2, 419/3, 419/6-4, 419/6, 419/6-2, 419/6-3, 420/1-2, 420/1- 3-2, 420/3, 420/4, 421/3 of Pattimattom Village, Kunnathunadu Taluk, Ernakulam District, Kerala for an area of 2.7340 Ha.

Decision: The Committee examined the proposal, verified the documents, and found that the proposed mineable reserve is 361080MT and the mine life is 6 years. The project cost is 552 lakh and depth to water table is 15 m MSL. As per old survey map, the nearest house is situated at 53.6m, however the same is not present now. As per the Cluster Certificate there is another quarry having an area of 0.3756 Ha in Sy. No. 421/2 owned by the same company.

The validity of the LoI expired, since the same was issued for one year from 27.08.2019. On verification, it is observed that the Project proponent submitted copies of leases up to 11.05.2018 for an area of 1.2121 ha in Sy nos. 420/1-2 and 420/3, 420/4 and another lease with validity up to 14.6.2022 for an area of 0.3756 ha in Sy no. 421/2 pt. The proponent claims that as per Rule 66 of KMMCR, the quarrying lease which is in force on 7.02.2015 has to submit a mining plan to the remaining part of the life of the mine. Accordingly, a mining plan was approved by the geologist, and mining was conducted as per the terms and conditions of the mining plan. The mine closure plan was also submitted. Hence these areas don't have an EC and hence CCR from IRO, MoEFCC, Bangalore is not submitted. Besides, the committee also noted that as per the S.O. 2731(E) dated 9th September, 2013 "Prior environmental clearance is required at the stage of renewal of mine lease for which an application shall be made up two years prior to the date due for renewal. Further, a period of two years with effect from the 4th April, 2011 is provided for obtaining environmental clearance for all those mine leases, which were operating as on the 4th April, 2011 with requisite valid environmental clearance and which have fallen due for renewal on or after 4th November, 2011". **On the basis of the notification, it is decided to obtain legal opinion from the SEIAA regarding the violation of the provisions of EIA Notification 2006 and subsequent amendments. The Committee also decided to entrust Dr. Mahesh Mohan and Dr. KN Krishnakumar to verify the documents and to ascertain whether the mining was done in the area in which the lease was obtained**

4. SIA/KL/MIN/140565/2020 , 1744/EC4/2020/SEIAA

Environmental Clearance for the Proposed Granite (Building Stone) Quarry of M/s Sainaba Granites, in Re - Sy. No. 159/447 (159/1A1) of Thinur Village, Vadakara Taluk of Kozhikode District., Kerala for an extent of 0.9996 Ha under B2 category.

Decision: The Committee examined the proposal, verified the documents and the study report on landslide susceptibility investigations and the comprehensive drainage plan of the proposed quarry site and it is summarized as follows:

- The proposed site has exposed rock in the majority of the area. According to field surveys, there is enough hard metamorphic – charnockite rock for quarrying.
- The rock body in the site has massive charnockite in nature and lacks foliations. Three sets of mutually perpendicular joints are noticed but not common in the entire area.

Therefore structurally, the rocks in the site do not possess any prominent joints and faults planes, reducing the possibility of rock falls or slides and complementing better quarrying. Major weak zones or active slip planes are also not detected in the area.

- According to the landslide susceptibility zonation map, the proposed site is located in the low to moderate susceptibility zone but the average slope of the site is within reasonable limits, allowing quarrying to proceed parallel to contours beginning at the higher elevation locations.
- The area is devoid of any evidence of piping or underground tunnels, and the proposed quarry site contains no layer of clays or laterite-containing clays. As a result, the issue of soil piping or any landslides can be disregarded.
- The percentage of clay is higher in some locations, but the lack of overburden thickness in the area eliminates the possibility of debris flows and improves quarrying conditions.
- According to the geotechnical examination of sediment samples from the research area, the region's liquid and plastic limits are moderate; the plasticity chart reveals that most soil samples fall within the medium plastic limit, indicating less chance for the earth components to slip.
- The fine-grained soil has an infiltration rate that ranges from moderate to rapid, according to the permeability coefficient of the soil, which indicates the soil has medium to high permeability levels that reduce the risk of landslide incidents.
- During the development of the quarry site, the possibility for erosion or landslides from the topmost portion of the quarry may not happen as it is already planned so that the first benches start from the highest altitude.
- A comprehensive drainage plan for the proposed quarry site is formulated for the better management of the rainwater and groundwater seepages during quarry operations

The total Mineable reserve is 1,81,015 MT (36203 TPA).The Field Inspection was conducted on 05.06.2022. The project was presented before the 123rd meeting of SEAC. The proposed area is in moderate hazard zone. Based on discussions, the Committee decided to recommend EC for the life of mine of 5 years as mentioned in the application with the following specific conditions, in addition to general conditions:

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. The mining should start from the western part of the quarry and proceed to the east and reducing the slope of the terrain.
3. Prevent any water logging in the area since the clay content of the soil is slightly elevated.
4. Natural drainage should not be prevented while building haulage road. Wherever drains cross roads, proper culverts should be constructed to allow for the free flow of surface water.
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Outflow channel should be enlarged to contain the entire overland flow of the quarry and its surroundings.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. 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.
9. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report. Grow native plants and trees in the areas close to the quarry site. More Bamboo sp. must be planted in the buffer zone and surrounding areas to prevent soil erosion.
10. Compensatory afforestation should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
11. Because of the thinness of the soil column, use geotextiles on the slopes to prevent soil erosion.
12. Plans for proper terrain restoration should be implemented.
- 13.** Impact of vibration due to blasting on the nearest houses and built structures upto 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.

14. The overburden dumping site should be protected with gabion walls with weep holes.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
16. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.
17. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.
18. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office.
19. 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.
20. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.

5. SIA/KL/MIN/141622/2020 , 1916/EC2/SEIAA/2021

Granite Building Stone Quarry of Shri. K V Joy over an extent of 1.4062 Ha. (3.4747 Acres) in Re- Sy. Block No. 19, Re-Sy. Nos. 8/33, 8/34, Kalpetta Village, Vythiri Taluk, Wayanad District, Kerala

Decision: The Committee observed that the total mineable reserve is 53,9505 MT with a maximum production plan of 65295 TPA and Mine life is 10 years. The nearest house is at 157 m from the boundary of the site and depth to watertable is 15 m below the ground level. The field inspection was conducted on 22.10.22. The site office located at 25m was demolished on the day of visit. The presentation was done in the 136th meeting of SEAC. The committee verified the documents submitted by the proponent and found that an abandoned quarry pit is located 27m away at the southwest portion of the proposed project area and also observed the following:

1. The CER proposed to distribute mobile phones to LP School students can't be considered in the current scenario; so an alternate proposal needs to be submitted
2. The EMP should include recurring and non-recurring cost for the entire life of mine.
3. The project proponent offered to conduct a hydrological & hydrogeological characteristics study of the area which is not found provided.

Hence committee decided to direct the proponent to submit the same.

6. SIA/KL/MIN/142845/2020, 1409/EC2/2019/SEIAA

Granite Building Stone Quarry of Mr. V. V. Divakaran over an extent of 1.3990 Ha at Re Survey Nos. 355/2, 355/5 (Block No. 26) of Muthuthala Village, Pattambi Taluk, Palakkad, Kerala

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The total Mineable reserve is 2,79,190 MT (27,919 TPA) and mine life is 10 years. The depth to the water table is 12m bgl. The Peechi –Vazhani wildlife sanctuary situated at 26 Km. Distance to Moderate Hazard Zone 11.78 km and that to high hazard zone is 33.50 Km. The project was presented before the 136th meeting of SEAC. Based on discussions, the Committee decided to recommend EC for the life of mine of 10 years with the following specific conditions, in addition to general conditions:

1. Removal of Sandal trees from the site should be done after obtaining permission from the Forest department. Sandal should be planted in 20 cents within 1 acre proposed for compensatory afforestation. Necessary input to plant the sandal planting shall be obtained from reputed institutions.
2. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.
3. Impact of vibration due to blasting on the houses and built structures within 200m from the project boundary should be monitored in terms of peak particle velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.
4. Compensatory afforestation should be done from the 1st year itself and the 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 a natural drain should be provided prior to the commencement of mining.
6. Garland drain should be enlarged to contain the entire overland flow of the adjacent slope region of the quarry.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.

8. 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.
9. The overburden dumping site should be protected with gabion walls with weep holes.
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. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.
12. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office.
14. 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.
15. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.

7. SIA/KL/MIN/143147/2020, 1755/EC3/2020/SEIAA

Granite building stone quarry project of Sri. Jiji P Ulahannan at Sy No. 73/1B, 73/2B of Village Muvattupuzha, Muvattupuzha Taluk, Ernakulam, Kerala over an area of 0.7091 Ha

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The minable reserve is 1,12,377.5 MT, the life of mine is 3 years and the production plan is 37,459TPA. Distance to Moderate Hazard Zone 13.7 km and that to the high hazard zone is 17.66 Km. The nearest house is at 51.5 m from the boundary of the site and depth to water table is 10 m below the ground level. Based on discussions, the Committee decided to recommend EC for a mine life of 3 years with the following specific conditions, in addition to general conditions.

1. Impact of vibration due to blasting on the houses and 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.

2. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.
3. Compensatory afforestation should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
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. Garland drain should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.
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 overburden dumping site should be protected with gabion walls.
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm). The road shall be developed to facilitate better transportation.
10. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.
11. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office.
13. 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.
14. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.

8. SIA/KL/MIN/148066/2020, 1693/EC2/2020/SEIAA

Environmental Clearance for Granite Building Stone Quarry of Sri. Babu. P at Survey No. 535/1 in Thayannur Village, Vellarikkund Taluk, Kasaragod, Kerala

Decision: The Committee examined the proposal and field inspection report. The total mineable reserve is 1,00,058 MT (20,000 MTA) and the mine life is 5 years. Distance to Moderate Hazard Zone 1.3 km and that to the high hazard zone is 2.19 Km. The nearest house is at 114.6 m from the boundary of the proposed area. As per FIR two abandoned quarry pits are located in the project area and the road to the proposed area is narrow. The committee verified the documents submitted by the proponent and found them satisfactory. **Hence committee decided to invite the proponent for presentation.**

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

Environment Clearance for the proposed 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, Kerala

Decision: The Committee examined the proposal submitted by M/s. Kottiyoor Metals. As per the application, the total mineable reserve is 22,26,544.31 MT (2,85,017.81 MTA) and the mine life is 12 years. The depth to water table is reported as 12m bgl and the ultimate mine depth proposed is 75m above MSL. The committee verified the documents submitted by the proponent and found that a crusher and site office are situated within 50m. The committee also observed that the area is in medium hazard zone and the distance to high hazard zone is just 20m. The site falls in the upper middle portion of the very steep slope of a hill with high relative relief. A stream is flowing near the proposed area. Considering that there are other quarries nearby, there may arise a cluster situation. Based on the evaluation of the application and other documents submitted, the proponent is directed to submit following additional documents:

1. Recent cluster certificate from Mining and Geology department.
2. Detailed Biodiversity report.
3. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms.

4. Depth to water table in the nearest dug well with geotagged photographs of the well and distance.
5. Clarification on mine void details.
6. Clarification on whether the boundary of the quarry overlaps with that of the adjacent quarry.

10. SIA/KL/MIN/165260/2020, 1977/EC6/2022/SEIAA

Application for Environmental Clearance for the Granite Building Stone Quarry 134 41 of Abdul Nazer. P in Survey No.137/10-13, 137/10-15, 137/10-14, 137/10-11 in Valambur Village, Perinthalmanna Taluk, Malappuram.

Decision: The Committee examined the proposal submitted by Abdul Nazar P and field inspection report. The total mineable reserve is 5,41,302.60 MT (54,130.26 TPA) and life of mine is 10 years. The medium hazard zone is located at 660 m the high hazard zone at 21.55 km. The Committee in its 136th meeting observed that the mined out area is different from the area for which EC was issued and there seems to be illegal mining and hence the Proponent seems to have done a violation and hence the Committee decided to recommend to SEIAA to seek a report from the Mining & Geology Department regarding (i) Whether the Proponent resorted to illegal mining by making use of the EC No. 756/SEIAA/KL/331/2015 with validity up to 29/05/2021 and extended validity up to 29/05/2022 and (ii) whether the new mining plan can be used for the appraisal of the current project proposal. The Committee also sought clarification from the PP. The Committee verified the documents submitted by the project proponent and found them not satisfactory, especially the explanation for noncompliance with EC condition of EC No. 756/SEIAA/KL/331/2015 and observed that it is a case of violation. The Committee also observed that the proposal was considered in the 124th SEIAA meeting held on 27th and 28th February 2023 and decided to await the instructions from SEIAA.

11. SIA/KL/MIN/167340/2020, 1860/EC1/2020/SEIAA

Environmental Clearance for the building stone quarry Sri. Shibin William Varghese at Block No:32, Re. Survey No.175/4, 171/5, 6, 7, 172/1/1, of Koodal Village, Konni Taluk, Pathanamthitta, Kerala

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The Committee observed that the minable reserve is 1,40,150 MT, the

life of mine is 5 years and the production plan is 28,030 TPA.. The nearest house is at 72 m from the boundary of the site and depth to the water table is 13m below the ground level. Ultimate mine depth is 120m above MSL. The committee verified the documents submitted by the proponent and found that some of the documents submitted are not satisfactory. Therefore, the Committee decided to direct the proponent to submit the following additional documents:

1. Non- assignment Certificate from the V O.
2. Recent Cluster Certificate from M& G Department.
3. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
4. The area proposed for compensatory afforestation is fully vegetated. So, an alternate site indicating coordinates of the boundary of the site along with geo-tagged photographs and ownership details and consent
5. Source of water for the proposed project with details.
6. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms

12. SIA/KL/MIN/218355/2021, 2094/EC4/2022/SEIAA

Building Stone Quarry project of Sri. K. Gangadharan for an area of 1.3710 hectares at Re Survey Nos. 151/1, 151/4, 1/1 of Puthur Village, Thalassery Taluk, Kannur, Kerala

Decision: The Committee examined the proposal and verified the documents submitted by the proponent as per the decision in the 135th SEAC meeting and found them satisfactory. The total mineable reserve is 3,25,443 MT, production rate is 40,484 TPA and the mine life is 11 years. **The committee decided to entrust Sri. V Gopinathan and Dr. A N Manoharan for field inspection and report.**

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

Environmental Clearance for Granite Building Stone Quarry of Sri. KV Radhakrishnan over an extent of 0.5706 Ha at ResyNo-471/1(P) and 471/4(P) in Kuzhalmannam -1 Village, Alathur Taluk, Palakkad, Kerala.

Decision: The Committee examined the proposal and noted that as per the proposal, the total 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 committee verified the documents submitted by the proponent and found that more details are required to be submitted. The area proposed for compensatory afforestation is fully vegetated. Hence committee directed the proponent to submit the following additional documents:

1. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms.
2. Revised EMP with adequate budgetary provision.
3. An alternate site with geocoordinate of the boundary of the proposed site, geo-tagged photographs of the site and ownership details and consent.

14. SIA/KL/MIN/257315/2022, 1969/EC2/2022/SEIAA

Environmental Clearance for the Proposed Granite (Building Stone) Quarry in Re-Survey Nos: 375/1, 375/2, 375/3 of Puthoor Village & Re-Survey Nos: 381/1, 381/1-2, 381/1-3, 381/8, 381/10 of Kalayapuram Village, Kottarakkara Taluk, Kollam, Kerala

Decision: The Committee examined the proposal submitted by Sri. Ajimon S and noted that as per the proposal the project area is 3.1890 Ha, total mineable reserve is 11,00,345 MT (1,10,000 MTA) and the mine life is 10 years. The Project cost is 1.95 Cr. The highest and lowest elevation is 90m MSL and 70m MSL. The committee verified the documents submitted by the proponent and found that area proposed for compensatory afforestation is inadequate. **The committee decided to entrust Dr. A. Bijukumar & Dr. Ajayakumar Varma for field inspection and report.**

15. 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

Decision: The committee examined the proposal and discussed the field inspection report. It is noted that the total Mineable reserve is 11,46,889.50 MT (1,41,510 TPA average) and Mine life is 10 years. The depth to water table is reported as 20m bgl. There are no built structures within 200m. Almost 70% of the proposed area falls in the medium hazard zone. The Thattekkad Bird (ESZ) sanctuary is situated at 1.74 Kms from the project area which is not mentioned in Form 2 of Parivesh. The committee verified the documents. As per the cluster certificate dated 19.03.2022, there are 4 quarries within 500m radius in addition to the proposed with total area 5.2033Ha. Among them one quarry with area 0.4047Ha belongs to Sri. Reji Kuriakose which is not working as per cluster certificate. It is not clear whether this quarry is closed as per mine closure plan or not. **Therefore committee decided to seek clarification regarding the current cluster situation from the Mining & Geology Department.**

16. SIA/KL/MIN/273789/2022, 2117/EC2/2022/SEIAA

Laterite Building Stone Quarry of Sri. Saburaj E. G for an area of 0.0971 Ha in Survey No- 246/1PT401 Kinanur Village Vellarikkund Taluk Kasaragod

Decision: The Committee examined the proposal submitted by Sri Saburaj E G for the extraction of 4135 MT for mine life of 1 year. The Project cost is 15 Lakh. The committee verified the documents submitted by the proponent and found them satisfactory. **The VO vide his sketch dated 6/01/2023 certified that there are no buildings within 100 m distance and the Committee decided to invite the proponent for presentation.**

17. SIA/KL/MIN/275539/2022, 2068/EC2/2022/SEIAA

Environmental Clearance for the proposed Granite (Building Stone) Quarry in Block No. 37, Re-Survey Nos. 37/5-2, 37/5-3, 37/4-2, 37/4-1, 37/3-2-2, 37/3-1, 37/3-2, 37/13-1- 2, 35/2-2, 35/14, 35/15, 35/15-2, 36/3, 36/2-2, 35/13, 36/4 of Velinellur Village, Kottarakkara Taluk, Kollam, Kerala

Decision: The Committee examined the proposal submitted by Sr. Shibu S. The proposed project area is 2.1258 Ha, total mineable reserve is 4,04,689.245 MT (80,938MTA) and the mine life is 5 years. The Project cost is Rs. 1,55,00,000. The highest and lowest elevation is 90m MSL and 70m MSL. The committee verified the documents. As per cluster certificate dated 06.05.2022 the total area with in cluster is more than 5 Ha. The proponent produced a letter stating that the Beekay Granites having an area more than 3 Ha has withdrawn the lease application and upon telephonic enquiry with the District Geology Office, it's found correct.

Hence committee decided to entrust Dr. A. Bijukumar & Dr. Ajayakumar Varma for field inspection and report. The Committee also decided that the further processing of the file shall be done after the receipt of clarification from SEIAA, as it is under the consideration of the 124th meeting of the Authority.

18. SIA/KL/MIN/278677/2022, 2100/EC1/2022/SEIAA

Environment Clearance of the Proposed Granite Building Stone Quarry of Sri. Vinod S over an extent of 0.5946 Hectares at Block No.-25, Survey No. 314/1pt, 314/1-1pt, 314/1-2pt at Enadimangalam Village of Adoor Taluk, Pathanamthitta, Kerala

Decision: The Committee examined the proposal and found that the total mineable reserve is 1,51,350 MT for mine life of 4 years. The committee verified the documents submitted by the proponent as sought by SEAC in its 135th meeting. **The committee decided to invite the proponent for a presentation.**

19. SIA/KL/MIN/279495/2022, 2115/EC3/2022/SEIAA

Environment Clearance proposal of Granite Building Stone Quarry E.M.Madhu over an extent 0.9845 Ha. At Sy. No. 324/1, 318/7, 318/1 of Moonilavu Village, Meenachil Taluk, Kottayam, Kerala

Decision: The Committee examined the proposal submitted by Si E M Madhu and noted that as per the application the total mineable reserve is 147290 MT (29458MTA) and the mine life is 5 years. The committee verified the documents submitted by the proponent and found that when the project cost is revised there is a significant increase from the earlier submitted cost. The specification regarding the area /length in which the street lights are provided as part of CER proposed is not provided. The cluster certificate is of the year 2020; so, the recent cluster certificate needs to be submitted. **The committee decided to invite the proponent for presentation along with clarification regarding the above observation.**

20. 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

Decision: The Committee examined the proposal submitted by M/s Pridhvi Granites LLP and noted that the proposed project area is 2.6233 Ha, total mineable reserve is 1128200 MT (94,000 MTA) for the mine life is 12 years. The Chulannur Peafowl Sanctuary is at 9.10 km from the proposed area. The committee verified the documents submitted by the proponent and found them satisfactory. The PP has submitted proof of application submitted to NBWL for WL Clearance. **The committee decided to invite the proponent for a presentation.**

21. SIA/KL/MIN/286829/2022, 2103/EC2/2022/SEIAA

Environmental Clearance for the Proposed Granite (building Stone Quarry in block No. 52, Re-Survey Nos. 385/1, 385/7, 385/8, 385/9, 385/10, 385/4 – 3,385/14, 385/13, 385/15, 385/2, 385/2 -2, 385/16, 385/16-3, 385/12-2 of Mancode Village, Kottarakkara Taluk in Kollam, Kerala.

Decision: The Committee examined the proposal submitted and noted that the proposed area is 0.9735 Ha, total mineable reserve is 3,10,040 MT (62,000MTA) and the mine life is 5 years. The Project cost is 1 Cr. The highest and lowest elevation is 215m MSL and 195m MSL. The committee verified the documents submitted. The PP intimated that the crusher unit within 50m is also demolished as per the present requirement for EC and the VO vide Certificate dated 30.12.2022 certified the same. **The committee decided to entrust Dr. A. Bijukumar & Dr. R Ajayakumar Varma for field inspection and report.**

22. SIA/KL/MIN/288750/2022, 2129/EC3/2022/SEIAA

Building Stone Minor Mineral Mining (Quarry) project of Mr. Saji Abraham at Sy. Nos. 917/3B2-2, 917/3B, 917/3B-2, 917/3B1, 917/4-2-3, Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam District, Kerala for an area of 1.4718 ha.

Decision: The Committee reconsidered the observation of the the 137th meeting of the SEAC that the cluster certificate produced indicates that the total area including the proposed project is 3.416 Ha and there are two other quarries under consideration of the SEAC for issuance of EC which together constitute an area of 2.9743 Ha. Though the Committee directed the Proponent to submit ToR application for carrying out EIA studies, the proponent informed that the requirement of ToR for the project is not tenable quoting various OM dated 9.9.2013, 24.12.2013, 7.10.2014, 15.1.2016 and 12.12.2018. Considering the environmental scenario of the site and its surrounding area, it is desirable to have an EIA done and a

comprehensive EMP prepared for implementation. **The Committee decided to seek the direction of the SEIAA in the case prior to further processing of the application.**

23. SIA/KL/MIN/291267/2022, 2116/EC3/2022/SEIAA

Building Stone Minor Mineral Mining (Quarry) project of Sri. Kurian Jose for an area of 4.0425 ha at Sy. Nos. 340/1AS/75/6/2, 340/1A/S/75/6/3/2, 340/1A/S/75/6/9, 340/1A/S/75/6/10, Kottappady Village, Kothamangalam Taluk, Ernakulam, Kerala

Decision: The Committee examined the proposal submitted by Sri. Kurian Jose and noted that as per the application the total mineable reserve is 25,11,088 MT (2,40,000 MTA) and the mine life is 12 years. The Thattekkad Bird Sanctuary situated at Thattekkad Bird Sanctuary 8.30km. The Field verification was conducted on 29.12.2022. Distance to Moderate Hazard Zone 7.9 km and that to the high hazard zone is 8.45 Km. The nearest built structure is at 65 m from the boundary of the proposed area. The Committee observed that the mining will have to be limited to 45m above MSL considering the depth to the water table. The committee verified the documents submitted by the proponent and observed that the following additional documents are required:

1. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms
2. The letter from DFO regarding the distance of the proposed area from the Thattekkad Bird Sanctuary, whether the proposed site falls within the proposed/approved ESZ and the details of the area proposed as ESZ around Thattekkad Bird Sanctuary.
3. EMP seems to be unrealistic and a site-specific EMP based on pertinent environmental issues and with the budgetary provision is to be provided.

The committee decided to invite the proponent for presentation along with clarification regarding the above observations.

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

Environmental Clearance for the Building Stone Quarry for an Area of 3.1424 Ha at Survey No. 568/2- 2,569/1-4,569/1-2,1-3,1-5,1-6, Thirumarady Village, Muvattupuzha Taluk, Ernakulam, Kerala

Decision: The Committee examined the proposal submitted by Sri. Nissamudeen K S for an area of 3.1424 Ha. As per the application, the average annual production is 94780.5 TPA and mine life is 10 years. The high-hazard zone is at 19km. The mine void is reported as 15m and the project cost is 3Cr. The Committee verified the documents submitted by the proponent and found that the revised EMP submitted is not satisfactory. So the Committee decided to get a Site specific EMP based on pertinent environmental issues and incorporating appropriate budget provisions. **The committee decided to invite the proponent for presentation along with clarification regarding the above observations.**

25. SIA/KL/MIN/411101/2022, 1847/EC1/2020/SEIAA

Granite Building Stone Quarry of Vijayan. R over an extent of 0.3900Ha in survey number 339/4 which is situated in Pallickal village, Varkala Taluk, Thiruvananthapuram

Decision: The Committee examined the proposal and found that total mineable reserve is 93,610 MT (18,722 MTA) and the mine life is 5 years. The hazard zone is at 24.45km. The filed inspection was conducted on 20.06.2022 and the presentation was done on 128th meeting of SEAC. The committee verified the documents submitted by the proponent and decided to direct the proponent to submit the following documents:

1. Geo-tagged photograph of the location where the compensatory afforestation is proposed to be done
2. Consent of landowner of the location where OB dumping site is proposed. The document submitted does not indicate this
3. Plan for removal of the boulders distributed within the proposed site and the large boulder just outside the project boundary.
4. Detailed drainage map
5. District Survey Report is not found uploaded, instead biodiversity assessment report is uploaded.
6. Details of sanitation and waste management measures required to be provided at site
7. Details of energy conservation measures proposed to be adopted
8. Proposed plan and methodology for the removal of the boulders distributed within the proposed site and the large boulder just outside the project boundary.

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

1. SIA/KL/MIN/265862/2022, 1989/EC1/2022/SEIAA

Extension of Environmental Clearance of Granite Building Stone Quarry of Sri.Nishad. P.V. over an extent of 3.4277 Ha at Survey Nos. 348/1,2,3 of Thrithala -Village, Pattambi-Taluk, Palakkad, Kerala.

Decision: The Committee examined the proposal submitted by Elayadam Constructions Pvt. Ltd. The total mineable reserve is 454426 MT (85000 MTA) and the mine life is 5 years. The Kadungodkunnu reserve forest is at 6.7 Km and Kadanchirakkunnu reserve forest is at 7.9 Km.

The committee verified the documents submitted by the proponent and found the following shortcomings:

1. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary.
2. Depth to water table from nearest well with geotagged photographs.
3. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms
4. Site specific EMP incorporating appropriate budget provision.
5. Biodiversity status report of the area.

The committee decided to invite the proponent for presentation along with clarification regarding the above observations.

2. SIA/KL/MIN/252208/2022, 857/SEIAA/EC1/2981/2015

Extension of EC for the Granite Building Stone Quarry of Mr. Sivasankaran. P for an area of 2.9103 Ha in Sy.No.318/1/1, 318/1/2, 318/3 pt, 318/4, 319 pt in Thiruvalli Village, Nilambur Taluk, Malappuram District

Decision: The committee verified the documents submitted by the proponent and noted that the application is for the extension of EC issued for 5 years on 10.10.2017, to the life of mine, to extract the balance quantity. The life of mine as per EC issued is 10 years. The Proponent has submitted satisfactory CCR from IRO, MoEFCC, Bangalore. As per the Cluster

Certificate dated 11.01.2023 there is no cluster condition. **The Committee decided to invite the proponent for presentation.**

3. SIA/KL/MIN/259995/2022 , DIA/KL/MIN/7053/2017

Environmental Clearance for the Ordinary Earth Removal at ReSurvey: 431/6-2,431/7 of Arakkappady Village, Kunnathunad Taluk, Ernakulam District, and Kerala for an Area of 36.74Ares

Decision: The EC has expired and the proponent has submitted application after validity period and hence as per the existing norms the delay can not be condoned. **Hence the proponent has to submit application in from 1 for fresh EC. The matter shall be intimated to SEIAA.**

PART 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/INFRA2/407611/2022 , 2147/EC3/2022/SEIAA

Environmental Clearance for the proposed Residential project developed by M/s Veegaland Developers Pvt. Ltd. at Re-Sy. Nos. 51, 51/2-2, 51/3, 51/4, 68, Thekkumbhagam Village, Thripunithura Municipality, Kanayannur Taluk, Ernakulam, Kerala (Fresh proposal)

Decision: The Committee examined the proposal submitted by M/s Veegaland Developers Pvt. Ltd. The total built-up area is 33,231.71 sqm and the total Cost of the Project is Rs. 678100 lakh and there are 141 apartments. Total Land/plot area is 7893 sq. m and FAR proposed is 23963.37

The committee examined the proposal and **decided to invite the proponent for presentation.**

2. SIA/KL/MIN/132322/2019, 1635/EC1/2020/SEIAA

Granite Building Stone Quarry of Shri. Nino K Thomas over an extent of 2.7213 Ha. (6.7243 Acres) at Re-Survey Block No. 31, Re-survey. Nos. 457/1, 457/2, 457/3, 457/4, 457/4-1, 457/5, 457/6 & 457/7, Vadasserikkara Village, Ranni Taluk, Pathanamthitta, Kerala (Referred from 123rd SEIAA)

Decision: The Committee examined the proposal submitted by the proponent and found that the total mineable reserve is 9,62,238.75 and the mine life is 6 years. The Periyar Tiger Reserve is at 13.38km from the proposed area. The presentation was done in the 117th SEAC meeting and field inspection was conducted on 20.01.2021. There has been certain complaints regarding the proposed site and hearing was held. In the 134th SEAC meeting held on 09th to 11th November, 2022 the Committee decided to recommend delisting the proposal since the site is falling in the ESA Village. Now the committee noted the decision of 123rd the SEIAA regarding the ESA Villages, and the Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any. Considering that the haulage road is relocated and the land fragility of the site is very high, the committee decided to conduct a field inspection. Hence **the committee entrusted Smt. Beena Govindan & Dr. Mahesh Mohan for field inspection and report.**

3. SIA/KL/MIN/136154/2020 , 1609/EC1/2020/SEIAA

Environmental Clearance for Building Stone Quarry of Sri. Abdul Vahid. A in Block No: 37, Re Sy 111/1,110/2,110/2-1, Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram (Referred from 123rd SEIAA)

Decision: The Committee examined the proposal submitted by Sri. Abdul Vahid A. The total mineable reserve is 463075 MT (66154 MTA) and the mine life is 7 years. The Shenduruny Wild Life Sanctuary situated at 32Km and Peppara wild life sanctuary is at 32Km. The High Hazard Zone is at 26.05 km from the proposed area. The filed inspection was conducted on 20.06.2022. After the detailed appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 7 years with certain Specific Conditions in addition to the General Conditions and the Authority in its 123rd meeting noted that there is a mass petition regarding the quarry project. The District Collector, Thiruvananthapuram didn't submit a report on the mass petition. Hence the Authority referred the proposal to SEAC to give a definite recommendation after hearing the concerned parties. The committee noted the decision of SEIAA and **decided to hear both the complainants and proponent and directed SEIA Secretariat to issue notice.**

4. SIA/KL/MIN/142587/2020, 1665/EC2/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry project in Re.Sy.No.179/1, 182/1, 2 of Kayyur Village, Hosdurg Taluk, Kasargod District for an extent of 0.6355 Ha of land by Sri. K.V Bhaskaran (Refer back from 123rd SEIAA)

Decision: The committee examined that the pertinent minutes of the 123rd SEIAA and noted the following:

1. Mining is carried out to some extent in the proposed area in previous years and there is an abandoned quarry pit with about 40m vertical scarp at southeast of the project area. The Committee observed that the abandoned quarry pit is an old one which is not found operational for the last few years as evident from the google imagery.
2. As per field inspection report, there are two streams flowing through the proposed project area; one receiving overflow water from the buffer area near BP3 and the other receiving the water from buffer area near BP2 and join in the 1st one. Both the streams are seasonal and are to be retained without obstructing the natural flow. Therefore issuance of EC may be considered as recommended in the 136th meeting of SEAC by adding the following specific condition
 - Both the natural streams should be protected without any obstruction for allowing discharge especially during the raining season.

5. SIA/KL/MIN/156655/2020, 1754/EC3/2020/SEIAA

Environmental Clearance of the proposed Granite Building Stone Quarry of Sri Deepak Cheerothy in Sy. Nos: 171/2-2, 171/4 at Karukutty Village Aluva Taluk, Ernkulam, Kerala (Field Inspection Report received)

Decision: The committee discussed the field inspection report. The proposed project area is 0.9600 Ha, mineable reserve is 3,57,875 MT, average annual production is 71575 TPA and life of mine is 5 years. The depth to water table is 6m bgl. Considering the depth to water table at 69m above MSL, the ultimate mine depth has to be limited to 70m above MSL instead of 60m above MSL. There is a main road at 60m. Hence committee decided to direct the proponent to submit the following additional documents:

1. Revised CER with details of plan proposed, specifications of works and appropriate budget provision including that for maintenance
2. Revised EMP incorporating specific measures required for mitigating all the impacts identified, specific environmental improvement plans, monitoring of critical environmental aspects and transferring the items required for project development to Project cost.
3. Revised Project Cost incorporating the above revisions
4. Compensatory afforestation plan indicating the geocoordinates and geotagged photographs of the site proposed, species identified for planting and maintenance requirement and ownership details or consent of the proposed site
5. Detailed drainage plan incorporating garland drains, silt-traps, settling ponds, outflow channel and connectivity to natural drain along with drainage map depicting the above aspects.
6. Plan for drinking water, sanitation and waste management arrangements to be made in the site
7. Plan for energy conservation measures to be implemented in the site.
8. Fix the boundary pillars firmly on the ground and submit geotagged photographs as proof

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

Expansion of Granite Building stone quarry of M/S Chengalathu Quarry Industries for an area of 0.9900 ha in Sy.No: 575/1-3-6-2pt & 581/1-5-7pt at Konni Thazham Village, Konni Taluk, Pathanamthitta, Kerala (Referred from 123rd SEIAA)

Decision: The Authority in its 123rd meeting directed the SEAC to relook the recommendations of its 136th meeting regarding the issuance of EC for the expansion of the project and verify the applicability of NGT Order dated 18.09.2018 regarding the mandatory Public Hearing for the projects having more than 5 ha area based on detailed observations it made as given below.

“The Authority on verification observed that the Project Proponent has obtained EC for an area of 4.8493 ha vide EC No. 77/SEIAA/KL/172/2013 dated 30.10.2013 in Survey No. 575/1-3- 6-2, 581/1-5-7 for 5 years, which was extended by 1 year up to 30.10.2019 as per

order dated 07.12.2018. Further, out of the above mentioned area (4.8493ha), considering the validity two leases (2.10 ha and 1.0473 ha) with a total area of 3.1473 ha, EC was extended for 5 years i.e., up to 27.12.2024 vide order dated 28.12.2019 as per the direction of the Hon'ble High Court in WP(C) No. 5723 of 2019 dated 23.10.2019. Now the Project Proponent has submitted an application for the expansion of existing EC (3.1473 ha) by adding 0.9900 ha and the total area becomes 4.1373 ha. Since it is an expansion project, the project has to be considered as a new project and the Project Proponent has to submit the Mine Plan, EMP and CER, PFR, etc for the total area as per the existing norms. Instead of a single Mining Plan the Project Proponent has submitted separate Mining Plan for the three separate lease areas (Mining Plan for lease area of 2.10 ha was approved on 13.03.2018, Mining Plan for 1.0473 ha was approved without date and for the lease area of 0.9900 ha mining plan was approved on 25.07.2018) and the EMP submitted is only for the area of 0.9900 ha. Besides, as per the Cluster Certificate issued by District Geologist, Pathanamthitta on 07.04.2022 there is another quarry, having a lease area of 0.90 ha, adjacent to the proposed lease areas within 500 m radius and hence it attracts cluster condition. The Project Proponent has also not submitted the mandatory CCR from the IRO, MoEFCC, Bangalore. Under the circumstances, the Project Proponent has to apply for ToR for the expansion of the project and should submit a single Mine Plan and the CCR from IRO MoEFCC for the expansion of the project”.

The committee discussed the directions of the Authority in detail and suggested that a consolidated note on the appraisal process of the quarry and decisions taken in the past at different times, details of pertinent applications of the proponent, field inspection reports etc are required to address the direction of the SEIAA. **Therefore, the Committee decided to entrust Smt. Beena Govindan to prepare a consolidated note based on which the SEAC can relook its decision taken in its 136th meeting.**

7. SIA/KL/MIN/191604/2021, 1931/EC3/2022/SEIAA

Granite Building Stone Quarry of M/s Deccan Rocks for an area of 3.9736 hectares at Re-Survey Nos. 66/2,66/1,66/3-2,66/3,66/3-1,66/3-4,66/3-5,66/3-7,66/3-3,66/3-6,65/1 of Thalanad Village, Meenachil Taluk, Kottayam, Kerala. (Referred from 123rd SEIAA)

Decision: The Committee perused the proposal along with the decision of the 123rd SEIAA meeting and noted that the SEAC in its 136th minutes mentioned that the mining will lead to the formation of a water storage of depth 20m in a terrain with steep to very steep slope and hence the depth to mining should be limited to 155m above MSL instead of 145m above MSL. The elevation of the site is varying from 130 to 230m amsl. The Authority also decided to direct the Project Proponent to get an approval for mining in the area from the District Level Crisis Management Committee as the quarry site is located in a fragile area just 800 mts from the high hazard zone

The committee noted the decision of SEIAA and verified the decision of SEAC and decided the following:

The recommendation to limit the depth of mining to 155m was because of the fact that a pit will be developed between the section A & A'. Since the pit will be open to other part of the mine there will not be any storage of water. This was an error from the part of the committee. Hence the recommendation of 136th meeting may be considered excluding the condition to limit the mining depth of 155m AMSL. The committee concurs with decision of SEIAA to direct the proponent to get an approval for mining in the area from the District Level Crisis Management Committee as the quarry site is located in a very fragile area with it's border overlapping an extensive moderate hazard zone with high hazard zone located at 800m.

8. SIA/KL/MIN/207053/2021, 2178/EC2/2023/SEIAA

Laterite Building Stone quarry project of K Janardanan for an area of 0.24 Acre in Survey No. 195/1A of Kolathur Village of Kasaragod Taluk of Kasaragod (Fresh Proposal)

Decision: The Committee examined the proposal submitted by Sri K Janardhanan. The total mineable reserve is 4110MT and the mine life is 1 year. The committee verified the proposal and found that the depth to water table is 9m bgl. The distance to the nearest built structure from the proposed site is not provided. **The committee decided to invite the proponent for presentation.**

9. SIA/KL/MIN/269882/2022, 1292/EC2/2019/SEIAA

Environmental Clearance for the proposed Building Stone Quarry Project of Sri. Narikkadan Dasan in Resurvey No. 236/3,237/1&238/2 in Thirumeni Village,

Payyannur Taluk, Kannur District, Kerala State (Letter received from District Collector, Kannur)

Decision: The 115th meeting of the SEIAA decided to refer the case back to SEAC for a definite recommendation after getting a definite report from District Collector, Kannur who is also the Chairman of District Disaster Management Authority. The committee re-examined the proposal and perused the report of the District Collector, Kannur. The committee observed that as per the report, the DC suggested to conduct a study by reputed authorized agencies such as GSI, NIT, Kozhikode etc. for a final opinion. Since the report prepared by SDMA prohibits intensive human induced activities in Thirumeni & Pulingome Villages and the District Collector has suggested a detailed study, the committee decided to direct the proponent to get a detailed study conducted in and around the site upto a distance of 1 km from the periphery of the site with special reference to the possibility of soil piping, landslides and such other hazards by engaging institutions such as NCESS, NIT or GSI.

10. SIA/KL/MIN/288700/2022, 2137/EC3/2022/SEIAA

Environment Clearance in respect of the Proposed Granite Building Stone Quarry over an extent of 0.7582 Hectares in Sy. No. 585/1-4-8, 585/1-7, 584/2 and 584/3 of Mulavoor and Velloorkunnam Villages, Muvattupuzha Taluk, Ernakulam (Fresh proposal)

Decision: The committee examined the proposal submitted for the an area of 0.7582Ha. The mineable reserve is 309165MT (24733MTA) and mine life is 5 years. The nearest built structure is at 0.8 km towards South east of the quarry area. In Form 1, landuse details are not given. The water table depth, mine depth etc in Form 1, PFR & Mining Plan are different. The Committee noted the following shortcomings in the proposal.

1. Compensatory afforestation plan alongwith coordinates of the proposed site, geotagged photographs of the proposed site and the ownership details. consent of the land
2. OB dump site plan
3. Depth to watertable in the nearest dugwell with geotagged photographs of the well and distance from the project.
4. Pre-mining land use details.

The committee decided to invite the proponent for a presentation along with clarification of the above.

11. 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 (Fresh Proposal)

Decision: The Committee examined the proposal submitted by M/s. Tropical Granites. The total mineable reserve is 884813 MT (88,480 MTA) and the mine life is 10 years. The committee observed the following shortcomings:

1. Present land use details are not given
2. Site specific EMP with budget for entire life of mine is not given.
3. Water requirement and availability need detailing
4. Compensatory afforestation plan alongwith coordinates of the proposed site, geotagged photographs of the proposed site and the ownership details/consent of the land is not provided
5. OB dump location with geo coordinates is not provided.
6. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary is not submitted
7. 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.

The Committee also decided to entrust Dr. K N Krishnakumar & Dr. K. Vasudevan Pillai for field inspection and report.

12. SIA/KL/MIN/409822/2022, 2161/EC1/2022/SEIAA

Granite Building Stone quarry project of Sri. Thomas Varghese for an extent of 0.8970 Ha in Block No. 28, Survey Nos. 496/2, 496/2-1, 496/3, 496/4, 496/14, 497/4-1-1 of Mallappally Village, Mallappally Taluk in Pathanamthitta, Kerala (Fresh Proposal)

Decision: The Committee examined the proposal and observed that the total mineable reserve is 2,91,500 MT (80,030 MTA) and the mine life is 4 years. The periyar tiger reserve is situated at 27km. The proposal is located in a rocky terrain with an abandoned quarry. The

Committee observed that the following additional details are required for the appraisal of the project.

1. Recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary
2. Land use details
3. EMP needs reworking with site-specific plan with appropriate budgetary provisions.
4. Mining plan is not found legible and therefore a legible mining plan need to be provided

The committee decided to invite the proponent for a presentation along with clarification of the above.

13. SIA/KL/MIN/411438/2022, 2189/EC1/2023/SEIAA

Granite Building Stone Quarry of Sri. K Anil Kumar for an extent of 1.2210 Ha in Block No. 32, Re-Survey Nos: 188/1pt (government land), 188/3 (private land) of Koodal Village, Konni Taluk, Pathanamthitta District, Kerala (Fresh Proposal)

Decision: The Committee examined the proposal submitted by K Anil Kumar. The total mineable reserve is 336745 MT (67250 MTA) and the mine life is 5 years. The proposed area is situated at 0.59 km from Medium Hazard zone & 9.8 km from High Hazard. The Shendurney Wildlife Sanctuary is at 28.10 km. After detailed discussion, the **committee decided to entrust Dr. Mahesh Mohan & Smt. Beena Govindan for field inspection and report.**

14. SIA/KL/MIN/44488/2019, 1474/EC1/2019/SEIAA

Granite Building Stone Quarry of Sri. Nino K Thomas at Re-Survey Block No. 31, Re-survey. Nos. 394/2, 461/1 & 461/4, Vadasserikkara Village, Ranni Taluk, Pathanamthitta District, Kerala (Referred from 123rd SEIAA)

Decision: The Committee examined the proposal and observed that the proposed area is 2.0832 Ha, the total mineable reserve is 489,563.75 MT (1,15,353.75 MTA) and mine life is 7 years. The presentation was done in the 117th SEAC meeting and field inspection was

conducted on 20.01.2021. In the 134th SEAC meeting held on 09th to 11th November, 2022 the Committee decided to recommend delisting of the proposal since the site is falling in the ESA Village. Now the committee noted the decision of 123rd SEIAA regarding the ESA Villages, and the Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published in the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any. Considering that the haulage road is relocated, portion of the site falls in the moderate hazard zone and the land fragility of the site is very high, the committee decided to conduct a field inspection. Hence **the committee entrusted Smt. Beena Govindan & Dr. Mahesh Mohan for field inspection and report.**

15. SIA/KL/MIN/45999/2019, 1504/EC3/2019/SEIAA

Environmental Clearance for the proposed Building stone Quarry project in ReSurvey Nos. 74/1D of Kuttoor Village, Payyannur Taluk, Kannur District by Sri. Sumith Goyal, Managing Director, M/s. RDS Project Ltd. (A representation received on 13.02.2023, and Sri.Anoop filed a Complaint in SEIAA on 31.01.2023)

Decision: The committee examined the proposal and documents submitted by the proponent and observed that the site is located adjacent to a mine site of the same proponent which was penalized for violations of EC conditions. The area of the site is 0.9710 Ha, mineable reserve is 3,58,110 MT and mine life is 5 years. The boundary of the proposed site seems to overlap with the violated site of the same proponent. The proposal lack a recently certified legible survey map from the Village Office showing the distance to all the built structures within 200m from the project boundary. The Sub Committee of the then SEAC visited the project site on 27.11.2020. The proponent submitted certain additional details sought for. **The committee decided to invite the proponent for presentation with clarification regarding the additional details and shortcomings noted above.**

16. SIA/KL/MIN/72018/2019, 1470/EC3/2019/SEIAA

Granite/building stone quarry (minor mineral) mining project of Shri. P.V Santhosh is situated at Survey. No. 279/2, 279/3-1, 279/3-2, 278//1-1, 278/1-3,

278/1-2, 284/2-2, 284/2-3, 284/2-4, 284/2-1 in Mazhuvannoor Village, Block No. 29, Kunnathunad Taluk, Ernakulam (Evaluation report received)

Decision: The Committee examined the proposal submitted by Sri. P.V Santhosh. The total mineable reserve is 28,36,420 MT (3,31,285 MTA) and the mine life is 12 years. The committee verified the proposal and found that the pre and post mining landuse details are not provided. The committee also discussed the evaluation report. Based on discussions, the committee observed the following.

- The land use pattern of the project area has not been specified. The entire project area (4.7668Ha) is treated as an “undisturbed area”. Also, a “Non-Assignment Certificate” from the competent authority has to be produced in this regard. Rework on ToR 5.
- The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions has not been furnished. Rework based on ToR 6.
- ToR specifies mine safety, especially concerning slope characteristics. However, only blasting details are furnished in the report and there needs to have references on slope characteristics with respect to mine safety. Rework as per ToR 7
- Wind speed during the monitoring period (December 2020 to February 2021) is specified. The wind speed from March to September is also mentioned and the source of data is not specified. The cumulative impact of wind velocity on particulates, especially during summer months may be attempted using adequate models. Also, site-specific management measures have to be suggested, following the wind direction. Noise levels have been monitored at 7 stations, but the cumulative effect of blasting activities on noise levels was not worked out. Also, the suggested management measures are inappropriate, as there is no mention of blasting schedules and noise pollution control. Detail as per ToR 17.
- It is not clear from the report that the water resources specified in the mine plan have been included in the study for the estimation of groundwater levels. A schematic representation of the elevation, working depth, groundwater table etc. is not found attached to the report. Rework on ToR 23.
- Names of certain herbs and shrubs are listed as part of green belt development. An inventory of the tree species ideal for the location may be made and their propagation protocols need to be suggested. Rework on Tor 24.

- The present and anticipated increase in transport infrastructure have to be specified. Also, the impact of an increase in transportation on air quality has to be specified. Rework on ToR 25.
- An amount of Rs. 700000 is earmarked as CER fund. However, site-specific CER activities are not suggested. Rework on ToR 30.
- It is stated that 4 complaints and 2 representations were received from participants during the public hearing. The nature of the complaints and the suggestive measures undertaken in the EIA report may be specified. Detailing required as per ToR 32.

Based on the above observations, the proponent needs to submit the following additional documents:

1. Non-assignment certificate
2. Revised site specific EMP with adequate budgetary provision and specific CER activities based on stakeholder consultation.
3. A legible survey map with distance marked to residential buildings and built structures within 200m.
4. A compensatory afforestation plan with geo-coordinates and geo-tagged photographs of the location alongwith ownership details/consent.
5. Clarification and rework the EIA report based on the above queries based on the ToR for EIA studies.
6. Results of vibration studies for evaluation of the zone of influence and impact of blasting on the neighbourhood as stipulated in the para (e) of OM No. Z-11013/57/2014-IA II (M) dated 29.10.2014 of MoEF & CC.

The committee decided to invite the proponent for a detailed presentation (1 Hour presentation) with clarification on the above points.

17. SIA/KL/MIS/194843/2021, 1904/EC3/2021/SEIAA

Environmental Clearance for the proposed Expansion of Residential project developed by M/s The Federal House Construction Co-Operative Society Ltd. No. E-962 (Evaluation report received)

Decision: The committee verified and discussed the proposal and found that the total land area is 0.7135 ha and the total built-up area after expansion becomes 23,465.95 sqm (Existing Apts. 22,016.20 sqm. + Proposed Club house 1,449.75 sqm.). The expansion of the existing land with additional new land area of 0.0483 ha. The total FAR is 17,402.265 sq.m. (@2.439) and the project cost is Rs. 60.6818 Crores (Existing Rs. 57.25 Crores + Proposed Rs. 3.4318 Crores). The Proponent submitted the existing EC Order no. 148/SEIAA/KL/2938/2013 dated. 18-12-2013 for a built-up area of 23,471.89 sq.m. The Proponent submitted the Certified Compliance Report from Integrated Regional Centre, MoEF&CC, Bangalore vide Certificate No. 12.1/2013-14/14/SEIAA/ KER/1013 dated 1.12.2022 indicating satisfactory compliance. The Committee also received a detailed evaluation report on the proposal prepared by one of the members of the SEAC.

The committee considered the original EC and recent CCR and discussed the evaluation report. Based on discussions, the Committee decided to recommend EC for expansion of existing residential compound by adding a club house of area 1,449.75 sqm. in the additional land of 0.0483ha procured subject to the following Specific Conditions in addition to the General Conditions:

1. Treated water from STP is to 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 in to the nearby public drain.
2. Local topography of land profile should be maintained as such by avoiding deep cutting /filling.

18. SIA/KL/MIS/273775/2022 , 2109/EC3/2022/SEIAA

Proposed Expansion of the Building Project Adlux Medicity and Convention Centre Pvt. Ltd. at Karukutty Village, Aluva Taluk, Ernakulam, Kerala (Field Inspection Report received)

Decision: The committee examined the proposal and the EC issued No. 1186/A2/2018/SEIAA dt. 27.2.2020 for 7 years. The Committee observed that the total built up area for which EC was issued in 2020 for 24043.66 m². The total built up area regularized in 2020 was for 73379.68 m². The environmental damage assessed was Rs. 105.92 lakh and Bank guarantee for Remediation & Community & Natural Resource Augmentation Plans is for Rs. 551.1 Lakh. The total built up area proposed for EC

Expansion is 45,219.34 m². The total built up area claimed as exempted from EC (Educational) is 11,600.00 m² and the BUA requiring EC Expansion is 33,619.34 m². The Total plot area is 1,70,597 m² (42.15 Acres). The project cost is Rs. 10200 Lakh and the EMP cost is Rs. 365 Lakh as Non-Recurring and Rs. 13.87 Lakh per annum as Recurring. The Sub committee inspected the site on 07.01.2023. **The committee discussed the filed inspection report and decided to direct the proponent to submit the following additional details:**

1. Certified Compliance Report from the Integrated Regional Office, MoEF & CC, Bangalore
2. Explanation for the poor progress of implementation of Remediation and Community & Natural Resource Augmentation Plan
3. Response of the Proponent to the OM dated 4.10.2022 (which clarifies the amendment of OM dated 22.12.2014 exempting educational institutions from obtaining EC) which states that OM dated 22.12.2014 is only applicable in the functional jurisdiction of Hon. High Court of Kerala subject to the outcome of the writ petition WP(C) No. 3097 of 2016 (S) dated 17.9.2020 and 23.11.2020.
4. Detailed plan for management of biodegradable and non-biodegradable solid waste specifying technologies being used and proposed to be used and integrating the waste being generated at present and proposed to be generated as a result of expansion
5. Revised stormwater management plan incorporating rainwater recharge structures, rainwater harvesting facilities and excess water discharge, if any, to natural drains etc.
6. Depth to water table measured in each source of groundwater and the date of measurement along with geo-coordinates of each well
7. Details of safe yield of each groundwater sources proposed to be used
8. Plan for enhancing groundwater recharge and rainwater harvesting
9. Revised EMP incorporating additional measures such as groundwater recharge, rainwater harvesting, stormwater management, solid waste management etc.
10. Revised CER incorporating monitorable physical targets based on stakeholder consultations as per the relevant OM
11. Integrated EMP for existing project and proposed expansion
12. Integrated CER for existing project and proposed expansion
13. Scope for improving energy conservation measures in addition to the proposed plan

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

1. SIA/KL/MIN/293383/2022, 843/SEIAA/EC3/2805/2015

**Environmental Clearance for the building stone quarry for an Area of 2.4169 Ha
at SurveyNo.217/2- 2,217/2-3,217/2-1,218/3 Of Parakkadavu Village, Aluva
Taluk, Ernakulam District, Kerala (Fresh proposal)**

Decision: The committee verified the proposal and documents submitted by the proponent and found the following shortcomings:

1. Scheme of mining
2. Certified Compliance Report from the IRO, MoEF & CC, Bangalore
3. Proof of consultation with the stakeholders while preparing the CER plan
4. PFR based on DSR
5. Depth to water table in the nearest dug well
6. Biodiversity assessment report
7. Proof of CSR expenditure
8. Cluster Certificate

The committee observed that the EC issued on 2017 was set aside by Hon'ble HC on 24.01.2018. The proponent in his covering letter submits that his application is valid since DEIAA is no more existing. The committee expressed apprehension about the validity of the EC issued in 2017 and set aside by the Hon'ble High Court of Kerala on 24.01.2018. The committee also decided to seek clarification on whether the quarry is operational at present or not. **In order to evaluate the project status and clarify the apprehensions, the Committee decided to invite the proponent for a presentation.**

PART 3

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/128666/2019 , 1958/EC1/2022/SEIAA

Granite Building stone quarry of Shri. Martin Varghese, with an area of 0.996 Ha in Re- Survey No: 96/5, 96/6 Block No.2 in Vilapilsala Village, Kattakada Taluk, Thiruvananthapuram District (Field Inspection Report Received- Deferred from 138th SEAC)

Decision: The Committee examined the proposal submitted by the proponent. The mine life is 5 years, total mineable reserve is 2,36,775 MT with average annual production of 47355 MTA. The committee discussed the field inspection report and decided to direct the proponent to submit the following additional documents:

1. Letter from Wild Life Warded/DFO regarding the distance of the proposed site from the Neyyar WL Sanctuary, distance proposed/notified for the ESZ towards the site and statement whether the proposed site falls within the ESZ.
2. Provide a Transportation Plan by avoiding the narrow road connecting habitations and passing through the front side of the EMS Academy.
3. Provide details of the quantity of topsoil to be excavated.
4. Provide details of the water table as monitored in the nearest dug wells and geotagged photographs of the wells monitored.
5. Explanation for uploading KML file of another quarry site and make available the the KML file of the project site.
6. Provide a revised plan with a map showing the OB Dump site with geo-coordinates for boundaries in the open land available at a lower elevation for ensuring safe storage and easy removal and usage of soil at the time of closure of the mine. The plan should also contain a provision for providing Gabion Walls / side protection for the proposed OB dump.
7. Affidavit for carrying out compensatory afforestation indicating the land proposed for compensatory afforestation along with its geo-coordinates and geotagged photographs and also the ownership details/consent, as the site proposed in the application by the Proponent is not found feasible.

8. Provide a development plan for the proposed haulage road with allowable gradient, as the land has a steep gradient.
9. Provide proof after fixing the Boundary Pillars with concrete base
10. Clarification whether the proposed area overlaps the old quarry site if so, details.
11. Details of the old quarry site as to its validity of lease, area and ownership
12. Revised EMP with site specific mitigation measures along with adequate budget provision

2. SIA/KL/MIN/135339/2020, 2027/EC3/2022/SEIAA

Ordinary Earth of Mr. Binu K. Alias, Kizhakkethenattumoolayil House, Vadayambady P.O , at Block No.49Re-Sy.No:132/5,132/6,132/14,132/22, in Aikarand South Village, Kunnathunad Taluk, Ernakulam, Kerala (Field Inspection Report received - Deferred from 138th SEAC)

Decision: The committee examined the field inspection report conducted to reverify the apprehension raised by SEIAA in its 119th meeting. Considering the distance to the nearest built structure, it is not feasible to consider the depth of extraction as per the Mining Plan i.e, upto 18m. However, it is feasible to extract soil to a depth of 2m below ground level leaving a buffer of 15m between the boundary of the proposed pit & the nearest building, subjected to specific conditions recommended in the 132nd SEAC.

3. SIA/KL/MIN/148486/2020, 1640/EC3/2020/SEIAA

Environmental clearance for Granite building stone quarry of Mr. P.V Paul, for an extent of 0.9905 Ha in Re.Sy No:263/1 of Thuravoor- Village, Aluva Taluk, Ernakulam, Kerala (Additional Documents Received - Deferred from 138th SEAC)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report conducted on 16.11.2022. The minable reserve is 1,53,170 MT, the life of mine is 5 years and the average annual production is 30634 TPA. The site is not in any landslide hazard zone. The distance to the nearby house is 51m. Depth to the water table is 10m bgl. Based on discussions, the Committee decided to recommend EC for 5 years with the following specific conditions in addition of general conditions.

1. The mining should be Limited to 25m above MSL considering the depth to water table.

2. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
3. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.
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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be developed and maintained well and dust-free with permanent sprinkling arrangement.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
13. 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/KL/MIN/151053/2020 , 1817/EC6/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Of Mr.Kuttiamu Haji In Survey No:174,Cherukavu Village, Kondotty Taluk, Malappuram District, Kerala (Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report conducted on 02.07.2022. The minable reserve is 123383.50 MT, the life of mine is 5 years and the production plan is 24676.7 MTA. The nearest built structure is at 102m. Based on discussions, the Committee decided to recommend EC for mine life of 5 years with the following specific conditions, in addition to general conditions.

1. A temporary wall of 4m height should be provided connecting the boundary pillars BP2-BP1-BP6-BP5 facing the main road
2. A buffer distance of 50m should be provided from the project boundary to the reported tool shed near BP3.
3. Impact of vibration due to blasting on the nearest houses and built structures 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. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.
5. 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.
6. 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.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. 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.
9. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.

10. 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. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
15. 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

5. SIA/KL/MIN/163826/2020, 1837/EC6/2020/SEIAA

Environmental Clearance for the Granite Building stone of Shaukathali AK over an extent of 1.3230Ha in Survey Nos. 51,52-1in Pullippadam Village, Nilambur Taluk, Malappuram District, Kerala (Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report conducted on 02.07.2022. The minable reserve is 336285 MT, the life of mine is 10 years and the production plan is 33600MTA. Dist.to other nearest built structure is at 295m. Based on discussions, the Committee decided to recommend EC for mine life of 10 years with the following specific conditions, in addition to general conditions.

1. Depth of mining should be limited to 20m AMSL instead of 15m in the approved Mine Plan considering the depth to groundwater table.
2. Development of green belt to be initiated prior to the commencement of mining operation.
3. Compensatory afforestation to be initiated prior to the commencement of mining.
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. Haulage road should be developed 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 compliance report.
7. Retaining wall of appropriate height should be provided at the overburden dumping site.
8. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be maintained well with frequent sprinkling.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations.

6. SIA/KL/MIN/169289/2020, 1843/EC6/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry of Sri. Sudheermon. P.P in Survey No:217/4, In Pulpatta Village, Eranad Taluk, Malappuram District, Kerala (Additional Documents Received)

Decision: The Committee examined the proposal submitted by Sri. Sudheermon P P. The total mineable reserve is 222929.15MT (44585.83 MTA) and mine life is 5 years. The field inspection is completed and the presentation was done in the 128th SEAC meeting. The committee verified the documents submitted by the proponent and it is not found satisfactory. Hence committee decided to direct the proponent to submit specific report for biodiversity conservation in the proposed area based on the status of the biodiversity in and around the location and considering the impacts anticipated.

7. SIA/KL/MIN/173485/2020, 1834/EC6/2020/SEIAA

Environmental Clearance for the Granite Building Stone Quarry of Sri. Sameer P. for an extent of 2.7047 Ha at Re. Sy. No. 237/2, 237/1, 237/1-2 of Nediyruppu Village, Kondotty Taluk, Malappuram Kerala (Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The minable reserve is 12,09,122 MT, the life of mine is 12 years and

the production plan is 1,00,760MTA. The nearest house is reported at 213m. A portion of the site falls in the moderate hazard zone. Based on discussions, the Committee decided to recommend EC for a mine life of 12 years with the following specific conditions, in addition to general conditions.

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. Road to the project area shall be widened before the initiation of mining activity.
3. Water harvesting measures are to be adopted before the initiation of mining activity.
4. Impact of vibration due to blasting on the nearest houses and built structures, especially the school building 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. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.
6. 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.
7. 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.
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 HYCR.
9. 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.
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. The haulage road should be developed and maintained well and dust-free with permanent sprinkling arrangement.
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
15. 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

8. SIA/KL/MIN/176680/2020, 1877/EC3/2021/SEIAA

Environmental Clearance for the Granite Building Stone of Mr. Siraj Hussain at Re-Sy:-281/2-3 of Mundakkayam Village, Kanjirappally Taluk, Kottayam - (Transferring of file from TOR to EC, Granite Building Stone Quarry of Siraj Hussain -111th meeting of SEAC)-(Additional Documents Received - Deferred from 138th SEAC)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report. The project area is 0.9713 Ha having mineable reserve of 1,63,340 MT, production capacity of 32,668 MT and mine life of 5 years. The nearest built structure is 69m from the project boundary and the depth to water table is reported as 8m bgl. The site falls in an extensive moderate hazard zone on the upper slope of a hillock, the hillock having high relative relief from 120m to 500m above MSL (as per google imagery). The elevation of the site vary from 330m to 360m above MSL. The high hazard zone is at a distance of 3.7km and the entire region in which the site is located is highly vulnerable to landslides. The area was also a major hotspot of natural hazards during the devastating flood incidences of 2018 and 2019. **Considering the severe hazard potential of the region in which the site is located, the Committee decided to recommend rejection of the proposal based on precautionary principle.** Another proposal, adjacent to the site with File No. SIA/KL/MIN/204998/2021 was also rejected based on the same reason

9. SIA/KL/MIN/195129/2021, 1893/EC4/2021/SEIAA

Environmental Clearance for the proposed Granite Building Stone Project of M/S Puthalam Constructions Pvt. Ltd. for an area of 2.0235 hectares in Re-Survey Nos. 21/149, 21/124,21/145, 21/148, 21/147, 21/156, 21/144 (Old Sy. No. 21/1A1), Kolayad Village, Thalassery Taluk, Kannur Kerala. (Additional Documents Received)

Decision: The proposal is for the extraction granite building stone of 8,42,144 MT (1,05,268 TPA) with Mine life of 8 years. The nearest house is at 202 m and depth to watertable is 3m below ground level at the valley portion away from the proposed site. The presentation was done on 06.08.2022 and field inspection conducted on 25.10.2022. The site does not fall in landslide hazard zone. The elevation of the area vary from 95-135m above MSL and the ultimate mine depth is 80m above MSL. The committee verified the documents submitted by the proponent. Initially, the Proponent submitted three activities as part of the CER Plan which included (i) Protection of Kozhimoola- Puthalam thodu by protection wall construction and maintenance, (ii) Health care of Scheduled Tribes by renovating the immunisation room and other facility and (iii) Installation of 10 solar street lights and its maintenance. On seeking revised CER with monitorable physical targets and stakeholder consultation, the Proponent submitted a single activity for Renovation of immunisation room, toilet and other facilities in the Peruva PHC and its maintenance. On seeking specification and work plan of each proposed activity, the Proponent submitted an additional intervention for providing furniture and beautification of government convention centre at Pinarayi Grama Panchayat, Kannur but failed to provide the details sought for. Therefore, the Committee decided to direct the Proponent to submit the specification and work plan of each activities as sought in the 136th meeting of SEAC.

10. SIA/KL/MIN/204626/2021, 1351/EC2/2019/SEIAA

Environmental Clearance for the Building Stone quarry of Smt. K. Malathy over an area of 3.9800 Ha in Sy. No. 253/14, 266/1 & 266/2 of Cherukave village Kondaty Taluk, Malappuram Kerala (Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The Committee also discussed the salient aspects of the EIA report, EMP and the minutes of the Public Consultation. The mineable reserve is 8,66,790 MT (86,679 TPA) and the life of mine is 10 years. The depth of the water table is 56m from the

surface and distance to the nearest house is 116 m. The proposed area is an abandoned quarry. Based on discussions, the Committee decided to recommend EC for mine life of 10 years with the following specific conditions, in addition to general conditions:

1. The depth of mining should be limited to 95m above MSL considering the depth to water table.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. 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.
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 HYCR.
5. Impact of vibration due to blasting on the houses and built structures upto 200m 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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. 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).
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
11. 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.

11. SIA/KL/MIN/204850/2021 , 1352/EC2/2019/SEIAA

Environmental Clearance for the Building Stone quarry of Sri. Jayaprakash K situated at Sy. No. 253/14 & 266/2 of Cherukavu Village, Kondaty Taluk, Malappuram district of Kerala (Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents, and discussed the field inspection report. The Committee also discussed the salient aspects of the EIA report, EMP and the minutes of the Public Consultation. The proposed site is an abandoned quarry. The mineable reserve is 1,88,740 MT (18,874 TPA) and the life of mine is 10 years. The distance to the nearest house is 116 m. Based on discussions, the Committee decided to recommend EC for a mine life of 10 years with the following specific conditions, in addition to general conditions:

1. The depth of mining should be limited to 95m above MSL considering the depth to water table.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. 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.
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 HYCR.
5. Impact of vibration due to blasting on the nearest houses and built structures 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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. 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).
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.

10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office.
11. 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.

12. SIA/KL/MIN/221515/2021, 1922/EC1/2021/SEIAA

Granite Building Stone Quarry of M/s Chand V Granites at Re. Sy. No. 305/1,2,3,4,5,6, 305/6-2, 305/6- 3,306/2, 309/3 in Vadakarapathy Village, Chittur Taluk, Palakkad District, Kerala.(Additional Documents Received - Deferred from 138th SEAC)

Decision: The Committee examined the proposal, verified the documents submitted by the proponent and discussed the evaluation report. The mineable reserve is 2, 32, 020MT (46,404TPA) and the life of mine as per the approved mine plan is 5 years. Considering this, the Committee decided to recommend EC for a mine life of 5 years with the following specific conditions, in addition to general conditions:

1. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
2. 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.
3. 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.
4. Impact of vibration due to blasting on the nearest houses and built structures 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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
6. 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).

7. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
8. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
9. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office.
10. 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.

13. SIA/KL/MIN/222222/2021, 1920/EC4/SEIAA/2021

Environmental Clearance for the Proposed Granite Building Stone Quarry of Mr. Haridasan at Re Survey No. 3/1237, 3/744 of Engapuzha Village, Thamarassery Taluk, Kozhikode District, and Kerala for an area of 1.3050 hectares (ADS Received)

Decision: The Committee examined the proposal, verified the documents submitted by the proponent. The mineable reserve is 256785 MT ((51357 TPA) and the life of mine as per the approved mine plan is 5 years. The depth to watertable reported is 37m above MSL. Distance to nearby house is 97m. The distance to Malabar Wildlife Sanctuary is reported as 4km and the Proponent submitted proof of application to NBWL for clearance. Considering this, the Committee decided to recommend EC for a mine life of 5 years with the following specific conditions, in addition to general conditions:

1. The entire boulders present in the project area should be removed by adopting the action plan submitted by the Proponent prior to the commencement of mining.
2. The impact of vibration should be monitored in terms of Peak Particle Velocity and Amplitude and included in the HYCR.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
4. 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.

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 HYCR.
6. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. 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. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office.
12. 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.

14. SIA/KL/MIN/222256/2021, 1919/EC4/SEIAA/2021

Environmental Clearance for the Proposed Granite Building Stone Quarry of Sri. Haridasan for an area of 3.5823 hectares at Re Survey No. 3/1047, 3/1419, 3/1416, 3/1418 of Engapuzha Village, Thamarassery Taluk, Kozhikode Kerala.(Additional Documents Received)

Decision: The Committee examined the proposal submitted by Sri. Haridasan. The total mineable reserve is 2539300 MT (126965 MTA) and the mine life is 20 years. The Malabar Wildlife sanctuary situated at 4.1kms. **The committee examined the additional documents submitted and discussed the proposal and observed the following:**

1. The PP has to submit a feasible plan for conserving the pond & connected 1st order stream after assessing the period & quantity of flow.

2. One of the boundaries connecting BP 4 & BP5 is located at the south western slope of the hill. There are built structure found at the downstream side. Therefore proponent is directed to submit a plan for safe guarding the built structures.
3. CER should be submitted as part of the EMP.

15. SIA/KL/MIN/271891/2022, 2687/A2/2019/SEIAA

Ordinary Earth removal project over an area of 0.4947 Ha in survey no.473/1,473/1-1 of Velloor Village , Vaikom Taluk, Kottayam District (Field Inspection Report Received-Deferred from 138th SEAC)

Decision: The Committee examined the proposal submitted by Sri. Serene Scaria. The total mineable reserve is 59,200 and the mine life is 1 years. The Committee discussed the filed inspection report and observed that removal of soil from the southern portion of the site falling around BP1 & BP6 is necessary from a safety point of view, especially for those using the adjacent road. It is also not desirable to remove the soil by keeping a buffer all around the proposed site from the safety point of view. Therefore, the Committee decided to inform the Authority that it is desirable to advise the proponent to submit a plan for the removal of soil to a height of around 8m at the southern side & 2m in the northern side to maintain a gradient from North to South. The plan should be such that it should not affect the building at the boundary of the proposed site between BP2 and BP3.

16. SIA/KL/MIN/275123/2022, 2037/EC1/2022/SEIAA

Granite (Building Stone) Quarry of Sri. Arun Varghese, Managing Director, Kottakkal Granite Industries Pvt Ltd with area of 0.7310 Ha in Block No. 18, Re-Survey Nos. 177/1pt(Govt. land) 178/2, 178/11 & 178/17 in Anad Village, Nedumangad Taluk, Thiruvananthapuram District. (Field Inspection Report Received - Deferred from 138th SEAC)

Decision: The Committee examined the proposal submitted by Kottakkal Greanites. The total mineable reserve is 1,99,875 MT (40,000 MTA) and the mine life is 5 years. The Peppara Wildlife Sanctuary is at 17.15 km. The presentation was done in the 134th SEAC meeting. The committee discussed the field inspection report conducted on 08.01.2023 and observed that a quarry with an area of 3.6849 ha owned by the proponent of is now seen abandoned. The site involves government and private land. A portion of the proposed site falls in the abandoned quarry. It is informed that that quarry was working up to July 2022.

Rock exposures and boulders are seen in the site. Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Copy of the mine closure plan of the recently abandoned quarry and the progress of implementation of closure [lan.
2. Certified Compliance Report from the IRO, MoEF & CC, Bangalore for the quarry reported to have completed operation in July 2022.
3. Plan for removal of the boulders, inside and at buffer zone area.
4. Mitigation measures for avoiding rock fall from the project site considering the existing site conditions.
5. Compensatory afforestation plan along with geo-coordinates of the proposed site for it and geo-tagged site photographs and ownership details/consent.
6. Development Plan for the proposed approach road with allowable gradient, as the land is having very steep gradient.
7. Proof of boundry pillars after it is fixed firmly on the ground using concrete base
8. Provide a time bound action plan with cost estimates for the proposal to use existing mine void for water storage and its use for local requirements.
9. Revised plan with map showing sites for OB Dump and top soil storage in the open land available at lower elevation. The plan should also contain provision for providing Gabion Walls / side protection for the proposed storage sites.
10. Letter from the DFO/Wildlife Warden indicating the distance of the site from the Peppara Wildlife Sanctuary and the width of the proposed/approved ESZ towards the project site and statement whether the proposed site falls in the proposed/approved ESZ.
11. Revised EMP based on the site specific environmental issues and their mitigation plans and adequate budget provision for its implementation.
12. Depth to water table below ground level monitored in the nearest dug wells

17. SIA/KL/MIN/276958/2022, 2049/EC3/2022/SEIAA

Environmental Clearance for Granite Building Stone Quarry of M/s. Jesus Granites Pvt. Ltd. over an area of 1.4781 Hectare, situated in Survey No. 911/1-5, 916/3, 916/3-2, 916/3-3, 916/3-4 of Kallorkad Village, Muvattupzha Taluk of Ernakulam District and Kerala (Clarification obtained -121st SEIAA - Deferred from 138th SEAC)

Decision: The Committee examined the proposal submitted by M/s. Jesus Granites Pvt. Ltd. The proposal is to extract mineable reserve of granite building stone to the tune of 6,84,830 MT (1,00,000 TPA) and the Mine life is 7 years. The depth to water table is 30m above msl. The project was presented before the SEAC in its 134th meeting. The committee noted the clarification given by the 121st SEIAA & examine the EIA /EMP submitted by the proponent considering two adjacent proposal as a single unit. The committee observed the following shortcomings:

1. While integrating the EMP of both the project the recurring expenditure has come down significantly.
2. The CER proposal needs to be integrated considering both the project as a single unit along with revision including the monitorable physical targets.
3. The non recurring expenditure of the EMP is not addressed well.

The Committee decided to direct the Proponent to address the above shortcomings and submit additional details.

18. SIA/KL/MIN/277815/2022 , 2050/EC3/2022/SEIAA

Environmental Clearance for Granite Building Stone Quarry of M/s. Jesus Granites Pvt. Ltd. over an area of 1.4962 Hectare, situated in Survey No. 916/1-2, 916/1-2-2, 916/3-4, 917/1, 1122/1 of Kallorkad Village, Muvattupzha Taluk of Ernakulam District and Kerala (Clarification obtained -121st SEIAA - Deferred from 138th SEAC)

Decision: The Committee examined the proposal submitted by M/s. Jesus Granites Pvt. Ltd. The proposal is to extract mineable reserve of granite building stone to the tune of 670805 MT (1,10,000 TPA) with Mine life is 7 years. The depth to watertable is 30m above msl. The project was presented before the SEAC in its 134th meeting. The committee noted the clarification given by the 121st SEIAA & examine the EIA /EMP submitted by the proponent considering two adjacent proposals as a single unit. The committee observed the following shortcomings:

1. While integrating the EMP of both the project the recurring expenditure has come down significantly.
2. The CER proposal needs to be integrated considering both the projects as a single unit along with revision including the monitorable physical targets.

3. The non recurring expenditure of the EMP is not addressed well.

The Committee decided to direct the Proponent to address the above shortcomings and submit additional details.

19. 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 (Field Inspection Report Received- Deferred from 138th SEAC)

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The Committee also discussed the EIA report, EMP and proceedings of the Public Consultation held on 26.11.2021. The total mineable reserve is 16,39,470MT. The highest and lowest elevations of the proposed area are 240m and 115m. The site is located on the side slope of a residual hill with an elevation of about 284m above MSL. The project area does not fall in any landslide hazard zone. The proposed life of mine is 16 years with an average annual production of one lakh tone. The nearest house is at 122m from the project site and built structure is at 78m. The depth to water table is 3m bgl. The distance between the Silent Valley National Park and the Project site is 4.4km as reported in the application. It is also reported that the ESZ of the Silent Valley National Park is 1.7km. It needs to be confirmed from the DFO. The Proponent has applied for Wild life clearance in National Board of Wild life vide file No FP/KL/QRY/5369/2020 dated 25.09.2020. Almost all the participants who participated in the discussion during the Public Consultation expressed their concern regarding the possibility of landslides, loss of natural drains, possible damages to the stream flowing near the site and water stress. The participants also referred to the landslides of 2018 in Kottamala. The Committee discussed the details and decided to seek the following additional details.

1. A letter from the DFO regarding the distance of the site from the Silent Valley National Park and the width of the proposed/approved ESZ towards the project site and also stating whether the proposed site falls within the ESZ.
2. The EIA gives the project details only for 10 years of mining whereas it states that the life of mine is 16 years. Therefore, provided explanation for not mentioning the mining details for the entire life of mine.

3. Provide micro-meteorological data of the site and the source of the meteorological data from secondary sources given in the report
4. Provided details as sought in ToR-5, ToR-6 and ToR-7
5. The monthly rainfall data given in the Chapter 3 of the EIA report is up to 2011 only. Describe the hydrological implications based on latest data
6. Provide details of monitoring stations used for hydrogeological and groundwater studies and details of the study conducted as per ToR-24, ToR-26, ToR-27, ToR-28 and ToR-30.
7. Provide details pertaining to ToR-8, ToR-9, ToR-10, ToR-11 and ToR-15.
8. The traffic study is not found done based on traffic data collected from the field at different traffic points within the impact zone and data collected during the entire day time on a working day and holiday. Provide a revised traffic impact study as envisaged in ToR-32.
9. The pictorial representation of the windrows and airquality modelling results
10. Provide EMP based on the environmental impacts identified and other environmental issues pertaining to the impact and evolve site specific mitigation measures and by incorporating budgetary provisions for the entire life of mine.
11. Revised CER based on detailed stakeholder consultation, physical target and adequate fund required for implementation and maintenance for the entire mine life. While revising the CER proposal, priority should be given to the tribal colony situated 1.25 km from the proposed site based on their detailed need assessment.
12. Provide details as per ToR-29, ToR-33, ToR-34, ToR-35, ToR-36, ToR-37 and ToR-42.
13. A statement of compliance to the ToR indicating the page in which the details pertaining to the specific ToR is dealt with in the EIA report.
14. Specific plan for Energy Conservation
15. Plan for developing channel way for over flow water from the siltation pond to the natural stream.
16. Plan for specific OB dumping site and its protection
17. Plan for developing haulage road, if not available.
18. Conduct Vibration studies to evaluate the zone of influence and impact of blasting on the neighbourhood as suggested in Para (e) of OM No. Z-11013/57/2014-IA.II dated 29.10.2014 of MoEF & CC and provide details

20. SIA/KL/MIN/78419/2019, 1516/EC3/2019/SEIAA

Environmental Clearance for the Granite Building Stone quarry project of Sri. Muhammedali. P for an area of 5.0511 Ha in Block No.56, Sy.No.382/1-2, 382/2, 383/1, 383/1-1 in Morayur Village, Ernad Taluk, Malappuram (Evaluation Report Received)

Decision: The Committee examined the proposal, verified the documents and discussed the evaluation report. The Committee also discussed the salient aspects of EIA report, EMP and proceedings of the Public Consultation held on 19.01.2022. The total mineable reserve is 30,34,007 MT. The highest and lowest elevations of the proposed area are 365m and 235m. The site is located on the side slope of a hill with elevation of about 370m above MSL. The project area falls in moderate hazard zone almost in its entirety. The land fragility of the area is high as per the landslide hazard zonation map. Many of the details to be provided in the application form are found missing. Only six people participated in the discussion during the public hearing. There are many shortcomings in the EIA report and some of them are given below.

- Many of the columns in Form 1 is found unfilled.
- Vibration studies to evaluate the zone of influence and impact of blasting on the neighbourhood as suggested in Para (e) of OM No. Z-11013/57/2014-IA.II dated 29.10.2014 of MoEF & CC is not found conducted.
- An environment policy approved by the board of directors of the project is missing
- Details as per the TOR-16, the mineralogical composition of PM10, particularly for free silica is not given..
- The ToR 17 is not adequately and properly addressed.
- The Table 3-9 regarding Water quality indicates anomalies which is not found addressed in the EIA report.
- Table 3.16 : Clay content is high (41.4%) and together with silt , the fine fraction comes around 63%. The characteristics of clay is highly significant to understand the landslides proneness, however the same has not been carried out. illite and montmorillonite clay minerals have lower shear strengths and higher swelling potentials and are more prone to landslides.
- No traffic study is found conducted.
- No details given regarding Occupational health impacts and its mitigation
- The Project cost, EMP and CER need revist and revision

- The details of area demarcated for compensatory afforestation plan is not given

Based on the discussions, the committee decided to invite the proponent for presentation.

21. SIA/KL/MIN/410119/2022, 2190/EC2/2023/SEIAA

Environmental Clearance for the Proposed Granite (Building Stone) Quarry in Block No.4, Re-Survey Nos: 228/3 (Government land), 228/2 & 228/4 (Patta land) of Pattazhy Village, Pathanapuram Taluk, Kollam District, Kerala for an extent of 1.1769 Ha under B2 category (FIR Received)

Decision: The Committee examined the proposal submitted by Sri. Najeem A for an area of 1.1769 Ha. The total mineable reserve is 197850 MT (39500 MT per annum) for a mine life of 5 years. The project cost is 1.10Cr. The depth to water table is 10m bgl at 56m East to BP 18. The site does not fall in any landslide hazard zone. The committee discussed the field inspection report and observed the following short comings:

1. Modified EMP with CER
2. Biodiversity assessment report
3. Compensatory afforestation plan including site coordinates, type of plants, method of afforestation (for example Miyawaki), consent letter from the owner of the site (individuals /schools/colleges/panchayath)
4. Photos showing properly fixed boundary pillar
5. Detailed OB dump plan
6. Detailed top soil storage plan
7. Detailed drainage plan that shall include garland canals, siltation ponds, outflow channels etc as well as plan for protection of seasonal nalla
8. Proof of stakeholder consultation for the proposed CER activities.
9. Proposal for energy conservation measures
10. Proposal for sanitation facility
11. Detailed plan for rainwater harvesting
12. Details of sufficient source of water
13. Details of waste generation and its management
14. Traffic study and feasibility study for big trucks
15. Affidavit for road development

16. Water quality assessment of open well and natural drain which lead drain water to Kallada river
17. Details of protection measures used during the mine closure.
18. Submit geotagged photos of concrete Boundary pillars fixed with concrete
19. Plan for the removal of boulders

Based on discussions, the committee decided to invite the proponent for presentation.

The Committee decided to convene the 140th meeting of SEAC on 13th, 14th & 15th March, 2023.

The meeting ended at 6.00 pm on 4th March 2023 with vote of thanks to the Chair

Sd/

**Suneel Pamidi, IFS
Secretary, SEAC**

Sd/

**Dr.Ajayakumar Varma
Chairman, SEAC**

Sl.No.	Name	03.03.2023	04.03.2023
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	✓	✓
6.	Dr.C.C.Harilal	✓	✓
7.	Dr.K.VasudevanPillai	✓	✓
8.	Dr.MaheshMohan	✓	✓
9.	Dr.K.N.Krishna kumar	✓	✓
10.	V.Gopinathan	✓	✓
11.	Dr.A.V.Raghu	✓	✓
12.	Dr.N.Ajithkumar	✓	✓
13.	Shri.Suneel Pamidi,IFS (Secretary)	✓	✓
14.	Dr.R.Ajayakumar Varma (Chairman)	✓	✓

