

orographic effect that facilitates summer rains in Kerala

**Based on the above observations, the Committee decided to recommend rejection of the proposal.**

### **PART I**

**1. SIA/KL/IND1/405847/2022; 1972/EC3/2022/SEIAA**

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

**Decision:** The Committee discussed the field inspection report conducted on 5.3.2023 and observed the followings impacts;

- Nuisance due to air pollution and noise level to the adjacent residential population
- Threat on the physical safety of buildings within and adjacent areas of the site due to the vibration level anticipated due to heavy vehicle movements and machineries
- Heat generated in the factory premises and its impact on the workers and people living in the surrounding areas.

**The Committee decided to direct the project proponent to submit the following additional documents:**

1. Details of houses and other built structures within the distance of 200m from the boundary of the project site
2. High resolution map of the area encompassing 100m all around the project site
3. Legible layout map of the project area and engineering layout of the existing and proposed plant, storage area, green-belt area, utilities etc.
4. Legible schematic map of the multi-layer green belt proposed to be developed
5. Consolidated materials and energy balance for the project
6. Water balance diagram and yield characteristics of the proposed sources and details of water harvesting and storage proposition
7. Confirmation on the concentration of PM 2.5, PM 10 and Noise level within the campus and adjacent roads just outside the campus as the values shown are much lower than that in an industrial environment where there is usage of heavy machineries, furnaces etc.
8. Details of occupational health and safety impacts

9. Impact potential of dominant activities of the expansion project on significant environmental aspects of the impact zone, particularly within the zone of 500m from the periphery of the site preferably in quantitative terms or in qualitative terms
10. Detailed budget estimate for EMP (Non-Recurring and Recurring) including for environmental monitoring
11. Detailed CER proposal as envisaged as per the OM dated 30.09.2020 of MoEF & CC based on stakeholder consultation, proof of stakeholder consultation and adequate budgetary provision
12. Details of alternatives examined with respect to Technology
13. Incorporate details pertaining to various aspects under ToR- 6, Environmental Monitoring Program
14. Details of Maximum Credible Accident Assessment carried out
15. Isoleth map of air pollutants indicating air pollutant dispersion
16. Heat index of the different stages of the plant.
17. Proposal for reducing the increased ambient atmospheric temperature during the production process

**2. SIA/KL/INFRA2/407333/2022; 1993/EC3/2022/SEIAA**

**Application for the project Valley View Apartments, M/s NBCC (I) Ltd at block No. 39, Resurvey No.93/9, village Puthencruz, Ward No.-II, Taluk Kunnathunad, Kochi Ernakulam, Kerala (Field inspection Report Received)**

**Decision:** The committee discussed the field inspection report conducted on 31-3-2023 and observed that the building permit is dated 12.04.2010 and the ToR is issued on 03.11.2022. The project proponent has submitted the EIA Report with other documents necessary for consideration of the project under violation category. During field visit it is observed the following:

1. The construction was done for built-up area of 31307m<sup>2</sup> without obtaining prior EC. The construction was started in April 2015 and terminated in February 2018. Though a major part of the construction is completed, none of the dwelling units are occupied.
2. Rainwater harvesting is proposed but the capacity of the storage tank is not provided. It is only mentioned that “the storage capacity needed should be calculated to take into consideration the length of any dry spells, the amount of rainfall, and the per capita water consumption rate”.
3. CER Plan is not provided. It is only mentioned that Rs. 25 lakh is allocated to nearby Government School for Infrastructure development and Rs 15 lakhs for Free Health Checkup at nearby Dispensary for the Economically weaker section/ underprivileged section (total CER commitment is Rs 40 lakhs). The CER commitments are found to be inadequate. While issuing the ToR, SEIAA had specifically asked to assess the

“feasibility of CER for the comprehensive development of the poor”. Such an assessment was not found in the EIA report.

4. The total power requirement is 1785kW. Out of this, only 18kW (1% of the total power requirement) is solar power. This is below the minimum solar energy installation requirements as per KMBR (minimum 50% of the roof area; area required to install 1 kWp solar plant is 7 sq.m).
5. While recommending ToR, SEIAA had specifically asked to include the overland flow management and drainage arrangements. However, the drainage arrangements and overland flow management specific to the project site has not been provided in the EIA report.
6. The 118<sup>th</sup> meeting of SEIAA had directed the proponent to undertake damage assessment, remediation plan and natural resources and community augmentation plan along with EIA and EMP as the project is a violation case. A total of Rs 88.4 lakhs has been earmarked for remediation, Natural Resource & Community Resource Augmentation. Penalty for violation @ 1% of the project cost calculated based on SOP dated 7-7-2021 is Rs 87.90 lakhs.
7. Under the remediation plan, the proponent has earmarked Rs 67 lakh for various activities such as i) Plantation in nearby on Chitrapuzha Ponjassery road and Canal Road, ii) two health checkup camps in Ambalamedu, iii) distribution of 2000 bio-bins in select wards of Kochi municipal corporation, iv) project for reusing used cloth and wood pieces to make dolls jointly with St. Teresa’s college, Ernakulam, v) distribution of personnel protection equipment to the construction workers in nearby areas, vi) Awareness program for Noise in Ambalamedu Town and Karimugal Village, vii) Cleaning and regular maintenance of Ambalamedu Lake and viii) Beautification of Ambalamedu Lake. The desirability and feasibility of some of the activities included in the remediation plan is doubtful. The proponent has mentioned that they will collaborate with other agencies to undertake these activities. It is not clear from the details submitted whether these agencies are willing to cooperate with the proponent.
8. An amount of Rs 21.4 Lakh has been earmarked for Natural Resource & Community Resource Augmentation Plan. The activity proposed under ‘Natural Resource Augmentation’ is the provision of 6 Solar Lights in Ambalamedu Town and Govt. UP School Puttumanoor, Puthenkurish at a cost of Rs 6 Lakh. Under Community Resource Augmentation Plan (Rs 15.4 Lakh), the following activities are proposed: i) Providing 12 Computers in the Govt. UP School Puttumanoor, Puthenkurish ii) Rs 10 Lakh will be allocated for the welfare of Karimugal Village. The necessary details of how the funds allocated for the welfare of Kairmugal village is not provided.

**Based on discussions, the Committee directed the proponent to submit the following additional documents:**

1. Details regarding the rainwater harvesting facility including the capacity of the water tank shall be provided.
2. Provide CER Plan considering the direction of the SEIAA while issuing ToR and after undertaking a proper assessment of the community needs with measurable year-wise physical targets for CER activities. Include CER Plan in the EMP.
3. Provide a plan to ensure the availability of solar energy installation as per KMBR requirements
4. Provide site specific overland flow management and drainage arrangements.
5. Modify the Remediation Plan, Natural and Community Resource Augmentation Plan after considering the desirability and feasibility of the activities in the local context. In the case of interventions for which the proponent collaborates with other agencies, the demand or consent from the agencies is to be provided.

**3. SIA/KL/INFRA2/407611/2022; 2147/EC3/2022/SEIAA**

**Environmental Clearance for the proposed Residential project 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 (Presentation)**

**Decision:** As invited, the Proponent, Sri. Bijoy A B, General Manager (Project & Planning), M/s Veegaland Developers Pvt. Ltd, and the consultant, Sri. P.Z. Thomas, M/s Environmental Engineers & Consultants Pvt. Ltd. were present. The Consultant made the presentation. The Committee heard the presentation and as per the presentation, the total built-up area is 33,231.71 m<sup>2</sup> and the total cost of the project is Rs. 678100 Lakh and there are 141 apartments. The total Land/plot area is 7893 m<sup>2</sup> and FAR proposed is 23963.37(3.036). **The Committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar for field inspection and report.**

**4. SIA/KL/INFRA2/416978/2023, 2230/EC6/2023/SEIAA**

**Environmental Clearance for the proposed construction of Super Specialty Hospital Block and Mother & Child Hospital Block within the existing campus of Govt. Medical College, Thrissur at Sy.No.4, 11 & Others by Department of Health & Family Welfare, Govt. of Kerala (Presentation)**

**Decision:** As invited, the authorized person, Sri. Diyon M J, Senior Clerk (HG), Govt. Medical College, Thrissur with an authorization letter from project proponent, Sri. Shajan S, General Manager, INKEL and the consultant, Sri. P Z Thomas, M/s Environmental Engineers & Consultants Pvt. Ltd. were present. The Consultant made the presentation. The committee heard the presentation and **decided to entrust Smt. Beena Govindan & Sri Sheik Hyder Hussain for field inspection report.**

**5. SIA/KL/MIN/133614/2019; 1842/EC6/2020/SEIAA**

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

**Decision:** As invited, the Proponent, Sri. Babu N.P, Managing Partner, M/s. Grand Rock Products, and the RQP, Sri. Balaraman were present. The RQP made the presentation. The committee heard the presentation and as per the presentation, the mineable reserve is 2,50,658 MT for the mine life of 5 years. The project cost is 80 lakh and the highest elevation of the permit area is 102 m MSL and the lowest is 68 m MSL. The Peechi Vazhani wildlife sanctuary is situated at 6.1KM. The depth to water table is 8m below ground level and 47m AMSL. The ultimate mine depth 45m above MSL. The OB dump site proposed is at an elevated area. The area proposed for afforestation is a rocky area. **Hence committee decided to direct the proponent to submit the following additional documents:**

1. Recent Cluster Certificate.
2. Details of alternate area for compensatory afforestation as the one proposed is partially rocky and partially vegetated in nature as presented.
3. Compensatory afforestation plan along with coordinates of the proposed site, geo-tagged photographs of the site, ownership details of the site
4. The recent environmental quality data from a NABL-accredited lab
5. The OB dump site proposed is between BP 1 & BP2 which is comparatively an elevated portion. So alternate site is to be proposed and provide the geo-tagged photographs of the site.
6. Proof of consultation with the beneficiary for CER proposal.
7. The proof of application submitted to SCNBWL for Wildlife Clearance, if any.
8. Letter from the WL Warden stating the distance of the proposed area from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and whether the site falls in the buffer zone or not.

**6. SIA/KL/MIN/136571/2020; 1745/EC2/2020/SEIAA**

**Environmental Clearance for the Proposed Granite Building Stone Quarry of M/s Hastone Granites Pvt. Ltd, for an extent of 0.9986 Ha.at Survey No. 112/11A3Pt in Balal Village, Vellarikund Taluk, Kasaragod, Kerala (Field inspection Report Received)**

**Decision:** The Committee discussed the field inspection conducted on 02.01.2023 and noted that that mineable reserve is 41635MT (47211.6MT) the mine life is 3 years. More than 50% of the area is in medium hazard zone. The nearest built structure is at 189.6m. The Committee observed the following:

- a. An abandoned quarry with about 50m vertical face is located at the central part of the proposed project area.
- b. Land is under healthy rubber plantation surrounding the abandoned quarry pit.
- c. Soil thickness is thin to moderate. Slope is moderate to steep.
- d. Approach road is undeveloped.
- e. Site falls in Moderate Hazard Zone dominantly

The Committee noted the requirement of the following additional documents:

- a. Legible Certified survey map.
- b. Depth to water table in the nearest dug well along with relief of ground level, distance to the project boundary and geo-tagged photographs of the well.
- c. Plan for haulage road development.
- d. Modified drainage plan showing the connectivity to the natural drainage.
- e. Specific CER with details of beneficiary consultation

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

**7. SIA/KL/MIN/204626/2021; 1351/EC2/2019/SEIAA**

**Environmental Clearance for the Building Stone quarry of Smt. K. Malathy for an area of 3.9800 Ha at Sy. No. 253/14, 266/1 & 266/2 in Cherukave village Kondaty Taluk, Malappuram (Refer Back from SEIAA)**

**Decision:** The committee noted the decision of the 125<sup>th</sup> SEIAA meeting and examined the file, and verified the EIA document and public hearing proceedings. Accordingly, it is observed that all the complaints during the public hearing are found addressed in the EIA report. **Hence the committee decided to adhere to its earlier decision.**

**8. SIA/KL/MIN/204850/2021; 1352/EC2/2019/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry of Sri. Jayaprakash K for an area of 4.4462 Ha at Sy. No. 253/14 & 266/2 of Cherukavu Village, Kondaty Taluk, Malappuram (Refer Back from SEIAA)**

**Decision:** The committee noted the decision of the 125<sup>th</sup> SEIAA meeting and examined the file, and verified the EIA document and public hearing proceedings. Accordingly, it is observed that all the complaints during the public hearing are found addressed in the EIA report. **Hence the committee decided to adhere to its earlier decision.**

**9. 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 (Presentation)**

**Decision:** Even after prior intimation the project proponent was absent. Hence the committee decided to defer the item to give one more chance to the proponent for presenting the project.

**10. SIA/KL/MIN/229494/2021; 2029/EC6/2022/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry of Sri. Jimmy Jose, for an area of 0.9950 Ha at Sy. No. 318/2/2, 318/2/3 in Venganellur Village, Thalappilly Taluk of Thrissur (FIR Received) (Show cause notice by Mining & Geology Department)**

**Decision:** The Committee examined the proposal and discussed the field inspection report conducted on 29-03-2023. The Committee observed the requirement of additional documents for further consideration. The distance from Peechi-Vazhani Wildlife Sanctuary is at 6.9 km. As per the Biodiversity Assessment Report there were 108 trees in the buffer zone. During field inspection, none of these trees were available except some coppice growth. The Proponent has removed all the vegetation and cleared the site. The Committee observed that there is a complaint stating that the project land comes under the 'plantation' category. But Non-Assignment Certificate submitted is stating that the land is not assigned for any specific purpose. However, a letter dated 28.04.23 from the District Collector, Thrissur addressed to Administrator, SEIAA intimated that the quarrying can't be permitted in the land since the proposed area is assigned for rubber plantation as per the KLR Act 1963. The Committee also noted that as per the Circular No. REV-A2/18/2022-REV dated 06.10.2022 which mention the following:

1. The assigned land should be used only for cultivation or house cites beneficial enjoyment of adjoining lands or for other specific and special purposes, under the KLA Act 1960 and the Rules framed thereunder, such as the KLA rules 1964, the Special Rules for Assignment of Government Lands for Rubber Cultivation 1960 and the Arable Forest Land Assignment Rules 1970.
2. If any of the violations like mining, quarrying, construction activities etc, are noticed on the assigned land, Tahsildar/District Collector should take necessary action to stop such activities and resume the land as per the provisions of the KLA Act 1960 and the rules framed thereunder.
3. The Circular is issued to uphold the common judgment dated 25.5.2022 in WP(C) Nos. 11249/2010 and connected cases of the Hon'ble High Court of Kerala in letter and spirit.

**Therefore, the Committee decided to recommend rejection of the proposal.**

**11. SIA/KL/MIN/267357/2022; 2034/EC3/2022/SEIAA**

**Environment Clearance for mining project of M/s Perumannoor Granites Private Limited for 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 (Cluster Certificate received)**

**Decision:** The Committee examined the Cluster Certificate from Mining and Geology Department dated 04.04.2023 and observed that even though the period of the quarrying leases are expired and the quarries are reported as 'not functional', none of them have submitted mine closure plan for approval and closed accordingly. The Thattekkad Bird (ESZ) sanctuary is situated at 1.74 Kms from the project area. **The Committee decided to intimate SEIAA to direct the project proponent to submit the ToR application.**

**12. SIA/KL/MIN/273789/2022; 2117/EC2/2022/SEIAA**

**Environmental Clearance for Laterite building stone quarry of Mr. Saburaj E. G. for an extent of 0.0971 Ha at Survey No- 246/1PT401 in Kinanur Village, Vellarikkund Taluk, Kasaragod, Kerala (Presentation)**

**Decision:** As invited, the project proponent, Sri. Saburaj E. G, and RQP Sri. Mahammed Kunhi was present. The RQP made the presentation. The Committee found that as per the presentation, the targeted production is 4135 MT and life of mine is 1 year. The total project cost is 15 Lakh. Based on discussions, **the Committee decided to recommend EC for the life of mine of one year subject to the following Specific Conditions in addition to General Conditions:**

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

11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented as per norms
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).

**13. SIA/KL/MIN/278677/2022; 2100/EC1/2022/SEIAA**

**Environment Clearance for 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 District, Kerala (Presentation)**

**Decision:** As invited, the project proponent, Sri. Vinod S, and RQP Sri. V K Roy were present. The RQP made the presentation. The Committee found that as per the presentation, the mineable reserve is 1,51,350 MT (44,400MTA) for mine life of 4 years. The highest and lowest elevation is 148m & 121m above MSL respectively. The depth to water table is 8m below ground level and the ground relief is 100m above MSL. The ultimate mine depth is 105m AMSL. The project cost is Rs. 1.43 crores. The proposed area falls in a low hazard zone. There are no buildings within 100m from the project boundary as inferred from the google imagery. However, it has to be confirmed with a certified survey map. There is an abandoned pit in the N –W side of the project area. **The Committee decided to direct the proponent to submit the following additional documents:**

1. Proposal for Compensatory Afforestation Plan along with geo-coordinates of the proposed site, geo-tagged photographs of the proposed sites, and ownership details of the proposed site with proof.
2. Revised CER as per OM dated 30.09.2020 of MoEF & CC incorporating monitorable physical targets evolved based on stakeholder consultation, proof of stakeholder consultation and adequate budgetary provision for the entire life of mine.
3. Protection plan for the abandoned pit on the NW side.
4. Recent and legible survey map certified by the Revenue Officials indicating distance to all the built structures within 200 m distance from the project boundary

**14. SIA/KL/MIN/279495/2022; 2115/EC3/2022/SEIAA**

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

**Decision:** As invited, the project proponent, Sri. E M Madhu, and Sri. Thambu Cheriyan, RQP with authorization letter were present. The RQP made the presentation. The Committee found that as per the presentation, the mineable reserve is 1,47,290.00MT (29,458 MTA). The life of mine is 5 years. The Idukki Wildlife Sanctuary is at 12.58 Kms. The project cost is 314.10 Lakh. The highest elevation is 110m above MSL and the lowest elevation is 75 m above MSL. The High Hazard Zone is 440 m and Medium Hazard Zone is 110 m away from the proposed mining area. **The committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar field inspection and report.**

**15. 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, at Block No:29, Re-Survey Nos: 34/4, 34/5 in Kavassery -I Village, Alathur Taluk, Palakkad, Kerala (Presentation)**

**Decision:** As invited, the project proponent, Sri. Ashwin K J, and RQP Sri. V K Roy were present. The RQP made the presentation. The Committee noted that, as per the presentation, the depth to water table is 20m below the ground level. The Chulannur Peafowl Sanctuary is situated at 9.10km. The highest and lowest elevations are 90m & 75m respectively. The revised project cost is 2.17crores. Life of mine is 12 years and the depth to water table is 20m bgl. There is requirement of a Letter from the WL Warden stating the distance of the proposed site from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and statement whether the site falls in the buffer zone of the WLS or not. The PP has also not submitted proof of application for Wildlife Clearance to SCNBWL. **The committee decided to entrust Dr. K Vasudevan Pillai and Dr. K N Krishnakumar for field inspection report.**

**16. 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 (Presentation)**

**Decision:** As invited, the project proponent, Sri. Roby P K, and the RQP, Sri. V K Roy, were present. The consultant made the presentation. The committee heard the presentation and as per the presentation the targeted production of mine is 3,25,662.5 MT. The mine life is 5 years. The highest and lowest elevation is 76m & 52m above MSL. The revised project cost is 147.5 Lakh. The nearest built structure is 54m (House of Land owner). The Thattekad Bird Sanctuary is at 19 Km-NE. The Medium Hazard Zone and High Hazard Zone is at 17 Km and 21.98 Km

respectively. **The Committee decided to direct the proponent to submit the following additional documents:**

1. Compensatory afforestation plan along with geo-coordinates of the proposed site, geotagged photographs of the proposed site and the ownership details and consent of the proposed land
2. Site plan for the storage of OB and its protection measures
3. Depth to water table in the nearest dug well with geotagged photographs of the well and distance from the project boundary.
4. Pre-mining land use details.
5. Legible survey map certified by the Village Officer indicating built structures including houses and other buildings and infrastructure within 200m radius of the boundary of the proposed site.

**17. 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 (Presentation)**

**Decision:** As invited, the Proponent, Sri. Kurian Jose, and the consultant, Sri. P.Z. Thomas, M/s Environmental Engineers & Consultants Pvt. Ltd. were present. The Consultant made the presentation. The Committee heard the presentation and as per the presentation, the total mineable reserve is 25,11,088 MT (2,40,000 TPA) and Mine life is 12 years. The project cost is 7.03Crore. Thattekad Bird Sanctuary is located at 8.40 Kms and the ESZ is located at 7.69 Kms from the periphery of the proposed area as certified by DFO Malayattoor Division vide A2-3472/23 dated 20.04.2023 and hence outside the ESZ. The Moderate Hazard Zone is about at 8.11 km in South East direction. The depth to water table is 31.8m above MSL and the ultimate mine depth is 35m above MSL. The bed level in the adjacent stream is reported as 55m above MSL. The Field verification was conducted on 29.12.2022. **The Committee decided to direct the proponent to submit the following additional documents:**

1. Revised CER as per the norms incorporating monitorable physical targets decided based on stakeholder consultation, proof of stakeholder consultation and detailed implementation plan of the proposals. While preparing the CER proposal, the pond in the proposed area may be considered as the primary source and as and proposed bore well/ open well may be considered as secondary source to ensure availability of water for the project area.
2. Recent Letter from the WL Warden stating the distance of the proposed area from the boundary of the WLS, width of the proposed/approved ESZ around the WLS and statement whether the site falls in the buffer zone or not.
3. Proof of application submitted for wildlife clearance from the NBWL

**18. SIA/KL/MIN/36040/2019; 1374/EC2/2019/SEIAA**

**Granite Building Stone Quarry of M/s. Pala Metals and Sands Pvt Ltd, over an extent of 9.6560 Ha.(23.8599Acres) at Re – Survey Block No.34, Re -Sy.No. 126/1, 128/1, 128/1-1, 128/2, 128/3,128/3- 1, 128/3-2, 128/4, 129/4, 126/2, 126/5, 127/2, 132/8,129/1, 129/1-1, 129/2, & 129/3 in Bharananganam Village, Meenachil Taluk, Kottayam, Kerala (Field Inspection Report received)**

**Decision:** The Committee discussed the field inspection report conducted on 05.03.2023 and noted that the mineable reserve is 67,46,602MT and the mine life is 15 years. The depth to water table is 39m above MSL and the average water level within the 10 km radius is 64m above MSL at 140m away from the site. The Idukki Wildlife Sanctuary is at 18.91 km. The Committee observed the following Compliance to additional ToR;

Cumulative impact assessment considering carrying capacity of the cluster	<b>Not complied</b> It was suggested to carry out a cumulative impact assessment of the cluster considering its carrying capacity. This required the assessment of the supportive capacity of resources of the cluster and assimilative capacity of environment based on which a cumulative assessment of impacts of all activities within the cluster specifically. This has not been done. Instead, the PP carried out a study incorporating the load from a nearby quarry and the proposed quarry considering the additional ToR as “Cumulative impact assessment considering carrying transportation management plan”.
Impact on road traffic and provide a material transportation management plan	<b>Complied</b>
Geo-hydrological aspects and replenishment and recharge issues	<b>Partially complied</b>
Specific study of slope stability and hazard potential	<b>Not complied.</b> The minimum and the maximum slope angles in the entire area is 14 <sup>0</sup> to 33 <sup>0</sup> . Average slope angle in different sections varies from 17 <sup>0</sup> to 23 <sup>0</sup> . The value of Rock Mass Rating (RMR) of 82 indicates that the rock mass is in the “ Very Good Rock” category. The Slope Mass Rating (SMR) of 81.20 indicated that the slopes will

	be stable for long period after the excavation. <b>However, the hazard potential of the region is not assessed.</b>
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Based on the discussions, **the Committee directed the proponent to submit the following additional documents:**

1. Revise the EIA/EMP report incorporating the details of studies conducted as per the four additional specific ToR which are not complied with satisfactorily and recommendations based on it.
2. Overburden/Top soil storage plan including map showing the location including ge-coordinates proposed for storage of overburden/topsoil
3. Detailed drainage plan incorporating garland canal, silt traps, siltation ponds, outflow channel and connectivity to natural drain
4. Anticipated peak flow to be received by the natural drain and plan for enhancing its carrying capacity, if required.
5. Plan for protective measure between BP35-40
6. Detailed evaluation of the landslide history and potential of the impact zone
7. Evaluation of the landslide proneness of the area including the proposed site and zone encompassing 500m distance from the project boundary
8. Revisit the report dealing with ToR 27 and suggest specific safeguard measures as applicable in the field condition. The EIA report stated that “There is no seasonal nallah within the leasehold area. Hence, there will not be any impact by the project on the water quality. All mitigations measure for conversation for water environment is elaborated in EIA & EMP report.” This is found incorrect. One of the maps given in the geohydrological study showed that one primary stream originates just near the site and the confluence point with the tributary of Meenachil river is not far away. The soil characteristics of the proposed area, mine waste during the mining, slope of the region, surface and subsurface drainages, high rainfall intensity of the region etc. need detailed consideration while addressing this ToR.
9. Revisit the report dealing with ToR 31 and provide specific plan as envisaged in the ToR along with the geocoordinates of the proposed site for compensatory afforestation, geo-tagged photographs, land ownership details considering that the green belt and compensatory afforestation have to be done upfront.
10. Revisit ToR 35 and provide detailed plan of action as the details provided in the report as well as the proposal are inadequate.
11. Revisit the report dealing with ToR 37 and provide specific findings and proposals as envisaged in the terms of reference
12. Modified CER proposal with monitorable physical targets evolved based on stakeholder consultation, beneficiary details and their detailed implementation and maintenance plan for completing the implementation during the first two years and maintaining during the

rest of the life of mine. If the proposal includes providing financial support to the Grama Panchayath for LIFE scheme, the details of the beneficiary, location details of the proposed site etc. for future monitoring purpose should be included.

13. Photographs showing the properly fixed boundary pillars
14. A recent legible certified survey map from the Village Office showing all the built structures including houses within the distance of 200m from the project boundary
15. Proposed plan for rainwater harvesting along with details of proposed location, quantity and usage
16. Detailed plan for the management of rock boulders
17. Actual source of water from where tanker supply is planned with its sustainability characteristics
18. Revised PFR based on the details of District Survey Report
19. Site specific risk assessment study and mitigation plan
20. Copy of non-assignment certificate
21. Depth to water table in the nearest dug wells
22. Map of the proposed site overlaid on the lineament map of the region
23. Revise the EIA/EMP report incorporating specific and detailed response to the observations and submissions by the Public during the Public Consultation along with pertinent facts and data
24. Revise the EIA/EMP report incorporating specific impacts identified due to various activities of the project on different environmental aspects of the region along with its nature and potential and proposed mitigation measures for each of the impact
25. Revisit the EIA/EMP report and correct the legends appropriately.
26. Detailed plan containing measures for energy conservation
27. Detailed plan for sanitation and waste management measures proposed

**19. SIA/KL/MIN/407128/2022; 2154/EC3/2022/SEIAA**

**Environmental Clearance – Building Stone Quarry project of Nissamudeen K S for an Area of 3.1424 Ha at Sy. No. 568/2-2, 569/1-4, 569/1-2, 1-3, 1-5, 1-6 in Thirumarady Village, Muvattupuzha Taluk, Ernakulam District, Kerala (Presentation)**

**Decision:** As invited, the project proponent, Sri. Nissamudeen K S, and RQP Sri. Balaraman were present. The RQP made the presentation. The Committee noted that as per the presentation, the mining plan is not well conceived thereby it leads to loss of significant quantity of resource and also enhances the environmental fragility. There is a quarry adjacent to the proposed site owned by the proponent and the proposal for extension for the same was delisted due to non-submission Certified Compliance Report. Therefore, **the Committee decided the following:**

- 1. Direct the proponent to submit revised mining plan considering the above observations.**

2. **Notify the SEIAA that the proponent seems to have violated the EC conditions as inferred from the satellite imagery.**
3. **Certified Compliance Report of the adjacent quarry owned by the same proponent**

**20. 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 at Block No. 28, Survey Nos. 496/2, 496/2-1, 496/3, 496/4, 496/14, 497/4-1-1 in Mallappally Village, Mallappally Taluk in Pathanamthitta, Kerala (Presentation)**

**Decision:** As invited, the project proponent, Sri. Thomas Varghese, and RQP Sri. V K Roy were present. The RQP made the presentation. The Committee noted that as per the presentation, the average production of mine will be 80,030 MTA for first to third years and 51,410 MTA for fourth year. The project cost is 1 crore. The life of mine is 4 years. Based on discussions, **the Committee decided to direct the proponent to submit the following additional documents:**

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. Revised EMP with site-specific plans with appropriate budgetary provisions.
4. Mining plan is not found legible and therefore a legible mining plan need to be provided
5. Compensatory afforestation plan incorporating the species of trees proposed to be planted, geo-coordinates of the proposed site, geo-tagged photographs of the proposed site, proof of ownership of proposed land

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

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

**Decision:** As invited, the project proponent, Sri. Najeem A, and RQP Sri. V K Roy were present. The RQP made the presentation. The Committee found that as per the presentation, 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 highest and lowest elevations are 125m & 90m respectively. The field inspection has been completed. **The committee decided to direct the proponent to submit the following additional documents:**

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), geotagged photographs of the proposed site, consent letter from the owner of the site (individuals /schools/colleges/panchayath)

4. Geotagged photos of concrete Boundary pillars fixed with concrete
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. Plan for the removal of boulders

**22. SIA/KL/MIN/46597/2019; 1575/EC3/2019/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Muhammed Ibrahim Palakkan, M/s Rox Silicon Private Limited for an area of 4.5090 Ha at Sy. No. 1065 & 1065 pt in Melmuri Village, Malappuram Municipality, Ernad Taluk, Malappuram**

**Decision:** The Committee examined the evaluation report and noted the short comings (Annexure) and also EIA report is to be revised. **In the meanwhile, Committee decided to entrust Dr. R Ajayakumar Varma & Sri. Sheik Hyder Hussan for field inspection and report.**

**23. SIA/KL/MIN/72018/2019; 1470/EC3/2019/SEIAA**

**Granite/building stone quarry mining project of Shri. P.V Santhosh for an area 4.7668 Ha 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 District, Kerala. (ToR Approved proposal) – (Presentation)**

**Decision:** The proponent Sri. P V Santhosh intimated that he was unable to attend the presentation. **Hence the committee decided to defer the proposal and give one more chance to the proponent.**

**24. SIA/KL/MIN/75334/2020, 1820/EC6/2020/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry project of Sri. Kunhi Muhammed for an area of 0.8939 Ha at Sy.No.1065 in Melmuri Village, Ernad Taluk, Malappuram (Evaluation Report Received)**

**Decision:** The committee discussed the evaluation report and observed the following shortcomings;

1. Environmental characteristics of the residual hill on which the project site is located.
2. The sampling points are not shown in the impact zone map
1. Measurement units are not mentioned for certain results inferred
2. The sources of secondary data are not given
3. The water requirement is given as 2 KLD which is too low for containing pollution, nurturing plants and providing drinking water and sanitation requirements of the project.
4. The sustainable yield characteristics of the open well from where water is proposed to be drawn is not given
5. The source and its sustainable yield characteristics are not given from where tanker supply is proposed to be sourced
6. The depth to water table given in the application and EIA report are different.
7. Site is very close to a Moderate Hazard Zone and is located on the side slope of a residual hill of elevation up to 347m. But the site-specific land fragility analysis is not done.
8. There are many quarries and crushers operational in the upstream and downstream portion of the proposed site. No details of such quarries and crushers are given in the report.
9. Comprehensive impact of the operation of various quarries and crushers and also the transportation from these sources are not given.
10. Transportation details or traffic plan proposed are not given
11. The site is in the proximity of urban sprawl and there are no specific details regarding socio-economic environment of the immediate vicinity of the site and its impact zone.
12. Impact identification, impact potential and impact evaluation are not found done for the proposed activities of the project on the prominent environmental aspects of the region.

**The Committee decided to direct the proponent to revise the EIA report by including the above corrections/ documents. In the meanwhile, the Committee decided to entrust Dr. R Ajayakumar Varma & Sri. Sheik Hyder Hussain for field inspection and report.**

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

1. SIA/KL/MIN/165825/2020    646/EC4/4949/2014/SEIAA

**Environmental Clearance for the quarry project in Sy. No. 78/2A Pt at Kumaranellur Village, Karassery Panchayath, Kozhikode Taluk, Kozhikode, Kerala by Sri. Habeebu Rahiman P.M. (Judgment in WP(C) No.12391/2020 filed by Sri. Habeebu Rahiman P.M, Kozhikode - regarding the validity of EC). (Fresh file [old Physical file])**

**Decision:** The Committee verified the proposal for extension of validity of environmental clearance and examined the documents submitted by the proponent. The Committee noted that the PP has submitted the Monitoring Report from the IRO, MoEF & CC, Bangalore. Based on discussions, **the committee decided to direct the proponent to submit the following additional documents:**

1. The Sy Number given in the EC, Mining Plan and Lease agreement is 78/2A. But the Non-Assignment Certificate, Possession Certificate etc. submitted as proof of land ownership indicates Sy Nos as 78/2353, 78/112, 78/111, 78/106, 78/109. Therefore, the Proponent is directed to submit clarification regarding the Survey Numbers recorded in EC order and Mining Plan and that in Possession Certificate and Non-Assignment Certificate.
2. The Proponent has not corrected the height and width of the benches and the slope is more than 45 degree in the quarry at place. Therefore, the Proponent is directed to submit a plan for providing benches of appropriate heights and achieving slope less than 45 degree.
3. The overburden thickness at places in the top portion of the project site is high. Therefore, the Proponent is directed to submit a detailed plan, preferably bio-engineering plan to avoid land collapse in such locations.
4. The Proponent is holding another EC (File No. 130/SEIAA/KL/2437/2013; SIA/KL/MIN/268719/2022) for a building stone quarry project named Profile Granites in the same Survey No. 78/2A. The google map showing both the site separated by a distance of about 400m as shown in the photographs attached to the FIR. In order to assist the evaluation of the cumulative environmental impact, the proponent is directed to submit a KML file showing both the quarries for which he holds EC.
5. There are other quarries in the vicinity and hence the project proponent is directed to submit a map of the area within 500m radius of the proposed quarry showing all the abandoned and functional quarries and all other built structures including houses, crushers, roads, high tension lines and all other built structures.
6. A recent Cluster certificate is not found uploaded. Therefore, the Proponent is directed to submit a recent Cluster Certificate from the Mining & Geology Department.
7. A recent survey map is not found uploaded. Therefore, the Proponent is directed to submit a recently certified Survey Map from the Village Office showing all the built structures within 200m

8. Environmental quality data submitted along with the application is old and therefore, the Proponent is directed to submit recently monitored environmental quality data.
9. Revised CER in consultation with stakeholders incorporating monitorable targets as per the Office Memorandum of the MoEF & CC.
10. The garland canal along with intermittent silt traps are provided only partially. Since the over burden thickness is high at places, maintenance of drainage assumes significance. Therefore, the Proponent is directed to submit a detailed drainage plan considering the entire quarry area incorporating garland canal, silt traps, siltation pond, out flow channel connecting to a natural drain with adequate carrying capacity

**2. 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 [WP(C) No. 6024/2023, filed by Sri. K.M. Joy (Project Proponent), M/s JB Granites, Kachappily House, Puliyanam P.O., Angamaly, Ernakulam] (Presentation)**

**Decision:** As invited, the Proponent, Sri. K.M. Joy, Managing Partner, M/s J.B. Granites and the RQP, Sri. Thangaraj were present. The RQP made the presentation. The Committee heard the presentation and observed that the Environmental Clearance issued on 15.02.2017, was set aside by the Hon'ble High Court of Kerala vide judgment dated 24.01.2018. Therefore, the project do not have a valid EC and therefore, the Committee cannot consider the application for extension of EC.

**3. 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 District, Kerala. (Presentation)**

**Decision:** The Committee examined the proposal submitted by Nishad. As invited, the Proponent, Sri. Nishad P V, and RQP, Dr. Nazar Ahmmed were present. The RQP made the presentation. The Committee heard the presentation. As per the presentation, the total mineable reserve is 454426 MT (85000 MTA) and the mine life is 6 years as per revised scheme of mine. The Kadungodkunnun reserve forest is at 6.7 Km and Kadanchirakkunnun reserve forest is at 7.9 Km. The highest and lowest elevations are 85m MSL and 17.42m above MSL respectively. The depth to water table is 8m below ground level where the relief of the ground is 33m MSL. The ultimate mine depth is 40m above MSL. The project cost is 2.25 crores. The PP has submitted Certified Compliance Report dated 23.12.2022 from the IRO, MoEF & CC, Bangalore During presentation it is also intimated that the Mining and Geology Department has issued transit pass as per the direction of the Hon,ble Court and hence the quarry is working even after the expiry of

EC (Court considered S ON. 1807 of MoEFCC dated 12.04.2022). The Committee decided that the following additional documents are required for further processing of the application:

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 measured in the nearest dug well along with the geotagged photographs of the well and ground relief of the site where well is located.
3. Revised CER based on need study with appropriate physical targets in consultation with stakeholders as per norms along with proof of stakeholder consultation
4. Site specific EMP incorporating appropriate budget provision.
5. Biodiversity status report of the area.
6. Scheme of mining
7. Non assignment certificate for the proposed area.
8. Compensatory Afforestation Plan along with geo-coordinates of the proposed site, geo-tagged photographs of the proposed sites, and ownership details of the proposed site with proof.

**The committee also decided to entrust Dr. K Vasudevan Pillai and Dr. K N Krishnakumar for field inspection report and compliance status of the conditions of the earlier EC.**

### **PART 2 – Additional Documents Received**

- 1. SIA/KL/INFRA2/404656/2022, 2140/EC1/2022/SEIAA  
Environmental Clearance for the Proposed City Side Developmental Project at Pettah Village, Thiruvananthapuram Municipal Corporation, Taluk & District, Kerala to be developed by M/s Adani Airport Holdings Limited.**

**Decision:** The Committee examined the additional documents submitted by the proponent and found them satisfactory except details on vehicle parking and CER. **The committee decided to direct the proponent to submit the following additional documents:**

1. Clarification on how the proponent is going to provide the provision for parking as per KMBR & the loss of the present vehicle parking area and provisions.
  2. Revised CER with proof of stakeholder consultation
- 2. SIA/KL/MIN/134486/2020, 1790/EC4/2020/SEIAA  
Environmental Clearance for the Granite Building Stone Quarry of Sri. Shamseer.V.K, at Re Survey No. 2/18, 2/20, 2/46, 2/76, 2/77, 2/78 in Raroth Village, Thamarassery Taluk, Kozhikode District.**

**Decision:** The Committee observed that the proposal is to extract granite building stone of 251850 MT (50300 TPA) with Mine life of 5 years. The nearest house is at 110.9 m and depth to water table is 15-18 meter below the ground level (30m above MSL) of the proposed site. The presentation was done in the 122<sup>nd</sup> meeting and field inspection was conducted on 04.09.2022. Based on discussions, the **Committee decided to recommend EC for a mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Development of green belt should be initiated prior to the commencement of mining using indigenous species.
2. The impact of vibration due to blasting on the houses and other built structures within 500m distance from the project boundary should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
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. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
12. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
13. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

### **3. 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 and verified the documents submitted by the proponent. 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. The adjacent quarry is not closed by implementing approved mine closure plan. The survey map is not legible & without adequate details. **The committee decided to entrust Sri. V Gopinathan and Dr A N Manoharan for field inspection and report.**

**4. Environmental Clearance of the proposed Granite Building Stone Quarry of “Mr. Deepak Cheerothy” situated in Sy. Nos: 171/2-2, 171/4 at Karukutty Village Aluva Taluk, Ernkulam District, Kerala State. (SIA/KL/MIN/156655/2020, 1754/EC3/2020/SEIAA)**

**Decision:** The Committee observed that the proposal is to extract granite building stone of 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 as 69m above MSL, the ultimate mine depth has to be limited to 70m above MSL instead of 60m above MSL. The presentation was done on 122<sup>nd</sup> meeting and field inspection conducted on 7.1.2023. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. The ultimate mine depth should be limited to 70m above MSL instead of 60m above MSL
2. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
3. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
5. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration

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

**5. SIA/KL/MIN/162661/2020, 1748/EC1/2020/SEIAA**

**Environmental Clearance for the Proposed Granite (Building Stone) Quarry of Smt. Jayasree, M/S Saroj Realtors and Builders in Block No: 25 Re-Survey Nos. 191/1-3, 192/1-4, 192/1-3, 192/2, 193/20, 193/20-1, 180/4, 180/3-1, 180/3-2 in Perumkadavila Village, Neyyattinkara Taluk, Thiruvananthapuram, Kerala**

**Decision:** The Committee examined the proposal and verified the additional documents submitted by the proponent and found that they are satisfactory except the CER. While presenting the proposal in the 138<sup>th</sup> meeting, the CER proposed was to renovate 5 houses. Now the submitted proposal is for the renovation of only 3 houses. Therefore, the PP should submit the details of the rest of 2 houses. **The Committee decided to direct the proponent to submit the details of all the components of CER agreed to the SEAC earlier.**

6. **Building Stone Mine ( Quarry, Minor Mineral Mining) project of Mr. Rajan Thomas at Re-Survey Nos. 205/3, 205/5, 199/3, 199/8, 199/7, 199/7-1, 199/9, 199/6- 1, 198/1, 198/2, 197/1, 198/5, 198/5-6, 198/4, 207/1, 198/3, 206/2, 206, 206/4, 206/1, 206/3 of Kanjirappally Village & Panchayat, Kanjirappally Taluk, Kottayam, Kerala for an area of 4.9231 Ha. (SIA/KL/MIN/164009/2020, 1372/EC2/2019/SEIAA)**

**Decision: The Committee decided to entrust Dr. K N Krishnakumar for detailed scrutiny and evaluation of the additional documents and suggest specific recommendations.**

**7. SIA/KL/MIN/169289/2020, 1843/EC6/2020/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry of Sri. Sudheermon. P.P at Survey No:217/4, in Pulpatta Village, Eranad Taluk, Malappuram, Kerala**

**Decision:** The Committee observed that the proposal is to extract granite building stone of 222929.15MT (44585.83 MTA) and mine life is 5 years. The presentation was done in the 128<sup>th</sup> meeting and field inspection was conducted on 28.06.2022. The committee also noted that there is a complaint from RQP, Dr.Sakkir S.Pillai regarding the authenticity of Mining Plan. This may be verified with the District office of the Mining & Geology Department, Malappuram. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years subject to the outcome of the verification of the authenticity of the Mine Plan by the Mining & Geology Department, Malappuram. The Committee also decided to suggest the following Specific Conditions in addition to the General Conditions:**

1. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
2. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
4. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
6. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
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. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
12. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
13. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

**The EC may be issued only after the verification of the authenticity of the Mining Plan by the District office of the Mining & Geology Department, Malappuram.**

**8. SIA/KL/MIN/179645/2020, 1908/EC3/2021/SEIAA**

**Granite Building Stone Quarry of Smt. Sneha Jose " over an extent of 3.0876 Ha. at Re-Survey Block No: 46, Re-Sy. Nos. 132, 134/1, 134/2, 134/2-2, Kondoor Village, Meenachil Taluk, Kottayam District, Kerala**

**Decision:** The Committee examined the proposal and noted that the mineable reserve is 8,12,950 MT, the average annual production is 1,45,152 TPA and the Life of mine is 7 years. The ultimate depth of mine is 15m above MSL and depth to water table is 16.39 m above MSL. The highest and lowest elevations are 70 & 50m respectively. The presentation was done in the 138<sup>th</sup> meeting of the Committee. Now the Committee verified the documents and found them satisfactory. **The Committee decided to entrust Dr. Mahesh Mohan and Dr.K N Krishnakumar and field inspection and report.**

**9. SIA/KL/MIN/189134/2020, 1953/EC3/2022/SEIAA**

**Environmental Clearance for the building stone quarry at Re-Survey No. 10/1- 2, 10/1-3,10/9,Block No.16 of Mookkannoor Village, Aluva Taluk, Ernakulam, Kerala for an Area of 0.7694 Ha.**

**Decision:** The Committee examined the proposal to extract granite building stone of 170193 MT (34,039 TPA) with a Mine life is 5 years. The depth to water table is 13m bgl. The presentation was done in the 140<sup>th</sup> meeting of the SEAC and field inspection conducted on 16.11.2022. Based on discussions, **the Committee decided to recommend EC for a mine life of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Compulsory use of muffling arrangements during blasting in addition to NONEL blasting
2. Regulate blasting to a time fixed in consultation with the local population in the vicinity of the proposed site

3. Road should be widened to 7m width as per the plan submitted prior to the commencement of mining.
4. All the mitigation measures provided in the EMP should be implemented on priority.
5. Development of green belt using indigenous species should be initiated prior to the commencement of mining.
6. The impact of vibration due to blasting on the houses and built structures within 500m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay prior to the commencement of mining to ensure that there is no impact and the result should be displayed in front of the project entry gate.
7. The impact of vibration due to blasting on the houses and built structures within 500m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay should be monitored and the result included in the Half Yearly Compliance Report.
8. 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.
9. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
10. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
11. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
12. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
13. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
14. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
15. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
16. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
17. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
18. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

**10. SIA/KL/MIN/199564/2021, 1356/EC2/2019/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry project of Sri.C.K.Abdul Azeez, Managing Director, M/s Grand Stone Metals Pvt. Ltd. for an area of 4.9039 Ha at Survey No. 425 of Kannamangalam Village, Thirurangadi Taluk, Malappuram**

**Decision:** The Committee examined the proposal to extract granite building stone of 24,77,519 MT (1,00,000TPA) during the mine life of 25 years. The depth to water table is 10m bgl and the nearest house is at 305m SW. 76% of the proposed area falls in Medium Hazard Zone. The presentation was done on 131<sup>st</sup> meeting and field inspection conducted on 30.11.2022. Based on the discussion, **the Committee decided to recommend EC for a mine life of 25 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Almost 76% of the site falls in the Moderate Hazard Zone and as per the Kerala State Disaster Management Plan 2016, quarrying in Moderate hazard zone 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 be limited to 180m above MSL considering the depth to water table.
3. The impact of vibration due to blasting on all the built structures within 500m 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. Development of green belt using indigenous species should be initiated prior to the commencement of mining
5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
8. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
9. Overburden should be stored at the designed place at lower elevation and gabion wall should be provided for the topsoil and overburden storage sites
10. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).

12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement should be met from the solar power
14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
15. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road

**11. 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.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**12. SIA/KL/MIN/260249/2022 , 1976/EC1/2022/SEIAA  
Environmental Clearance for the Proposed Granite (Building Stone) Quarry of Sri.P. A. SAID MUHAMMED, Managing Partner, M/s KORIAN GRANITES in Re-Survey No. 201/1 in Keralassery Village, Ottappalam Taluk, Palakkad District, Kerala for an extent of 0.5684 Ha**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**13. SIA/KL/MIN/272889/2022 , 2144/EC1/2022/SEIAA  
Laterite building stone quarry of Shri. Jaya Krishnan in Re Survey No. 2/5,5/2 of Ongallur-1 village , Pattambi Taluk, Palakkad**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**14. SIA/KL/MIN/273506/2022, 310/SEIAA/KL/1693/2014  
Application for EC for Marath enterprises and Crusher Pvt. Ltd in Survey No. : 197/2(p), 198/8(p), 198/9(p) 198/2(p), 198/10(p) & 205/2(p) Koppam Village, Pattambi Taluk, Palakkad District, Kerala Judgment dated 26.08.2021 in WP ( C ) No.14476/2021 & judgment dated 22.08.2022 in WP(C ) No.25902 of 2022 filed by M/s Marath Enterprises and crushers Pvt. Ltd)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**15. 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 –**

**Decision:** The site is located adjacent to the quarry of Sri. Saji Abraham (SIA/KL/MIN/288750/2022; 2129/EC3/2022/SEIAA) and therefore, it shall also be considered to assess the cluster situation. **The committee deferred the item for detailed scrutiny in the next meeting.**

**16. 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-**

**Decision:** The site is located adjacent to the quarry of Sri. Saji Abraham (SIA/KL/MIN/288750/2022; 2129/EC3/2022/SEIAA) and therefore, it shall also be considered to assess the cluster situation. **The committee deferred the item for detailed scrutiny in the next meeting.**

**17. SIA/KL/MIN/400725/2022 , 2128/EC6/2022/SEIAA**

**Environmental Clearance for Laterite building Stone Quarry Project of Sri..Mohammed Shafi. E for an area of 0.8593 Ha at Re-Survey No- 449/2 in Vazhakkad Village, Kondotty Taluk, Malappuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**19. SIA/KL/MIN/403066/2022, 2163/EC3/2022/SEIAA**

**Environmental Clearance for the building stone quarry at Re Survey No. 300/1,300/2-1 Block no.41, of Thiruvaniyoor Village, Kunnathunadu Taluk, Ernakulam, Kerala for an Area of 0.9586 Ha of Sri. Saji K. Elias**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**20. SIA/KL/MIN/403254/2022, 2172/EC4/SEIAA/2022**

**Environmental Clearance for Laterite building stone quarry of Mr. George Joseph, over an extent of 0.1936 Ha, at Re-Survey No.143/61,63(143/1) in Perumanna Village, Kozhikode Taluk, Kozhikode District, Kerala, for an extent of 0.1936 Ha**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**21. SIA/KL/MIN/404158/2022, 2164/EC3/2022/SEIAA**

**Granite Building Stone Quarry of Sri. Bobby Kuriakose at Re-Sy Block No: 6, Re-Sy. Nos: 124/5-1-3, Kodikkulam Village, Thodupuzha Taluk, Idukki District, Kerala State**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**22. SIA/KL/MIN/405925/2022, 1527/EC1/2019/SEIAA**

**Granite building Stone Quarry of Shri. K M Stephen in Re-Sy. Block no. 37, Re-Sy. Nos. 399/2, 399/2-1, 399/2-2, 399/2-3, 399/3, 745/2, 745/3, 745/4, 745/5, 745/7, 745/8, 745/9, 745/10, 745/11, 745/12, 745/13, 745/14, 746/1, 746/2, 746/2-1, Karimannur Village, Thodupuzha Taluk, Idukki, Kerala**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**23. SIA/KL/MIN/407320/2022, 2171/EC4/2022/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry in Block No. 107, Re-Survey No: 86/2503 of Maniyoov Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.0972 Ha**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**24. SIA/KL/MIN/407637/2022 , 1747/EC1/2022/SEIAA**

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

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**25. SIA/KL/MIN/408064/2022 , 2182/EC6/2023/SEIAA**

**Environmental Clearance for Laterite building stone quarry of Sri. Muhammed Afsal. T for an area of 0.5579 Ha Re-Survey No-134/2-9, 134/2-23, 137/3, 137/4 in Pulikkal Village, Kondotty Taluk, Malappuram**

**Decision:** The Committee deferred the item for detailed scrutiny in the next meeting.

**26. SIA/KL/MIN/408697/2022, 2183/EC6/2023/SEIAA**

**Environmental Clearance for Laterite building stone quarry of Sri. Abu Thahir. P. K for an area of 0.9496 Ha at Re-Survey Nos. 339/8, 338/1-1, 477/1-1 in Vazhakkad Village, Kondotty Taluk, Malappuram**

**Decision:** The Committee deferred the item for detailed scrutiny in the next meeting.

**27. SIA/KL/MIN/410973/2022, 2216/EC6/2023/SEIAA**

**Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. A. K. Soman for an area of 0.5623 Ha at Sy.Nos.118/10, 158/2 in Kavanur Village, Ernad Taluk, Malappuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**Granite Building Stone Quarry of Vijayan R, Veena Sadanam, Kattuputhussery, Pallikal (p.o), Thiruvananthapuram, Kerala in an extent of 0.3900 Ha (39.00Areas) in Pallikkal Village, Varkala Taluk, Thiruvananthapuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**Building Stone Mine” Quarry Project of M/s Metarock Private Limited is located at Block No. 41, Sy. Nos. 340/8, 340/19, 340/22, 341/2-1, 341/2-2, 341/2-3, 341/3, 341/8, 341/8-1, 356/2, 356/4, 356/5, 356/5-1, 356/5-2pt, 356/5-3, 356/5- 5, 356/6pt, 356/10, 356/10-1pt, 356/10-1-1pt, 357/7-1pt, 357/26pt, 341/1pt, 356/3pt, Aruvikkara Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala for an area of 3.7980 ha**

**Decision:** The Committee examined the proposal and noted that the mineable resource is 18,98,673 MT (Average annual production 2,90,000 TPA) and the mine life is 10 years. The depth to water table is reported as 10m bgl. The nearest habitation is at 53.60m near BP13. Public hearing was done on 6.06.2022. The committee discussed the field inspection report conducted on 18.02.2023. Based on discussions, **the Committee decided to recommend EC for a mine life of 10 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Develop and nurture wide green belts of dense foliage all along the buffer of project area within first two years itself and the status should be submitted along with geotagged photographs in the HYCR

2. The machinery which generates less noise only should be procured and they should be regularly maintained. The noise level of the machinery and equipment used should be monitored and submitted along with the HYCR
3. Conduct periodical medical check-up of all workers for health problems and the details should be furnished along with the HYCR
4. A report on monitoring of noise once in 3 months in the project area, and at sensitive receptors should be submitted along with HYCR
5. The impact of vibration due to blasting on all the built structures within 500m 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. The proponent has to schedule the blasting accordingly as it will not overlap with the blasting time of the adjacent mines.
7. An MoU should be signed with the adjacent quarry owners regarding the blasting time to avoid concurrent blasting and submit the same to the SEIAA prior to the commencement of mining.
8. Compulsory use of muffling arrangements during blasting to arrest fly rocks should be done in addition to NONEL blasting. Geotagged photos of the use of muffling arrangements should be submitted with HYCR
9. Compensatory afforestation (in 0.38 ha and outside ML area) as proposed in S & SW direction with local trees of dense foliage should be done within first two year itself and Geotagged photos of the same shall be submitted with HYCR
10. The blasting should be done only using the blast of diameter 32mm and depth 1.5m.
11. Install sprinklers all along the haulage road and Use mobile sprinklers within the mine site for effective dust suppression. Also use air suspended water mist/fog sprinkler system where ever applicable
12. Transport of material from quarry to crusher should be in a wet condition and also use air suspended water mist/fog sprinkler system at the unloading area of crusher unit
13. The environmental monitoring should be done by establishing more number of monitoring stations, especially in the downwind directions for air quality and noise level. Also check the air quality model every year by monitoring stations mentioned in the air quality model (Mylam Govt. school, Perumkulam & St. Shantal English Medium School).
14. A butterfly garden should be developed within the first two year since one of the species of butterfly in the area is endemic i.e. Southern Birdwing. Geotagged photos of the same should be submitted along with the HYCR
15. The water level data of the observatory well (Well No. 4 (W4) located in the south direction - Latitude N 08° 33'15.02'' and Longitude E 77°01'22.87'') should be monitored monthly and submitted along with HYCR.
16. AA', BB' & CC' sections of the mined area should be filled with earth material and vegetated as part of progressive mine closure

17. The impact of vibration due to blasting on the houses and built structures within 500m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
18. 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.
19. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
20. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
21. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
22. Overburden should be stored at the designed place and gabbion wall should be provided for the topsoil and overburden storage sites
23. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
24. 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).
25. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
26. Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power
27. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.
28. Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.

**30. SIA/KL/MIN/77965/2019 , 1278/EC2/2019/SEIAA  
Environmental Clearance for the Granite Building Stone Quarry Project of  
Sri.Jaisal M.P for an area of 3.8323 Ha at Sy.No.269/1-5, 269/1-2, 269/1-3,269/1-4  
in Nediyrippu Village, Ernad Taluk, Malappuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**31. SIA/KL/MIN/81144/2019 , 1421/EC1/2019/SEIAA  
Granite Building Stone Quarry of Ms. Malabar Blue Metals in Re Survey Nos. 570/5,  
570/7, 570/11, 571/3, 571/4, 542/8 of Ambalappara-1 Village, Ottappalam Taluk,  
Palakkad District**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**1. SIA/KL/MIN/296253/2023, 1597/EC4/2020/SEIAA**

**Extend validity of EC of the laterite mining project for the site Re Sy No.19/245 at Koodathai Village, Thamarassery Taluk, Kozhikode District, and Kerala with an area of 0.8094 Hectors of Mr. Ramachandran.P.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**PART 3**

**1. SIA/KL/INFRA2/418741/2023 , 2236/EC3/2023/SEIAA**

**Building Project ‘Avigna Warehouse/ Logistics Park’ at Parakkadavu, Ernakulam Re-Survey No.: 219/1, 219/2-4, 219/2-6, 219/2-5 & 219/2- 3,219/2-4-2, 219/2-5-2, 219/2-6-2, 230/11, 230/1, 219/1-3, 220/1, 220/1-2, 219/2-2, 219/2, 230/7, 220/2 at Parakkadavu Village, Aluva Tehsil, Ernakulam (Fresh proposal)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**2. SIA/KL/MIN/131683/2019, File No: 1813/EC3/2020/SEIAA**

**Environmental Clearance for Granite Building Stone Quarry of Sri. N.A Thomas for an extent of 0.9668 Ha, Survey No 372/1A/3/8, 372/1A/4/9 & 372/1A/4/9 in Kottappady Village, Kothamangalam Taluk, Ernakulam - District, Kerala.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**3. SIA/KL/MIN/140563/2020, File No: 1818/EC3/2020/SEIAA**

**Environment Clearance for mining permit of Building Stone Quarry owned by M/s Concrete Aggregates Industries over an extent of 2.7340 Ha Re Sy 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 Pattimattom Village, Kunnathunadu Taluk, Ernakulam, Kerala**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**Environmental Clearance for the extraction of 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**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

- 5. SIA/KL/MIN/238592/2021 , 2114/EC3/2022/SEIAA**  
**Laterite stone quarry project of CHARLS M. P., 0.1419 Ha., Block No. 24, Re-Survey No. 433/1, Mulanthuruthy village, Kanayannoor Taluk, Ernakulam (Fresh Proposal)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

- 6. SIA/KL/MIN/261677/2022 , 2180/EC3/2023/SEIAA**  
**Laterite stone quarry project of CHARLS M. P., 0.1927 Ha., Block No. 24, Re-Survey No. 435/2-3, Mulanthuruthy village, Kanayannoor Taluk, Ernakulam (Fresh Proposal)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

- 7. SIA/KL/MIN/271891/2022, File No. 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 -Physical to Online)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

- 8. SIA/KL/MIN/277481/2022 , 2118/EC2/2022/SEIAA**  
**Environment Clearance for mining permit of " M/s Minering Aggregates Private Limited" over an extent of 4.7998 Ha at Re-Sy Block No.:01, Re-Sy No.: 23/1 pt427, 23/1 pt426, 23/1 pt424 & 23/1 pt375, Kolathur Village, Kasaragod Taluk, Kasaragod District, Kerala**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

- 9. SIA/KL/MIN/413609/2023 , 2204/EC1/2023/SEIAA**  
**Laterite (Building Stone) Quarry of Sri. Suhaib Kunnan in Re-Survey Nos: 7/2-6, 7/2-12, 7/2-13, 7/2-20 of Koppam Village, Pattambi Taluk, Palakkad District, Kerala (Fresh file)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**10. SIA/KL/MIN/415396/2023 , 2248/EC6/2023/SEIAA**

**Environmental Clearance for the Laterite Building Stone Project of Sri.Sharafudheen at Sy.Nos.533/1-33, 533/1-63 in Kuttippuram Village, Tirur Taluk, Malappuram (Fresh application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**11. SIA/KL/MIN/417275/2023 , 2247/EC6/2023/SEIAA**

**Environmental Clearance for the mining of Clay by Sri. Vinod Vasudevan at Sy.Nos.312/PT1, 312/PT2, 342/1-1, 342/2-1, 342/1, 342/2-3 in Palur Village, Thalappilly Taluk, Thrissur (Fresh application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**12. SIA/KL/MIN/419350/2023 , 2253/EC6/2023/SEIAA**

**Environmental Clearance for the Laterite Building Stone Project of Sri.SATHEESH for an area of 0.0970 Ha at Sy.No.23/15 in Kavanur Village, Ernad Taluk, Malappuram (Fresh application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**13. SIA/KL/MIN/420651/2023 , 2242/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.K.C.Ali, in Block no :91, Re-Survey No: 46/1356 of Kaliyad Village, Iritty Taluk, Kannur District, Kerala for an extent of 0.0971 Ha (Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**14. SIA/KL/MIN/422360/2023 , 2244/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Ayanath Priyesh in Block no: 138 Re-Survey Nos. 362/8, 362/41, 362/162, 362/237 of Chuzhali Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.3884 Ha. (Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**15. SIA/KL/MIN/423122/2023 , 2245/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Sabi A, in Block No. 138, Re-Survey No: 362/222 of Chuzhali Village, Thaliparamba Taluk, Kannur District, Kerala for an extent of 0.0971 Ha.(Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**16. SIA/KL/MIN/423901/2023 , 2243/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Pacheni Rameshan, in Block no :138, Re-Survey No: 362/29 of Chuzhali Village, Taliparamba Taluk, Kannur District, Kerala for an extent of 0.0971 Ha. (Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**17. SIA/KL/MIN/423945/2023 , 2260/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Babu.K, in Block No. 37, Re-Survey No: 1/118 of Kuttoor Village, Payyannur Taluk, Kannur District, Kerala for an extent of 0.1942 Ha.(Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**18. SIA/KL/MIN/423966/2023 , 2259/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Bijumon George, in Re-Survey No: 109/106 of Peringome Village, Payyannur Taluk, Kannur District, Kerala for an extent of 0.1942 Ha.(Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**19. SIA/KL/MIN/424608/2023 , 2249/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Cheriya Vilappinakath Siyad , in Block No. 88, Re-Survey No: 3/1685 of Kaliyad Village, Iritty Taluk, Kannur District, Kerala for an extent of 0.1942 Ha. (Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**20. SIA/KL/MIN/424892/2023 , 2258/EC4/2023/SEIAA**

**Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri.Narayanan K V, in Re-Survey No: 1/118 of Kuttoor Village, Payyannur Taluk, Kannur District, Kerala for an extent of 0.1942 Ha.(Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**21. SIA/KL/MIN/278920/2022 , 2091/EC6/2022/SEIAA**

**Environmental Clearance for the Granite Building Stone Quarry of Sri. Sajeer. K. T, for an area of 1.2008 Ha. at Block No.61, Re.Survey No. 3/4, 3 in Trikkalangode Village, Ernad Taluk, Malappuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**22. SIA/KL/MIN/175300/2020, File No: 1987/EC3/2022/SEIAA**

**Environmental Clearance for the removal of Building Stone Minor Mineral Mining (Quarry) project of M/s Rock field Estates Pvt. Ltd. at Block No. 48 in Re-Survey No. 400/1, 400/2, 401/5-2, 406/5 of Chengalam (E) Village, Kottayam Taluk, Kottayam District, Kerala.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**1. SIA/KL/MIN/296717/2023 , 1957/EC6/2022/SEIAA**

**Application for the extension of EC for the Granite Building Stone Quarry of KNRC Holdings & Investments Pvt Ltd (Fresh application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**CONSIDERATION OF TOR PROPOSALS**

**1. SIA/KL/MIN/426310/2023 , 2257/EC4/2023/SEIAA**

**Application for ToR for the Granite Building Stone Quarry Project of M/s Ellora Stones, in Survey No. 291/2, 293/101, 293/103, 293/104, 293/105, 293/106, 293/107, 293/108, 293/110, 293/112, 293/3, 299/103, 299/109, 299/4, 348/1 in Block No. 45 of Vayakkara Village and 135/1, 135/101, 135/116, 135/118, 135/119, in Block No. 42 of Peringome Village, Payannur Taluk, Kannur District, and Kerala State (Fresh Application)**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

#### **AGENDA NOTE – PART 4**

**1. SIA/KL/INFRA2/410612/2022 , 2167/EC1/2022/SEIAA**

**Environment Clearance for proposed Residential project to be developed by M/s Sobha Developers Pune Ltd. at Survey Nos.128/18-1, 128/20, 128/2-1, 128/3, 128/4-2, Cheruvakkal Village, Thiruvananthapuram Municipal Corporation, Thiruvananthapuram Taluk & District, Kerala**

**Decision:** The Committee examined the proposal and perused the additional details sought in the 141<sup>st</sup> meeting of the SEAC and found them mostly satisfactory except the explanations on waste management. The Proponent did not submit the CER along with the application stating that it will be submitted after discussion with the Corporation. During the field inspection, the Proponent informed that the CER proposal is under preparation as the stakeholder consultation is in progress and it will be submitted shortly. However, it is not found submitted yet. Therefore, the Committee decided to direct the Proponent to submit the CER as per norms.

**2. SIA/KL/MIN/214224/2021, 1900/EC4/2021/SEIAA**

**Environment Clearance for the Granite Building Stone Quarry of M/s. Irikkur Rocks Products Private Limited, for an area of 4.8404 Ha. (11.9606 Acres) for the granite building stone at Block No. 83, Re-Sy. No. 4, Eruvessy Village, Thaliparamba Taluk, Kannur, Kerala State. (Presentation).**

**Decision:** The committee examined the proposal, discussed the field inspection report and evaluated the EIA report and EMP statement. Accordingly, **the Committee decided to direct the proponent to submit the following additional documents:**

1. CER as per the OM No F.No.22-65/2017-IA.III dated 30th September 2020.
2. Plan for development of the haulage road
3. The proposed site is juxtaposed between a moderate and high hazard zone having a gap of less than 20m with the moderate hazard zone and less than 50m with high hazard zone on the side slope of a hill with maximum elevation around 600m above MSL. The general slope of the lease hold area is between 10° to 36° degree. Considering the hazard vulnerability of the site, a detailed land hazard vulnerability assessment of the area should be done engaging an expert institution such as NCESS, GSI or such other scientific institutions.
4. The impact of vibration due to blasting on the buildings and other built structures within 500m radius of the proposed project boundary (OM dated 29.10.2014) should be done by engaging institutions such as NIRM, NIT, Surathkal or such other institutions in compliance to ToR 8.

5. Air quality modelling study should be done considering the emission details of the operational quarries, transportation details and other parameters as required within the impact zone in compliance to ToR 23.
6. The details provided against the ToR 27, 28 and 34 dealing with impact on water resources, ground water intersection studies and hydrology are inadequate. All these components are extremely important for the terrain under consideration. The hydrological and ground water related aspects are crucial in terms of hazard vulnerability of the proposed site. Therefore, detailed studies and based reports in compliance to ToR 27, 28 and 34 should be submitted.
7. Details of conceptual post mining land use in compliance to ToR 34.
8. Detailed site-specific disaster management plan in compliance to ToR 42.
9. Revised site specific and comprehensive EMP taking into consideration the details of additional details and studies sought as above.
10. Clarification on the distance between the boundary of Brahmagiri wildlife sanctuary and the project boundary with authenticated proof.
11. Incidence of soil piping, if any, within the impact zone, in general, and within the vicinity of the site, in particular.

**3. SIA/KL/MIN/239186/2021 , 2056/EC1/2022/SEIAA**

**Granite Building Stone Quarry of Mr. Adeshkumar C.S at Survey No 208/1-62,208-1-28 in Alanallur-III Village, Mannarkkad Taluk, Palakkad District, Kerala State for an extent of 0.9913Ha**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**4. SIA/KL/MIS/284787/2022 , 2099/EC6/2022/SEIAA**

**Environmental Clearance for the Proposed Expansion of Commercial Complex Project (Ozone Mall) to be developed by M/s INOA Properties & Developers LLP in Pathaikkara Village, Perinthalmanna Taluk, Malappuram**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**5. SIA/KL/MIS/285493/2022 , 2074/EC1/2022/SEIAA**

**Environmental Clearance for the proposed expansion within the existing Hospital premises (“Ananthapuri Hospital & Research Institute”) by M/s Ananthapuri Hospitals Private Limited by Dr. A. Marthanda Pillai, Chairman & Managing Director, M/s Ananthapuri Hospitals Private Limited, in Pettah Village, Thiruvananthapuram Taluk, Thiruvananthapuram District**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**6. SIA/KL/MIS/288438/2022 , 2104/EC6/2022/SEIAA**

**Environmental Clearance for the expansion of existing Building and Construction project to be jointly developed by M/S FRANCISCAN SISTERS OF ST. CLARE CHARITABLE TRUST ARATTUPUZHA AND M/S FRANCISCAN SISTERS OF ST. CLARE SANYAASA SAMOOHAM PALLISSERY at Re. Sy. Nos. 67/6, 67/3, 67/5, 68/2-1, 68/2-2, 68/3, 68/2-3, 68/4 in Arattupuzha Village, Thrissur Taluk, Thrissur.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

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

**4. SIA/KL/MIN/162964/2020, 125/SEIAA/KL/2335/2013**

**Renewal of Environment Clearance for the Building Stone Mine ( Minor Mineral Mining ) project of M/s Valluvanad Granites is situated at Survey Nos. 2/2 & 5/2 in Village - Lakkidi-Perrur 1st, Panchayat – Lakkidi-Perrur, Taluk - Ottapalam, District - Palakad, Kerala in an area of 4.8120 hectares.**

**Decision:** The committee deferred the item for detailed scrutiny in the next meeting.

**The meeting ended at 5.00 pm. The Committee decided to convene the 143<sup>rd</sup> meeting of the SEAC on the 25<sup>th</sup> & 26<sup>th</sup> of May 2023.**

**Suneel Pamidi, IFS  
Secretary, SEAC**

**Dr.Ajayakumar Varma  
Chairman, SEAC**

<b>Sl.No.</b>	<b>Name</b>	<b>11.05.2023</b>	<b>12.05.2023</b>
1.	Shri. Sheik Hyder Hussain	√	√
2.	Dr.A.Bijukumar.	√	√
3.	Dr.A.N.Manoharan	√	√
4.	Shri. M.Dileepkumar	X	X
5.	Smt. Beena Govindan	√	√
6.	Dr.C.C.Harilal	X	√

7.	Dr.K.Vasudevan Pillai	√	√
8.	Dr.Mahesh Mohan	√	√
9.	Dr.K.N.Krishna kumar	√	√
10.	V.Gopinathan	√	√
11.	Dr.A.V.Raghu	√	√
12.	Dr.N.Ajithkumar	√	√
13.	Shri.Suneel Pamidi,IFS <b>(Secretary)</b>	√	√
14.	Dr.R.Ajayakumar Varma <b>(Chairman)</b>	√	√

**Annexure**

**Evaluation report of the EIA report of the Granite Building Stone Quarry Project of Sri. Muhammed Ibrahim Palakkan, M/s Rox Silicon Private Limited.**

*Standard TOR Conditions*

<i>Sl No</i>	<i>Conditions</i>	<i>Response (in EIA document) and its evaluation (in Bold)</i>
<i>1</i>	<i>A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.</i>	<i>Response: The Letter of Intent (LOI) for this mining Granite stone quarry project issued by Dept. of Mining and Geology Department, Malappuram, Letter No.6961/M3/2018, dated. 31.07.2018. (Annexure 1) Annexure 1 is not found in this EIA document</i>
<i>2</i>	<i>All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.</i>	<i>Response: All the documents i.e. Mining Plan, EIA, and public hearing are compatible with each other in terms of ML area production levels, waste generation and its management and mining technology are compatible with one another. The mining plan of the project site has been submitted to The District Geologist Geology and Mining Malappuram District. (Annexure 2) Annexure 2 is not found in this EIA document</i>
<i>3</i>	<i>All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and bufferzone).</i>	<i>Response: Details of coordinates of all corner of proposed mining lease area have been incorporated in Plate 2 of Final EIA/EMP Report. Provided</i>
<i>4</i>	<i>Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil</i>	<i>Response: Topo map enclosed as Chapter-2  Provided</i>

	<i>characteristics.</i>	
5	<i>Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.</i>	<i>Response: Topo map enclosed as Chapter-2 Provided.</i>
6	<i>It should be clearly stated whether the proponent company has laid down Environment Policy approved by its Board of Directors? Ifso, it may be spelt out in the EIA report with description of the prescribed operating process/procedures to bring into focus any infringement/ deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or Administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system- of reporting of non-compliances/ violations of environmental normsto the Board of Directors of the Company and/or shareholders or stakeholders at large may also be detailed in the EIA report</i>	<i>Response: Noted</i>
7	<i>Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.</i>	<i>Response: It is an opencast mining project. Blasting details are incorporated in chapter-2 Provided. Chapter 2</i>
8	<i>The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period</i>	<i>Response: Study area comprises of 10 km radius from the mine lease boundary. Key plan showing core zone (ML area). Environment Sensitivity Map Provided Page No. 55</i>
9	<i>Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and</i>	<i>Response: Land Use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, National park, migratory routes of</i>

	<p><i>other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.</i></p>	<p><i>fauna, water bodies, human settlements and other ecological features has been prepared and incorporated in Chapter-3 of final EIA/EMP report. There is no wildlife sanctuary and national park, migratory routes of fauna in the study area.</i></p> <p><i>As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in the table 3.18. But in the table 3.18 only details of Flora and are given.</i></p>
10	<p><i>Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&amp;R issues, if any, should be given.</i></p>	<p><i>Response: Quarry is fresh, quarry, details of land use pattern is discussed in chapter 2.</i></p> <p><i>As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in the table 2.5. But this table is for details of Land use pattern. No further details are given in this table. (page No. 68)</i></p>
11	<p><i>The vegetation in the RF / PF areas in the study area, with necessary details, should be given</i></p>	<p><i>Response: Details of flora have been discussed in Chapter-3 of the final EIA/EMP Report.</i></p> <p><i>As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in Chapter 3, Page 109-153. But it is described in pages 113-158. Details of flora, fauna and other biological resources are given in this.</i></p>
12	<p><i>A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should</i></p>	<p><i>Response: Flora, fauna study observed in the study area and discussed in Chapter-3 No significant impact is anticipated.</i></p> <p><i>This study concluded as “The proposed location located on a steep</i></p>

	<i>be worked out with cost implications and submitted.</i>	<i>hill and consists of moist deciduous type of habitat. The vegetation of the proposed site was totally destroyed just prior to the visit of assessment. The trees and shrubs were cut down and almost all the ground cover vegetation was subjected to fire. But still the assessment recorded a significant number of birds and butterflies from the location. The adjacent vegetation and the amount of top soil represent the biodiversity aspects of the location. Seasonal water flowing channels were also noticed during the survey. A total land conversion and destruction of vegetation reported during the survey. The elevation, habitat type and presence of related fauna indicate the biological value of the proposed site in terms of biodiversity conservation” (Page No. 158). The species described in this, two Santalum album trees are seen in this site. S. album is recognized as a "vulnerable" species by the International Union for the Conservation of Nature (IUCN).</i>
13	<i>Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.</i>	<i>Response: There is no National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Tiger/Elephant, Reserves/Critically polluted areas within 10km radius of the mining lease area. Proof is not submitted</i>
14	<i>A detailed biological study of the study area</i>	<i>Response: Details biological study</i>

	<p><i>[core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.</i></p>	<p><i>(flora &amp; fauna) within 10 km radius of the project site have been incorporated in Chapter-3 final EIA/EMP Report.</i></p> <p><i>As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in Chapter 3, Page 109-153. But it is described in pages 113-158. Details of flora, fauna and other biological resources are given in this. This is same as point 10 and 11. As per this the site has good biological value. As per this study there is no scheduled I fauna found in the site.</i></p>
15	<p><i>Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.</i></p>	<p><i>Response: The existing granite mining lease area is not falling under forest land.</i></p>
16	<p><i>R &amp;R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&amp;R Plan, the relevant State/National Rehabilitation &amp; Resettlement Policy should be kept in view. In respect of SCs/STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes offline departments of the State Government. It may be clearly brought out whether the village located in the mine lease area will be shifted or not. The issues relating</i></p>	<p><i>Response: There is no Rehabilitation and resettlement is involved. Land classified as Private land. (Page 41)</i></p>

	<i>to shifting of Village including their R&amp;R and socio-economic aspects should be discussed in the report.</i>	
17	<i>Primary baseline data on ambient air quality CPCB Notification of 2009 water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented datewise in the EIA and EMP Report. Site-specific meteorological data Should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre- dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre- dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.</i>	<i>Response: Baseline data collected during Post Monsoon Season (October-2020 to December-2020) has been incorporated in final EIA/EMP report. Site Specific metrological data has been collected and incorporated in final EIA/EMP report. The key plan of monitoring station has been discussed in Chapter-3. Locations of the monitoring stations have been selected m keeping in view the pre-dominant downwind direction and location of the sensitive receptors and also that they represent whole of the study area. (Page 42). As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in Chapter 3, Page 72-108. But it is described in pages 80-85. As per this, Ambient air monitoring was carried out on monthly basis at 7 locations over a period of (October – December 2020) pre Monsoon Season and Monsoon. As per this note, this study was conducted during October to December. But in Kerala monsoon period is over in September. And pre monsoon months are March to May. So it is found that there is no study conducted in pre Monsoon Season and Monsoon as written in the response in the EIA study. There is no study found in connection with “The mineralogical composition of PM10, particularly for free silica..”</i>

18	<p><i>The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.</i></p>	<p><i>Response: Total water requirement: 3.5 KLD Dust Suppression: 1.5 KLD Domestic Purpose: 0.5 KLD Plantation :1.5 KLD Domestic Water will be sourced from nearby open well</i></p>
19	<p><i>Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.</i></p>	<p><i>Response: At the last stage of mining operation, almost complete area will be worked to restore the land to its optimum reclamation for future use as water reservoir.</i></p> <p><i>As per the Table of Compliance of TOR Conditions (Page no 36), the response to this point is written as given in Chapter 4, but chapter 4 deals 'Anticipated Environmental Impact and Mitigation Measures'. Details are not found in this.</i></p>
20	<p><i>Impact of the project on the water quality, both surface and groundwater should be assessed and necessary safeguard measures, if any required, should be provided.</i></p>	<p><i>Response: Impact of the project on the water quality &amp; its mitigation measures has been incorporated in Chapter-4 of final EIA/EMP report. (Chapter-4 Pg No. 158).</i></p> <p><i>Chapter 4 deals 'Anticipated Environmental Impact and Mitigation Measures'. Details are not found in this.</i></p>
21	<p><i>Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.</i></p>	<p><i>Response: Proposed depth – Highest 190m MSL to Lowest 80 m MSL The water table is below 20m MSL in Post Monsoon to 10m MSL in Pre monsoon, so mine working will not be intersecting the ground water table. (Chapter 2, page 66).</i></p> <p><i>In the chapter 2, page number 67 (not in 66) the given details are given. More details and evidence are not provided.</i></p>

22	<i>Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.</i>	<i>Response: There is no any stream, seasonal near the project site (Chapter 1 Pg No. 32). Details are not provided in the above mentioned chapter and Page.</i>
23	<i>Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.</i>	<i>Response: Highest elevation :190 MSL Lowest elevations: 80 MSL Proposed depth – Highest 190m MSL to Lowest 80 m MSL (Chapter-1 Table no.1.1 and Chapter-2 Pg No. 66) In chapter 2 pg No. 66 the details are not there. A schematic diagram also not seen in the Chapter 1 and 2.</i>
24	<i>A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.</i>	<i>Response: Green Belt Development plan is given in Chapter 2. (Chapter -2 Pg No. 71). Details provided in 71 and 72.</i>
25	<i>Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.</i>	<i>Response: There shall not be much impact on local transport. The detailed study is not found in this aspect.</i>

	<i>Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines</i>	
26	<i>Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.</i>	<i>Adequate infrastructure &amp; other facilities shall be provided to the mine workers. Details are given in chapter-2 of final EIA/EMP. (Chapter 2. Pg. 69). In pg 70 (Not in Pg. 69), It is written that, a temporary rest shelter with amenities like drinking water and toilets facilities etc. will be provided to workers at the site office (2.18.1)</i>
27	<i>Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report</i>	<i>Response: There is no Reclamation and Restoration is involved. Land classified as Private land.</i>
28	<i>Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed</i>	<i>Response: Suitable measure will be adopted to minimize occupational health impacts of the project. The project shall have positive impact on local environment. Details are given in chapter-9 of final EIA/EMP. In chapter 9, page 194, 9 points given in this aspect.</i>
29	<i>Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.</i>	<i>Response: Suitable measure will be adopted to minimize occupational health impacts of the project. EMP is given in the chapter 9. Budgetary allocations are not provided in this.</i>
30	<i>Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation</i>	<i>Response: CER Activity is discussed in Chapter 6. (Chapter 6 Pg No. 176) 14 lakhs CER proposed. (Page 183 and 184). But detailed study is not conducted in this condition.</i>
31	<i>Detailed environmental management plan (EMP) to mitigate the environmental impacts</i>	<i>Response: Environment Management Plan has been described in detail in</i>

	<i>which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.</i>	<i>Chapter-9 of the final EIA/EMP Report. (Chapter 9) EMP is not prepared in a proper way.</i>
32	<i>Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.</i>	<i>Response: The Public hearing / Consultation was conducted on 23.09.2021 at Malappuram Municipal (Bus Stand) Auditorium, Malappuram, Kerala 676505. Proceedings of Public hearing minutes is enclosed Annexure-  In Public hearing 79 public attended directly and 13 participated through online. However only 4 peoples were participated in the discussions as per the minutes of the public hearing. In this no one raised any points against this project. And there is no special requirements/demands from the public.</i>
33	<i>Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.</i>	<i>Response: Not applicable. No litigation is pending against the project in any court.</i>
34	<i>The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.</i>	<i>Response: The cost of the project is discussed in Chapter 8. The project cost is 1,83,70,000</i>
35	<i>A Disaster management Plan shall be prepared and included in the EIA/EMP Report</i>	<i>Response: Disaster Management and Risk Assessment has been incorporated in Chapter-4. One para is note is given</i>
36	<i>Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.</i>	<i>Response: Benefits of the project have incorporated. (Chapter 8) One para is note is given</i>
37	<i>Besides the above, the below mentioned general points are also to be followed:-</i>	
a	<i>Executive Summary of the EIA/EMP report</i>	<i>Response: Executive Summary of EIA</i>

		<i>Report is given from Page No.12 to 29 Not Satisfactory</i>
<i>b</i>	<i>All documents to be properly referenced with index and continuous page numbering.</i>	<i>Response: Complied Page numbers given in the index (Table of Compliance of TOR Conditions (Page no 36)) are incorrect</i>
<i>c</i>	<i>Where data are presented in the reported specially in tables, the period in which the data were collected and the sources should be indicated</i>	<i>Response: Complied Not Satisfactory</i>
<i>d</i>	<i>Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&amp; CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the project.</i>	<i>Response: Complied</i>
<i>e</i>	<i>Where the documents provided are in a language other than English, an English translation should be provided</i>	<i>Response: Complied</i>
<i>f</i>	<i>The questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.</i>	<i>Response: The complete questionnaire has been prepared.</i>
<i>g</i>	<i>While preparing the EIA report, the instruction for the proponents and instructions for the consultants issued by MoEF vide O.M. No.J11013/41/2006-IA.II(I), dated 4th August 2009, which are available on the website of this Ministry, should also be followed</i>	<i>Response: The EIA report has been prepared and complying with the circular issued by MoEF vide O.M. No. J11013/41/2006-IA.II(I) dated 4th August, 2009.</i>
<i>h</i>	<i>Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the</i>	<i>Response: There are no Changes in prepared EIA as per submitted Form-I and PFR</i>

	<i>revised documentation.</i>	
<i>i</i>	<i>As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable</i>	<i>Response: Will be complied after grant environment clearance form SEIAA, Kerala.</i>
<i>j</i>	<i>The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections (iii) sections of mine pit and external dumps, if any clearly showing the features of the adjoining area.</i>	<i>Response: All Sectional Plates of Quarry is enclosed in Mining Plan</i>