

MINUTES OF THE 165th MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), KERALA HELD ON 20th MAY 2024, THROUGH ONLINE

The meeting started at 10.00 AM on 20th May 2024. Dr. R. Ajayakumar Varma, Chairman, SEAC Kerala chaired the meeting. The Committee discussed the agenda items in detail and took the following decisions:

PHYSICAL FILES

Item No. 165.01 **Complaint against the quarries in Mudakoimala, Vazhakkad Village, Kondotty Taluk, Malappuram (File No.2897/EC1/2023/SEIAA)**

The Complainants Sri. Anvar Shareef, Sri. Jamaludheen and Sri. Musthafa Mambad have attended the hearing. The complainants raised the following averments against the laterite mining in Mudakoimala, an area of around 700 acres in Vazhakkad Village:

1. Around 50 lorries are plying daily through the narrow village road, destroying the road as well as causing severe dust pollution and the level of pollution in Thiruvallur area is extremely high.
2. The wildlife, mainly monkeys who gets disturbed due to the mining activities, is now causing severe nuisance to the public and residential areas
3. Around 10 to 20 abandoned mine pits are there in the area with water-logged posing severe threat of accident and disaster
4. The drained water from the mine sites is indiscriminately channelized through the roads and pathways and gets discharged to the agricultural lands on the downslopes without desilting which causing severe siltation in the low land areas, especially in areas where plantain is cultivated.
5. The mining activities are conducted indiscriminately even in the nighttime time causing severe nuisance in the residential areas
6. The mining depth in majority mines are more than 6m beyond the permitted depth of mining.
7. The mining by Sri. Ismail K.P and Sri. Krishnan and Sri. Abu Thahir has been causing severe adverse impacts in the .

After hearing the averments, the **Committee decided to direct the Complainant to submit a detailed hearing note with all relevant supporting documents within a week.**

PARIVESH FILES

Part-1

**Item No.01 Environmental Clearance for the Granite Building Stone Quarry of Sri. Sunil Chandran, Managing Director, M/s. Empire Crushers Private Limited for an area of 1.2784 Ha, at Block No.16, Re-Survey Nos.143/8-1, 143/9-1, 143/9- 2pt, 144/4pt, 144/14pt, 144/15pt in Anad Village, Nedumangadu Taluk, Thiruvananthapuram, Kerala.
(SIA/KL/MIN/434229/2023, 2307/EC1/2023/SEIAA)**

The Committee examined the proposal and discussed the field inspection report conducted on 17/03/2024. As per the application, the mineable reserve is 301210 MT with an annual production 60242 MT. The life of mine is 5 years. The highest elevation is 170 m MSL and the lowest is 135 m MSL. The nearest house is at 67.6m and a shed is located at a distance around 50m. The depth to water table reported is 5m bgl. The distance to the medium hazard zone is 8.28 km and to the high hazard zone is 11.6 km. The Peppara Wild Life Sanctuary is at 8.7 km. The project cost is Rs. 1.37 crore. The land is under a healthy rubber plantation and soil thickness is about 2 m and the slope is moderate. A temple, namely, Vembil Sree Boothathan Temple is situated near the site at a distance of 61 m. **Based on the above observations and discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Detailed storm water management plan along with the size and length of the diversion arrangements and details of silt removal /settling facility proposed.
2. Plan for diversion of the seasonal first stream/thodu flowing through the mining area and the impacts due to the diversion
3. Location of OB dumping site, geotagged photograph of the site and map of the proposed site and side protection proposed for the site.
4. Details of the number of trees to be cut and plan for compensatory afforestation with geotagged photographs of the proposed sites, species proposed for afforestation and ownership details of the land.
5. Proof of application submitted to SCNBWL for wildlife Clearance.
6. Revised EMP prepared by a NABET accredited consultant considering the seasonal streams in the site and residential areas within 200m radius

Item No.02 Environmental Clearance for the Granite Building Stone Quarry project of Sri. Syam G Raj for an area of 3.4519 ha. at Block no. 33, Re-survey Nos: 144/1, 144/2, 144/3, 144/4, 144/5, 144/7, 144/8, 144/9, 144/10, 144/11, 144/12, 143/1, 143/3-1, 143/3-2, 143/7, 143/15, 143/16, 145/4 of Pazhayakunnummel Village, Chirayinkeezhu Taluk, Thiruvananthapuram. (SIA/KL/MIN/438519/2023, 2427/EC3/SEIAA/2023)

The Committee examined the proposal and discussed the field inspection report conducted on 17/03/2024. As per the application, the total mineable reserve is 15,06,260 MT with 2,00,100 MT from first to seventh year and 1,05,560 MT for eight year. The life of mine is 8 years. The highest elevation of the permit area is 115 m AMSL and the lowest is 70 m AMSL. The depth of mining proposed is up to 70m above MSL. The high hazard zone is at 19.45 km and the medium hazard zone is at 10 km. The Committee observed that, the nearest house is at 67.6 m and two more houses at 72.1 m & 75.7m. The total project cost is Rs.2.5 Crore. **Based on discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Details of the area proposed for storage of the huge quantity of overburden and topsoil along with location map
2. Details of side protection proposed for overburden and topsoil storage as the site has a steep side slope on all four sides.
3. Total land area possessed by the Proponent in the area
4. Details of the number of trees to be cut and proposed compensatory afforestation plan along with geotagged photographs of the proposed site, species proposed to be planted, details of land ownership etc.
5. Recent legible survey map showing distance to all the built structures within 200 m radius is not submitted
6. Revised biodiversity assessment report as there is tabulation error observed
7. Details with size and length of diversion arrangements proposed for stormwater to nearby water body including details of silt removal /settling facility proposed.
8. Details of measures proposed for protecting/ preventing damage to the nearby massive hillock with exposed rock situated in the Government land.
9. Details with slope and width of the proposed access road development considering the slope and elevation of the proposed site.

Item No.03 Environmental Clearance for the Granite Building Stone Quarry of Sri. SHEMEEL R, Managing Partner & Authorized Signatory, M/s. Galaxy Rocks for an area of 4.2146 Ha at Re-Survey No: 416/10, 416/12, 419/3-2, 416/3, 416/3-3, 417/8, 417/7, 417/8-2, 417/3, 417/9, 417/2, 417/1-2, 413/2, 417/1-3, 417/1-6, 417/1-4, 417/1-5 in Kummil Village, Kottarakkara Taluk, Kollam (SIA/KL/MIN/445259/2023, 2162/EC2/2022/SEIAA)

The Committee examined the proposal and discussed the report of evaluation of EIA statement and field inspection conducted on 26/2/2024. As per the application, the total mineable reserve is 2038465 MT. The life of mine is 12 years. The highest elevation is 130 m MSL and lowest is 90 m MSL. The nearest house is at 130 m. The project area is not in moderate hazard zone or high hazard zone. The project cost is Rs.3.25 crore. The Committee discussed the complaint received from Kadakkal Pravasi Forum and from Sri. Abilash C S in the 154th SEAC meeting. The Committee observed that the complaint received from Sri. Abhilash C.S is not specific and mostly general in nature. The Complaint received from Kadakkal Pravasi Forum states that there are many houses within 500 m radius of the proposed site. The Thudayannur Forest is located at a distance of 7.83 km. **Based on discussions the committee noted the following salient aspects in the field/ and the documents submitted.**

1. Non-Assignment Certificate is not submitted
2. Survey map submitted is not legible
3. Plan for managing boulders
4. Road development plan is not provided
5. Compensatory afforestation plan is not satisfactory
6. Revised CER based on adequate stakeholder consultation
7. Plan for preventing breach of water from the mine pit.
8. Detailed drainage plan incorporating garland drain, silt traps, settling ponds and connectivity of overland flow to natural drain
9. Essential infrastructure required for the mine development is included in the Environmental management plan
10. Agreement with other quarries in the cluster to avoid simultaneous blasting
11. Depth of mining to be limited to 70m above MSL considering the depth to water table
12. EMP need revision
13. ToR 7 is addressed only partially as it is not clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors and If so, description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions is not spelt out.

14. ToR 8 is not addressed adequately as the slope study is not based on generating a detailed slope map and the safeguard measures are not proposed based on site-specific evaluation.
15. ToR 9 does not include the data such as waste generation etc. for the life of the mine / lease period and the study area comprising of 10 km zone around the mine lease from lease periphery
16. ToR 10 is expected to prepare land use plan of the mine lease area encompassing preoperational, operational and post operational phases and assess Impact, if any, of change of land use which is not done.
17. ToR 24 is expected to provide a detailed water balance which is not done. Water requirement for the Project, its availability and its source are not adequately detailed. It is proposed to draw water from the open well in the lease area, but no yield test is found carried out. Similarly, it is stated that water for the quarry operations will be drawn from a nearby quarry pond for which no consent seems to have been obtained.
18. ToR 26 demands the description of water conservation measures proposed to be adopted in the Project and details of rainwater harvesting proposed in the Project, but it is not detailed as required.
19. ToR 27 necessitates the assessment of the impact of the Project on the water quality, both surface and groundwater and provide necessary safeguard measures, but no detailing is found to have been done except the sketchy statement through Table 4.1.
20. ToR 28 requires to show whether the quarrying will intersect groundwater based on actual monitored data and documentation which is not found done in the report. The report provided the working depth proposed for quarry at 65m above MSL and depth to water table in a well away from the lease area as 58m above MSL. This does not adequately establish that the mining will not intersect the ground water table. Further, the EIA report stated that detailed study has been done through electrical resistivity study but produced data of just one vertical electrical resistivity sounding. This data shows ambiguous values, probably due to the problem of contact resistance, and no interpretation of the data is provided. Therefore, this ToR need reworking.
21. ToR 30 necessitates to provide information on site elevation, working depth, groundwater table etc. both in AMSL and bgl, and a schematic diagram may also be provided for the same which are not found provided.
22. ToR 31 necessitates a time bound Progressive Greenbelt Development Plan in a tabular form with various other details and the EIA report does not provide any such details
23. ToR 33 asks for details of the onsite shelter and facilities to be provided to the mine workers in the EIA Report, but what is provided in the report is different

24. ToR 35 necessitates detailing of the anticipated Occupational Health impacts of the Project and the proposed preventive measures spelt out in detail. However, it is not found detailed as envisaged.
25. ToR 36 necessitates evaluation of the Public health implications of the Project and related activities for the population in the impact zone and detailing of the proposed remedial measures along with budgetary allocations. This is not found included.
26. ToR 38 necessitates the inclusion of detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project. However, the EMP given as a Table gives only the mitigation measures and a plan for its implementation is missing.

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

1. Authenticated copy of Non-Assignment Certificate
2. Legible and authenticated Survey map
3. Boulder management plan
4. Haulage road development plan
5. Compensatory afforestation plan along with geotagged photograph of the proposed site, ownership details of the proposed land and species proposed to be planted
6. Revised CER based on adequate stakeholder consultation as per the guidelines in the SEIAA website
7. Plan for preventing breach of water from the mine pit.
8. Detailed drainage plan incorporating garland drain, silt traps, settling ponds and connectivity of overland flow to natural drain
9. Agreement with other quarries in the cluster to avoid simultaneous blasting
10. Depth to water table below ground level in the nearest dug well along with geotagged photograph of the well, elevation of the well site and distance from the project boundary
11. Environment policy of the proponent company and related details as envisaged in ToR 7
12. Slope stability study as envisaged in ToR 8 by generating detailed slope map of the proposed site and its surroundings and the safeguard measures based on site-specific evaluation.
13. Details as envisaged in ToR 9, ToR 10, ToR 24, ToR 26, ToR 27, ToR 28, ToR 30, ToR 31, ToR 33, ToR 35 and ToR 36 and after noting the observations on the ToR compliance made above.

14. Revised Environmental Management Plan as envisaged in ToR 38 and incorporating the plan for implementation of the mitigation measures suggested in the EIA report

Item No.04 Environmental Clearance for Granite Building Stone Quarry of Mr.Jayakumar T, Managing Partner, M/s BTL Rocks& Minerals for an area of 1.0379 ha at Re-Survey No's. 359/2- 1, 359/2-2, 360/5, 360/5-1,360/4-1,360/3-4,360/3-5,360/6-2, 360/6-1, 360/4-2 in Kulathummal Village, Kattakada Taluk, Trivandrum, Kerala. (SIA/KL/MIN/450543/2023, 2475/EC3/2023/SEIAA)

The Committee examined the proposal and discussed the field inspection report conducted on 17/03/2024. As per the application, the total mineable reserve is 2,96,725MT. The life of mine is 12 years. The highest elevation of the permit area is 125 MSL and the lowest is 88 MSL. The Low Hazard Zone is at 0.09km, the medium hazard zone is at 13.07km and high hazard zone is at 14.73km. The nearest house is at a distance of 86 m. The proposal is for reappraisal as per OM dated 28.4.2023. **Based on discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. Recent certified legible survey map showing all the built- structures with in 200m radius authenticated by the Village Officer.
2. Distance from the project boundary to the crusher unit
3. All the documents required for reappraisal of EC from SEIAA as per OM dated 28/4/2023

Item No.05 Environmental Clearance for the Granite Building Stone Quarry of Sri. Anoop P.V., Managing Director, M/s. Rudra Stone and Crusher Private Limited for an area of 1.6896 Ha at Block No.30, Re-Survey Nos. 113/6, 113/7, 113/6-1 in Thekkada Village, Nedumangad Taluk, Thiruvananthapuram, Kerala. (SIA/KL/MIN/456003/2023, 2505/EC3/2024/SEIAA)

The Committee examined the proposal and discussed the field inspection report conducted on 17/03/2024. As per the application, the proposed production capacity is about 98251 MT per annum and the total mineable reserve is 491255 MT. The life of mine is 5 years. The highest elevation of the permit area is 195m above MSL and the lowest is 110m above MSL. The moderate hazard zone is reported as 17 Km away from the permit area. Temple is situated near to the site at a distance of 52 m. The nearest house is at 53m. There is a shed existing within the project which need to be removed. The total project cost is Rs 1,70,00,000/-. **Based on discussion, the Committee decided to direct the Proponent to submit the following additional documents for further appraisal of the application:**

1. The Compensatory Afforestation Plan with geotagged photographs of the area, species proposed to be planted and ownership details of the land.
2. Site specific EMP with mitigation measures and budget
3. Legible recently certified survey map indicating the houses and other built structures within 200m measured from the project boundary instead of from boundary pillars.
4. Details with size and length of diversion arrangements proposed for storm water including details of silt removal /settling facility proposed.
5. Proposed diversion arrangements for seasonal stream/thodu flowing through the mining area.
6. Details of side protection proposed for overburden and topsoil storage area.
7. Details of number trees to be cut and plan for compensatory afforestation (1500 trees proposed) with local species of trees, geo-coordinates of proposed area for afforestation and ownership details of proposed land.
8. Precautions/ preventive measures suggested for preventing pollution problems to nearby temple and houses situated within 100 m of the project area.
9. Depth to water table in the nearest dug well along with geotagged photograph of the well site, distance to it from project boundary and elevation of the site

Item No.06 Environmental Clearance for Silica Sand mining project of Smt. S Jayasree for an area of 1.0552 Ha. (2.6074 Acres) at Sy. Nos. 58/11B1, 58/11B2, 58/14 in Panavally Village, Cherthala Taluk, Alappuzha. (SIA/KL/MIN/45722/2019, 1591/EC4/2020/SEIAA)

As invited the project proponent Smt. S Jayasree and the RQP Sri. Thambu Cheriyan were present. The RQP made the presentation. As per the presentation, the proposed Project Cost is Rs. 391.45 Lakhs. The mine life is 5 years. The mineable reserves is 24,121.26 T. The highest elevation of the proposed area is 5.22m above MSL and the lowest elevation is 3.27m above MSL. The Edappangazhi Sreekrishna temple located at 7m from the project site. The SEAC in its 115th meeting discussed and approved the field inspection report. The proposal was presented in the 117th meeting of SEAC and the proponent directed to submit Letter of Intent. In response, the Proponent submitted a letter requesting grant of Letter of Intent and a copy of the certificate stating that Muralikuttan S/o. Sekharan Elayath is one and the same, An affidavit assuring that the sand mining will be confined to 1.0552 Ha , an affidavit assuring that mining activity will not adversely affect natural drainage of the area and an affidavit assuring that mined land will be immediately refilled as detailed in the approved mining plan. The proposal was placed in the 147th SEAC meeting held on 21st & 22nd July 2023, The Committee verified the documents submitted by the proponent and noted that there is a temple and houses adjacent to the project site. As per the application and the Mining Plan, the proposed area is 1.0552Ha whereas the letter of intent is only for 0.9157 Ha. Based on discussions, **the Committee decided to invite the proponent for a presentation.** The proponent was invited for a presentation, but was absent

in 151st, 155th, 159th and 163rd meeting after intimation. **The proponent and RQP presented the project in 165th SEAC meeting, held on 16th, 17th & 18th April 2024.** The Committee noted that the Proponent has submitted a Letter of Director of Mining & Geology No. DMG/7642/2021-MI dated 13.6.2023 regarding the forwarding of Letter of Intent and seeking certain additional documents including EC for issuance of Lease for mining. It is informed that a revised Mining Plan is approved and they have consent from the neighboring community and institutions. **Based on discussion, the Committee decided to direct the project proponent to submit the following additional documents without further delay to avoid delisting of application.**

1. Revised Approved Mining plan.
2. Consent from the neighboring community and institutions

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Item No.01 Environmental Clearance for the Granite Building Stone Quarry of B. Sreekandan, for an area of 4.1573 Ha at Block No. 38, Re- Sy No. 227/1, 227/1-1, 227/1-2, 227/7, 227/18, 228/3, 228/4, 228/5, 228/6, 228/7, 228/10, 228/12, 228/13, 228/14, 228/17, 228/18, 228/19, 228/20, 228/21, 229/4, 229/16, 229/17, 264/3, 264/6, 264/6-1, 264/8, 264/9, 264/9-1, 264/10, 264/10-1, 264/11-1, 265/3, 265/4, 265/8, 265/9 in Anavoor Village, Neyyattinkara Taluk, Thiruvananthapuram District (SIA/KL/MIN/461000/2024)

The Committee examined the proposal and discussed it in detail. As per the application, the total mineable reserve is 10,00,365 MT with an average annual production of 1,00,000 MT. The mine life is 10 Years. The Project cost is 2.5 crores. The lowest elevation of the proposed area is 155 m above MSL and the highest elevation is 200 m above MSL. No houses are found within 100m radius. The Neyyar Peppara Wildlife Sanctuary is located at 9.13 km from the project boundary. The high hazard zone is at a distance of 9.48km and the medium hazard zone is at a distance of 9.60km. The Cluster Certificate dated 23.05.2023, shows four other quarries exist within 500m of the proposed site. The ToR for the project was approved vide letter No. SIA/KL/MIN/433109/2023, 2289/EC1/2023/SEIAA dated 04/09/2023. **Based on discussion, the Committee decided to invite the PP for presentation. The presentation shall include details of the following shortcomings and the additional documents.**

1. Depth to water table measured in the nearest open well to the site with geotagged photographs of the site, distance to the well from the project boundary and elevation of the well site.
2. Baseline environmental data is not found uploaded
3. Details regarding the proof of application submitted for wildlife clearance
4. Proposal for specific protection of the site against the steep slope covering the boundary connecting boundary pillars BP29-BP30-BP31-BP34-BP35 and BP36

The Committee also decided to entrust Er. M. Dileepkumar and Prof. Dr. A. Bijukumar for evaluation of the EIA report.

Item No.02 Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Kunjunneen, for an area of 0.9716 Ha at Re- Sy No. 854/2C1-171 in Kurumbalangode Village, Nilambur Taluk, Malappuram District. (SIA/KL/MIN/450073/2023)

As invited the project proponent Sri. Kunjunneen and the RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the Mineable Quantity is 97,160 MT for a mine life of 3years. The project cost is Rs. 14.85 lakhs. The cluster certificate dated 13/03/2024, states that no authorized quarry is in operation within 500m radius. The depth to water table is 10m below the ground level at 54m bgl. The medium hazard zone is at a distance of 4.28 km and the high hazard zone is at a distance of 5.21 km. As per the presentation, the nearest house is located at distance of 72.35m from the project site. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

1. Detailed drainage plan.
2. Biodiversity Assessment report.
3. Baseline air quality data
4. Tree cutting details in the proposed site.
5. Compensatory afforestation plan.
6. Kurumbalangode is categorized as an ESA village and the Project Proponent should submit a Certificate from a revenue official not below the rank of Tahsildar with duly signed cadastral level map published on the website of KSBB demarcating the ESA and non-ESA areas in the village. The certificate should include the nature of land, nature of possession and a report on natural hazards like landslides, etc., if any.

Item No.03 Environmental Clearance for the Laterite Building Stone Quarry of Sri. G Sudheer, for an area of 0.0971 Ha at Block No. 89, Re-Survey No. 97/164 in Kolari Village, Iritty Taluk, Kannur District. (SIA/KL/MIN/467852/2024)

As invited the project proponent Sri. G Sudheer and the RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the total mineable reserve is 6,797 MT. The life of mine is 1 year. The highest elevation of the proposed area is 161m MSL and the lowest elevation is 160m MSL. The Project cost is Rs. 3.918 lakhs. The depth to the water table is 5m bgl at 147m above MSL. The Cluster certificate dated 11/12/2023, states that no working quarry within 500m radius. The high hazard zone is at a distance of 2.8km and the medium hazard zone is at a distance of 3.2km. A shed is located at a distance of 141.2 m at distance from the proposed site. **Based on discussions, the Committee decided to recommend EC for a period of 1 year subject to the following specific conditions in addition to the general conditions:**

1. The excavation activity should not involve blasting.
2. The excavation activity should be restricted to 2m above the groundwater table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/laborers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.04 Environmental Clearance for the Laterite Building Stone Quarry of Sri. George Thomas, for an area of 0.1744 Ha at Re-Survey No. 56/11 in Wadakkanchery Village, Thalapilly Taluk, Thrissur District. (SIA/KL/MIN/467123/2024)

As invited the project proponent, Sri. George Thomas and the RQP Sri. Dr. Nazar Ahammed were present. The RQP made the presentation. As per the application, the total mineable reserve is 10,100 MT. The project cost is 15 Lakh. The highest elevation of the proposed area is 106 m above MSL and the lowest elevation is 96 m above MSL. The depth to water table is 5m bgl at 93m above MSL. A shed is located at a distance of 74.6m. The nearest house is located at a distance of 142.6m. The Peechi-Vazhani Wildlife Sanctuary is located at a distance of 9.05km from the proposed. The medium hazard zone is located at a distance of 3.3 km and the high hazard zone is located at a distance of 6.8 km. The Cluster certificate dated 25-3-2024, states that there are no operational quarries within a 500m radius. The Committee observed that as per the

Form-1 the reserve forest is located at a distance of 19.36 km. As per the Google Map the distance to the reserve forest is about 20m. **In these circumstances, the Committee decided to direct the PP to submit the following:**

1. Proof of application submitted to SCNBWL FOR wildlife clearance
2. Certificate from the DFO, regarding the distance from the project boundary to the boundary of the reserve forest.

Item No.05 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Ajesh, for an area of 0.3592 Ha at Re- Sy No. 17/3-14 in Puzhakkattiri Village, Perinthalmanna Taluk, Malappuram District. (SIA/KL/MIN/467985/2024)

As invited the project proponent Sri. Ajesh and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, the mineable reserve is 49,390 MT with a recoverable quantity of 39,512 MT. The life of mine is 1 year. The project cost is Rs. 10,15,000/-. The lowest elevation of the proposed area is 120m above MSL and the highest elevation is 145m above MSL. The depth to water table is 10m below the ground level at 129m above MSL. The depth of mining proposed is 6m bgl. The distance to nearest built structure is 60.63m. The medium hazard zone is at a distance of 168m. The Cluster certificate dated 05/04/2024, states that there are no authorized quarry within 500m radius. **Based on discussions, the Committee decided to recommend EC for a period of 1 year subject to the following specific conditions in addition to the general conditions:**

1. The excavation activity should not involve blasting.
2. The excavation activity should be restricted to 2m above the groundwater table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/laborers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.

12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.06 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Ambujakshan M C, for an area of 0.1942 Ha at Block No. 46, Re-Survey No. 14/1114 in Pariyaram Village, Thaliparamba Taluk, Kannur District. (SIA/KL/MIN/468349/2024)

As invited the project proponent Sri. Ambujakshan M C and RQP Sri. V.K. Roy were present. The RQP made the presentation. The mineable reserve as per the mining plan is 18692 MT. The life of mine is 2 years. The project cost is Rs. 5,86,000 /-. The highest elevation of the proposed area is 109m above MSL and the lowest elevation is 107m above MSL. The depth to water table is 5m below ground level at 93 m AMSL. The depth of mining is 5.5m. The high hazard zone is at a distance of 6.8m and the medium hazard zone is at a distance of 3.3 km. As per the cluster certificate dated 05/03/2024, there is no quarry working within 500m radius. The nearest built structure is at a distance of 220 m. **Based on discussions the committee decided to direct the project proponent to submit the following additional documents.**

1. Mine plan is to be resubmitted with all pages since the page no.12 is missing.
2. Depth to water table measured in the nearest open well to the site with geotagged photographs.
3. Detailed drainage plan.

Item No.07 Environmental Clearance for the Laterite Building Stone Quarry project of Shajahan V P, for an area of 0.0951 Ha at Block No. 01, Re- Sy No. 151/1-3 in Panakkad Village, Ernad Taluk, Malappuram District. (SIA/KL/MIN/459046/2024)

As invited, Sri. Muhammed Afsal was present on behalf of the Project Proponent Shajahan V P. The RQP Sri. V.K. Roy made the presentation. As per the application, the total mineable reserve is 9,510 MT. The life of mine is 1 year. The project cost is Rs. 3,86,300/-. The depth to water table is 7m BGL. A shed is located at a distance of 65.69m. The high hazard zone is at a distance of 1.8 km and the medium hazard zone is at a distance of 22.3km. The Cluster Certificate dated 12/12/2023, states that that there are no authorized quarry operates within 500m radius. **Based**

on discussions, the Committee decided to recommend EC for a period of 1 year subject to the following specific conditions in addition to the general conditions:

1. Compensatory afforestation using native species of trees, plants and climbers should be carried out prior to the commencement of mining the geotagged photograph of the progress should be submitted prior to commencement of mining.
2. Depth of mining should be limited to 5m below ground level.
3. The excavation activity should not involve blasting.
4. The excavation activity should be restricted to 2m above the groundwater table at the site.
5. The excavation activity should not alter the natural drainage pattern of the area
6. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
7. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
8. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
9. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
10. Workers/laborers should be provided with facilities for drinking water and sanitation.
11. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
12. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
13. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
14. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
15. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
16. Measures incorporated in the CER should be implemented within 6 months from the date of EC.
17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.08 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Mohanan Aikkomath, for an area of 0.1943 Ha at Block No. 39, Re-Survey Nos. 111/1 in Peringome Village, Payyanur Taluk, Kannur District. (SIA/KL/MIN/469773/2024)

As invited the project proponent Sri. Mohanan Aikkomath and RQP Sri. V.K. Roy were present. The RQP made the presentation. As per the application, mineable reserve is 18,702MT with an annual production of 9,346 MT. The life of mine is 2 years. The project cost is 4,89,600/- The

highest elevation of the proposed area is 141m above MSL and the lowest elevation is 140m above MSL. The depth to water table is 6m bgl at 131m above MSL. The high hazard zone is located at a distance of 6.4 km and the medium hazard zone is at a distance of 878.6m. The distance to nearest house is 137.9 m. The Cluster certificate dated 17/01/2024 indicates that there are no quarry working within a 500m radius. **Based on discussions, the Committee decided to recommend EC for a period of 2 years subject to the following specific conditions in addition to the general conditions:**

1. The excavation activity should not involve blasting.
2. The excavation activity should be restricted to 2m above the groundwater table at the site.
3. The excavation activity should not alter the natural drainage pattern of the area
4. The excavated pit should be restored by the project proponent for agriculture and other useful purposes.
5. Appropriate fencing all around the excavated pit should be made to prevent any mishap.
6. Measures should be taken to prevent dust emissions by covering excavated earth during transportation.
7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to the excavation of earth.
8. Workers/laborers should be provided with facilities for drinking water and sanitation.
9. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of the proposed excavation.
10. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.
11. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
12. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
13. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
14. Measures incorporated in the CER should be implemented within the 1st one year from the date of EC.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5.00 pm)

Item No.09 Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Manikandan K, for an area of 0.9713 Ha at Block No. 41, Re-Survey Nos. 354/360, 354/364 in Peringome Village, Payyanur Taluk, Kannur District. (SIA/KL/MIN/459950/2024)

As invited the project proponent Sri. Manikandan K and Sri. RQP V.K. Roy were present. The RQP made the presentation. As per the application, mineable reserve is 93,488 MT with an

average annual production of 31,166 MT for the first two years and 31,156 MT for the third year. The life of mine is 3 years. The highest elevation of the proposed area is 192m above MSL and the lowest elevation is 190m above MSL. The depth to the water table is 6m below ground level at 173m above MSL. A Crusher building is found at a distance of 55.9m and a Crusher office is at a distance of 53.9m. The high hazard zone is at a distance of 4.52 km and the medium hazard zone is at a distance of 241m. The cluster certificate dated 28/12/2023, states that there are no working quarry within 500m radius. **Based on discussions, the Committee decided to direct the project proponent to submit a sworn affidavit stating the following:**

1. **The mined-out land will be brought back immediately as cultivable land after each mining phase.**
2. **Detailed drainage plan**

Item No.10 Environmental Clearance for the Excavation of Ordinary Earth of Sri. Althaf K A, for an area of 99.95Ares at Block No. 27, Re- Sy No. 162 in Kizhakambalam Village, Kunnathunad Taluk, Ernakulam District. (SIA/KL/MIN/466642/2024)

As invited the project proponent Sri. Althaf K A and RQP Sri. C. Balaraman were present. The RQP made the presentation. As per the application, the total mineable reserve is 66,406 MT. The project cost is Rs. 20 lakhs. The life of mine is 1 year. The depth to water table is 10-15m bgl. A crusher is located at a distance of 19.0m. The nearest house is located at a distance of 36m. The highest elevation of the proposed area is 58m above MSL and lowest elevation is 39m above MSL. The high hazard zone is at a distance of 26 km and the medium hazard zone is at a distance of 19.7 km. The Committee observed that there is another proposal (SIA/KL/MIN/467076/2024) adjacent to the proposed site. **Based on discussions, the Committee observed the following shortcomings and decided to entrust Dr. K. Vasudevan Pillai and Dr.N. Ajithkumar for field inspection and report.**

1. Comprehensive EMP considering the adjacent project (SIA/KL/MIN/467076/2024).
2. Latest worker order and details of end users with total requirement.
3. Consent from the owner of the crusher unit and the nearby house owner

Item No.11 Application for Terms of Reference (fresh ToR) for the Proposed Scientific landfill of Kerala Solid Waste Management Project (KSWMP) Local Self Government Department, Government of Kerala by Dr. Divya S Iyer, IAS , for an area of 25 acres (1,01,171.4 sq. m) at, Re- Sy No. 23/4, 23/3, 23/5, 7/5, 7/4, 6/4, 23/2pt, 22/4pt, 22/3pt, 7/3pt, 5/3pt, 6/2pt, 6/3pt, 6/1pt, 6/7pt in Ambalamedu, Vadavucode, Puthencruz village, Kunnathunadu Taluk, Ernakulam District. (SIA/KL/INFRA2/469934/2024)

The Committee examined the proposal for Scientific Landfill for KSWMP at Ambalamedu, Ernakulam district. As per the application, the total area is 25 acres (1,01,171.4 sq. m). The Project cost is Rs. 300 Crores. Mangalavanam Bird Sanctuary is located at a distance of 9.3km from the proposed area. A Protected area is found at 0.95 km. **Based on discussions, the Committee decided to recommend Standard ToR under category 7(i) “Common Municipal Solid Waste Management Facility” with the following additional studies:**

1. Detailed hydrogeological study incorporating water table contour, water table fluctuations and water quality variations.
2. Additional safeguards for sanitary landfill considering marshy or near marshy condition of the proposed site.

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

As invited the project proponent Sri. Siyad P. A. and RQP Sri. C. Balaraman were present. The RQP made the presentation. As per the application, the mineable reserve is 38,082 MT. The project life is 1 year. The project cost is 10 lakhs. The highest elevation of the proposed area is 54m above MSL and the lowest elevation is 40m above MSL. The depth to water table is 10-15m below ground level. A crusher is located at a distance of 19 m. The high hazard zone is at a distance of 25.9 km and the medium hazard zone is at a distance of 19.7 km. The Committee found that there is another proposal (SIA/KL/MIN/466642/2024) adjacent to the proposed site. **Based on discussion, the Committee observed the following shortcomings and decided to entrust Dr. K. Vasudevan Pillai and Dr. N. Ajithkumar for field inspection and report.**

1. Comprehensive EMP considering the adjacent project (SIA/KL/MIN/466642/2024).
2. Latest worker order and details of end users with total requirement.
3. Consent from the owner of the crusher unit and the nearby house owner

The Committee decided to convene its 166th meeting from 11th -13th June 2024 (Physical Mode).

The Meeting ended by 5.00pm

Sd/-
Suneel Pamidi, IFS
Member Secretary, SEAC

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

LIST OF PARTICIPANTS:

Sl.No.	Name	20.05.2024
1.	Dr. R. Ajayakumar Varma (Chairman)	√
2.	Sri. S. Sheik Hyder Hussain	√
3.	Dr.A.Bijukumar.	X
4.	Dr.A.N.Manoharan	√
5.	Shri. M. Dileepkumar	√
6.	Smt. Beena Govindan	√
7.	Dr.C.C. Harilal	√
8.	Dr.K.VasudevanPillai	√
9.	Dr. MaheshMohan	√
10.	Dr.K.N. Krishna kumar	√
11.	Sri.V. Gopinathan	√
12.	Dr.A.V. Raghu	√
13.	Dr.N. Ajithkumar	√
14.	Suneel Pamidi(Secretary)	√