

MINUTES OF THE 136th MEETING OF THE SEAC KERALA HELD FROM 09th TO 11th JANUARY 2023 IN CONFERENCE HALL, STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, THIRUVANANTHAPURAM

The 136th meeting of the SEAC Kerala was held from 7th to 9th December, 2022. The meeting started at 10.00 AM on 09th November 2022. Dr. R. Ajayakumar Varma, Chairman, SEAC Kerala chaired the meeting. The Committee discussed the agenda items in detail and took the following decisions:

136.01 Confirmation of the minutes of the 135th SEAC meeting held on 7th to 9th December, 2022

Decision: The Committee approved the 135th SEAC minutes and found that under item No. 5 of Part 3, as per the latest Cluster Certificate dated 18.07.22 the total area consists of 4.3839 Ha and hence there is no Cluster Condition. Therefore the Committee decided to invite the proponent for a presentation.

136.02 Environmental clearance for the mining of building stone in Survey No. 143/1, 2,132/2B, 142/3-2, 3-3 at Maneed Village, Muvattupuzha Taluk, Ernakulam - Judgment dated 23-03-2021 WP(C) 7459-2021 - Regarding the Revalidation of EC (File No. 1159/EC3/2021/ SEIAA)

Decision: The committee examined the proposal and verified the documents submitted by the proponent. The Committee observed that as per the mining plan total area for excavation is 1.5565 Ha (Non-excavated area, 0.5378 Ha + 7.5m buffer zone 0.3919 Ha). The highest elevation of the lease area is 80m.MSL and lowest is 50 m. MSL. The depth to water table is reported as 10m bgl. The proposed rate of production for mine is 1,79,867.49 MT and life of mine is 9 years. The area falls in Survey No. 143/1, 143/2, 142/3-2 at Maneed Village, Muvattupuzha Taluk, Ernakulam. The original EC was for an area of 2.930 ha in Survey No. 143/1, 2,132/2B, 142/3-2, 3-3. **The Committee decided to entrust Dr. Mahesh Mohan and Dr. K N Krishnakumar for field inspection and report. The team shall also seek clarification regarding the discrepancy in the area shown in the original EC and the revalidation request.**

136.03 Environmental Clearance issued to Sri. George Kochuparambil, for the Building Stone Quarry Project in Re survey Nos. 354/4, 354/5, 355/1pt, 351/1pt, 328/5, 350, 352/1pt, Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala File No: 1137/EC/SEIAA/KL/2017- Revalidation

Decision: The Committee examined the documents submitted by the proponent and found that the Peak Particle Velocity and amplitude for a maximum charge per delay are within the limit as per the study report submitted by the proponent. This study was done as directed by SEAC to verify the veracity of the complaint submitted by the Pallavi Nagar Residents Association members. **The Committee decided to adhere to the earlier decision in 131st meeting with following specific conditions:**

1. The buffer zone should be maintained with a uniform width of 7.5 m and it should be used for developing and maintaining thick green belt.
2. The garland canal, silt traps and outflow channel should be maintained periodically by cleaning and desilting and geo-tagged photographs of the process should be included in the half-yearly compliance report
3. The impact of vibration due to blasting on the nearest houses and other built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.
4. NONEL short delay detonator may be used for initiation.
5. Blasts should be conducted by a blasters or mining mate certificate holder only.
6. To restrict fly rock to within 10m, muffling arrangements should be made.

136.04 Environmental Clearance issued to the Building Stone Quarry Project of Sri. M.K. Rasheed in Sy. No. Sy. No. 249, 249/1, 249/2, at Kondoor Village, Meenachil Taluk, Kottayam District – Revalidation Documents Received [File No: 793/SEIAA/KL/1851/2015]

Decision: The committee examined the proposal and verified the documents submitted by the proponent as directed by 134th SEAC and found that the proposed area is in medium hazard zone. **The Committee decided to entrust Dr. K N Krishnakumar & Dr. Mahesh Mohan for field inspection and report. The team shall specifically address the landslide proneness of the site and surrounding areas.**

136.05 Environmental Clearance for the Proposed Group Housing Project, GREEN VISTAS – “PRAKRITI” at Re-survey No.359/3, of Kakkanad village, Thrikkakara Municipality, Kanayanur Taluk, Ernakulam District, Kerala by Mr. Saurabh Gulechha, Chief Operating Officer, M/s Green Vistas Infrastructure Projects. (File No. 1189 (A)/EC2/2018/SEIAA)

Decision: The Committee examined the clarification submitted by the proponent. The committee discussed the clarification and observed that as per the direction of the 113th SEIAA meeting, the committee approved the ToR and the proponent submitted damage assessment along with remediation plan. There has been a discrepancy in the plan submitted by the proponent and the committee sought revised plan. The committee examined the revised plan submitted by

proponent and decided to place the following aspects before the seek Authority and seek further directions:

1. The penalty that has to be paid by the proponent is 1% as violation was not declared *suo moto*. However the proponent disagreed with this but has not submitted any proof in support of their claim. The violation was intimated by SEIAA on 02.03.2013 as part of the appraisal of the application submitted by the proponent on 13.08.2012 to get EC. The proceedings after violation were issued on 07.09.2015.
2. The remediation plan submitted is for the project cost of Rs.16.64 Cr as against the original project cost of 84.63 Cr. The proponent replied that the project cost to be considered for remediation plan is only to the 3rd (12.07Cr) and partially to the 4th block. The proponent has eliminated Block 1 & 2 from the purview of violation of EC notification. SEIAA may direct whether the committee shall appraise the project considering that the violation is pertaining only to the 3rd & 4th Blocks or to all the blocks, if necessary after seeking legal opinion in this regard.
3. The proponent is of the view that the Damage Assessment need not be done with respect to the total area as Block 1 and 2 is not under the provisions of violation of EC. As per the Judgment dated 11.06.21, the Hon'ble High Court of Kerala, disposed of the writ petition directing respondents 3 and 4 to dispose of finally the application of the petitioner for Environmental Clearance, as directed in Ext.P24 decision of the Expert Appraisal Committee at the Central level, in accordance with the law, having regard to the present stage of construction, as expeditiously as possible, without waiting for the culmination of the proceeding contemplated against the petitioner for violation of the EIA notification. It is made clear that the petitioner will not be entitled to resume the work of the project before the direction aforesaid is complied with.

136.06 Environmental Clearance for the Building Stone Quarry Project in Survey Nos. 138(pt), 836(pt), 837(pt), 839(pt), 847(pt) of Killimangalam Village, Thalappilly Taluk, Thrissur District, Kerala. – Judgment dated.29.09.2021 in WP(C) No.20472/2021 - Revalidation of EC – (File No.855/SEIAA/EC12979/2015)

Decision: Environmental Clearance was issued on 18.05.2017 by SEIAA to M/s Chelakkara Granites for an area of 4.6929Ha for a period of five years. As per the Letter dated 21.03.2022 from Integrated Regional Office, MoEF & CC, Bangalore M/s.Chelakkara Granites did not submit any half yearly compliance report to MoEF, which was a serious non-compliance of the provisions of the EIA Notification 2006 and hence their request for issue of Certified Compliance Report (CCR) was rejected. In the circumstance, the 126th meeting of SEAC held on 11th to 13th April 2022 decided to recommended cancellation of the EC and issue stop memo urgently and initiate violation procedure. Further, the Proponent vide Letter dated.25.04.2022 requested to consider the proposal for EC revalidation as they have received the ‘Satisfactory’

Certified Compliance Report from MoEF & CC, Integrated Regional office, Bangalore vide E-File No.12.1/SEIAA/2017-18/31/KER/136 dated.25.04.2022. The Proponent also submitted other documents required for revalidation. As entrusted by the 128th meeting of SEAC held on 23rd to 24th May 2022, field inspection was conducted on 17.06.2022. The 131st meeting of SEAC held on 05th, 06th, 19th & 20th August 2022 verified the documents and discussed field inspection report and observed that the project is eligible for revalidation of EC for a project life of 10 years from 18.5.2017 after satisfactory compliance of 9 conditions and directed the proponent to submit the compliance report with adequate number of photographs and other proof, if any. **The Committee verified the report of compliance to the SEAC direction and the CCR dated 25.4.2022 decided to recommend that the project is eligible for revalidation of EC for a project period of 10 years from the date of the original EC (18.05.2017) subject to the following additional specific conditions in addition to the specific and general conditions stipulated in the original EC i.e 18.05.2017.**

1. Buffer Zone with a width of 7.5m should be maintained all around the Project area
2. Green belt along Buffer Zone should be strengthened by planting vegetation of indigenous species and nurtured regularly
3. Garland Canal with silt traps, siltation pond and outflow channel should be provided considering the entire project area
4. More number of avenue trees should be planted and nurtured
5. The cleaning and desiltation of silt traps, siltation pond and outflow channel should be done periodically and the geo-tagged photographs of the process should be included in the HYCR.
6. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration
7. Overburden should be stored at the designed place and retaining/protective wall should be provided for the topsoil and overburden storage
8. No mining should be done where the slope is more than 45⁰.

136.07 Environmental Clearance for the building stone quarry project in Sy. No. 3, 21/1, 21/2, 22, 23, 24 of Kannamangalam Village, Kannamangalam Panchayat, Thirurangadi Taluk, Malappuram District, Kerala by Sri. C.K. Abdul Azeez, Managing Director, M/s Grand Stone Metals Pvt. Ltd. – Judgment in WP(C) No. 26432 of 2020 - Revalidation of EC- (File No.906/SEIAA/EC1/ 3538/2015)

Decision: The request for revalidation of EC for the project was presented before the 118th meeting of SEAC held on 01st to 03rd February 2021. A field inspection of the site was carried out on 16.8.2021. The 124th meeting of SEAC held on 24th to 27th August 2021 decided to recommend revalidation of EC with project life of 22years from the date of original EC subject to compliance of certain directions. The 112th meeting of SEIAA held on 14th, 15th & 16th September 2021 decided to consider the EC revalidation after getting the compliance of the

observations made by the SEAC and after conducting a field inspection to confirm the compliance of observations. The proponent submitted the documents on 16.06.2022 partially and as decided in the 130th meeting of SEAC held on 04th to 06th July 2022 field inspection was conducted on 30.11.2022 for reverification of the compliance to SEAC directions. The Committee verified the documents submitted and discussed the field inspection report and decided to seek the following documents

1. Revised Scheme of Mining or Certificate from the Mining & Geology department regarding the resource extracted so far and balance resource available for extraction.
2. Geo-tagged photographs showing the strengthened fencing all around the project area and gates provided for entry and exit passages.
3. Geo-tagged photographs showing rectification of bench height and maintenance of 45° slope.

136.08 Environmental Clearance for the Quarry Project in Sy. No. 611/1A-303-147 at Keerampara Village and Panchayath, Kothamangalam Taluk, Ernakulam District, Kerala by Sri. Reji Kuriakose and Smt. Jeeva Reji
File No: 144/SEIAA/KL/2745/2013 (FIR received)

Decision: The Committee examined the proposal for mining from an area of 3.2537Ha and observed that the application for EC was rejected vide proceedings dated 13-09-2017. As per the orders of Hon,ble NGT, the SEIAA directed the SEAC to reappraise the proposal. Accordingly, the 133rd meeting of the SEAC held during October 11-13, 2022 heard the authorized person of the Proponent and directed him to submit hearing note, copy of valid NOC and the proof of application submitted to the National Board of Wildlife for wildlife clearance. The Proponent submitted hearing note and proof of application to NBWL. The NOCs submitted dated 18-5-2012 and 1-3-2013 are found valid for a period of 12 years, but the NOCs dated 20-12-2010, 18-10-2010 and 23-06-2011 are not found valid. The approved mining plan is for the proposed project area of 3.2537 Ha whereas the NOC is valid only for 1.5714 Ha. As per the field inspection report dated 29.12.2022, part of the project area falls in the landslide hazard zone of medium category and the area where there is no valid NOC is almost mined out without providing benches. There is also a building within 50m distance of the proposed site boundary. On enquiry, the Proponent stated that the mining was done with a Permit but they failed to provide proof. **Based on discussions, the Committee decided to place the following recommendations before the Authority.**

1. It is suspected that the Proponent has conducted illegal mining in the area for which there is no valid NOC without observing stipulated mining and environmental safeguards. The proponent claimed that the mining is done with a permit from the Mining & Geology Department, but failed to submit any proof. Therefore, the Mining & Geology Department may be addressed to to examine whether illegal mining has taken place in the proposed area or not.

2. If it is found that illegal mining has taken place, the authority may direct to take action against the Proponent for violation of EIA Notification.
3. The mining plan submitted is for 3.2537 Ha whereas the NOC is valid only for 1.5714 Ha. Therefore, the Proponent may be directed to submit revised mine plan applicable to the area for which he obtained valid NOC.
4. The Proponent may be directed to comply with the distance norm while preparing the revised mine plan and also incorporate appropriate drainage plan, overburden storage facility, revised CER and EMP, recent cluster certificate, revised project cost estimate and recent certified survey map from the revenue authorities in the proposal.

136.09 Complaint against quarrying operations owned by Mr. Ashly John Tharakan, Madaparambil House, South Mazhuvannur P.O., Mazhuvannur Village, Ernakulam, Kerala –Complaint submitted by Shri. K.M. Mathew– Reg. (File No. 290/EC3/2021/SEIAA)

Decision: Mr. Ashly John Tharakan was issued EC vide order of DEIAA, Ernakulam dated 23-01-2018 for building stone mining project in an area of 0.5565 ha for 3 years and validity of EC expired on 22-01-2021. Based on a complaint from Shri. K.M. Mathew, the MoEF & CC, New Delhi directed its Integrated Regional Office (IRO), Bangalore to submit a factual report to the SEIAA. Accordingly, the IRO informed SEIAA that there is 10 non-compliance of the conditions stipulated while issuing EC and directed SEIAA to take necessary action against the Proponent and submit an action taken report. The 111th meeting of SEIAA, held on 17th & 18th August 2021 directed the Project Proponent to attend all the observations made by MoEF & CC, Regional Office, Bangalore and submit the relevant pending documents within one month and submit a compliance report to SEIAA and also address the Mining & Geology Department. The 113th SEIAA meeting held on 19th & 20th April 2022 directed SEAC to conduct a field visit after 4 months to verify the compliance of the observations made by MOEF&CC Regional office Bangalore and report to SEIAA for further action. Based on the decision of the 130th meeting of SEAC held on 4th to 06th July, 2022, a field inspection was carried out on 28.11.2022

No	Non compliance reported by IRO, MoEF	Compliance
1	Environment Management Cell (EMC) details are not submitted (General condition No. ii)	Not complied
2	Suitable avenue tree saplings are not planted (General condition No.3).	Not complied
3	Water sprinklers are not installed at quarry area (General condition No.5).	Not found complied on the day of visit
4	Copy of mine closure plan not submitted (General condition No.6).	Not complied
5	Details of CSR commitment not submitted (General condition No.8).	Submitted

6	Required height and width of benches are not followed (General condition No.17).	Partially complied
7	Copy of newspaper advertisement not submitted (General condition No.35)	Submitted
8	Half yearly compliance reports not submitted regularly to this office (General condition No.37,42 & 45)	Submitted for December 2018, June 2019, December 2019, June 2020, December 2020
9	Copy of NOC from Periyar Valley Irrigation not submitted (Specific condition No.1)	Submitted
10	Copy of Environmental auditing not submitted (Specific condition No.8).	Not submitted

The Complainant raised 8 complaints and the field level observations are given below.

No	Complaint raised by the Complainant	Fiel level observations
1	No sprinklers installed and used in the project site to control dust emissions	The quarry was not operational during the site visit. No sprinklers were found installed in the site. However, there were dismantled spriklers kept in the permises.
2	No control measures on noise pollution	Noise pollution control measures were not observed during the day of site visit.
3	Access roads to the quarry not tarred to control dust emissions	Access road found is tarred
4	Mats to reduce fly rocks blast not provided	No mats are found on the day of site visit though the proponent claimed usage of mats during blasting.
5	Acoustic enclosures not provided to reduce sound amplification in addition to the provisions of green belt	The DG sets and crusher units are found provided with acoustic enclosures. Avenue trees are found only on one side of the road. Trees are found planted in the buffer zones.
6	Barrier of 3 m height with tin sheet not provided along the periphery of the quarry	The proponent has provided barbed wires fencing as per the EC
7	Quarry operation beyond permitted time limit	Quarry was not operational during the site visit.
8	The functioning of quarry has caused substantial damage to aqueduct, damage to houses upto 200mts, depletion of ground water in the locality, environmental pollution etc.	No such damages noticed during the site visit.

Based on discussions, the Committee decided to place the above observations before the Authority and recommend seeking clarifications on the non-compliances. Based on the merit of the clarifications, action may be taken to assess the environmental damage and subsequent actions.

136.10 **Rectification of Geo co-ordinates in the EC issued from DEIAA, Palakkad to the Building Stone Quarry Project of Sri.K.M.Jalal in Re.Sy.No.35/2 in Erimayur 1 Village, Alathur Taluk, Palakkkad District (File No.2929/EC1/2022/SEIAA)**

Decision: The Committee examined the proposal and observed that prior to field inspection it is desirable to hear the proponent and examine all the related documents submitted to get EC from DEIAA, Palakkad. Therefore, **the Committee decided to invite the proponent for presentation along with all the documents submitted before DEIAA to obtain EC. Concurrently, The SEIAA Secretariat shall collect and provide a copy of the file pertaining to issuance of EC No. E/2703/16/DEIAA dated 29.07.2017.**

136.11 **Environmental Clearance for the quarry project in Sy. No. 324/4(P), 324/5(P) & 325/15(P), Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Cement Bricks & Allied Industries and 317/2, 317/4 & 324/5(P) Pattimattom Village, Kunnathunadu Taluk, Ernakulam, for M/s. Kizhakkambalam Granites Kerala by Shri. Paul Varghese, M/s. Cement Bricks & Allied Industries / M/s. Kizhakkambalam Granites- Judgment in WP (C) 18778/2020 filed by M/s. Cement Bricks & Allied Industries - Revalidation of EC (File No. 724/SEIAA/KL/6074/2014)**

Decision: The Committee examined the proposal along with the direction of the 120th meeting of the SEIAA to assess the Environmental Damages caused due to the violation of EC conditions and inform the same to Department of mining and Geology to recover the same along with other penalties under KMMCR 2015. The Committee decided to entrust **Dr. Mahesh Mohan & Dr. K N Krishnakumar to assess the environmental damages based on field inspection and report.**

136.12 **Environmental Clearance for the Building Stone Quarry Project in survey Nos.79/2, 80/1A-02, 80/1A-03, 80/1A-04, 80/1A-05, 80/1A-06, 80/1A-07, 80/1A-08, 80/1A-09, 80/1A-10, 80/1A-11, 80/1A-12, 80/1A-13, 80/1A-14, 80/1A-15, 80/1A-16, 80/1A-17, 80/1A-18, 80/1A-19, 80/1A-20, 80/1A-21, Arakuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala by Mr. Shans Paul, Managing Director, M/s Hanna Rock Products (P) Ltd.- Revalidation**

File No: 1168/EC/SEIAA/KL/2017 (Presentation)

Decision: As invited, the Proponent, Sri. Shans Paul, and Consultant Mr. Jomon M.C on behalf of M/s Environmental Engineers & Consultants Pvt. Ltd were present. The Consultant made the presentation. The Committee heard the presentation and observed the necessity of maintaining 50m buffer between the boundary of the project site and the crusher unit. The Committee also noted the following shortcomings:

1. Legible recent certified survey map from the village office showing distance to all the built structures within 200m from the project boundary is not submitted
2. The reply from the District Collector on the complaint of Mavilakuttyis not received

The Committee decided to entrust Dr. K N Krishnakumar & Dr. Maheh Mohan for field inspection and report.

Additional Agenda

136.13 Application for Revalidation of EC for the proposed quarry project in Re Survey No. 35/3, 35/2 part, 41 part in Erimayur-1 Village, Alathur Taluk, Palakkad District, Kerala by Mr.Biju, Managing Partner, M/s Sahara Granites - (File No. 146/SEIAA/KL/2747/2013)

Decision: Environmental Clearance was issued on 05.12.2014 to Sahara Granites for an area of 9.4778 Ha for a period of five years. The proponent vide e-mail dated 20.01.2021 requested to consider the project for taking a decision on the project life equivalent to the life of mine of 18 years from 2014. The proposal was presented in the 118th meeting of SEAC and field inspection was conducted on 12.7.2021. The 124th meeting of SEAC held during August 24-27, 2021 recommended to the SEIAA that the project is eligible for revalidation of EC order with a project life of 18 years from the date of issuance of the first EC order subject to review every five years subject to the satisfactory submission of compliance of four conditions stipulated by SEAC within six months. The 112th meeting of the SEIAA held during September 14-16, 2021 decided to consider the EC revalidation proposal recommended by SEAC subject to six conditions. The proponent submitted the documents and field inspection for verification of the compliance was conducted on 22.11.2022. Though the life of mine was stated as 18 years in the EC, as per the Mining Plan dated 28.2.2018, the life of mine was given as 7 years only. The Committee examined the proposal and discussed the field inspection report and decided to recommend that the project is eligible for revalidation of EC for a project period of 7 years from the date of the original EC (05.12.2014) subject to the specific and general conditions stipulated in the original EC.

136.14 Environmental Clearance issued to the quarry project in Sy.No.153/2, 154/Pt in Morayur Village, Kondotty Taluk, Malappuramm District owned by Sri.Ummer Kutty.K, M/s.Morayoor Granites Pvt. Ltd. – Order of NGT in Appeal No.30 of 2020 filed by Sri.Mohammed.O (File No.1239/EC2/2019/SEIAA)

Decision: Environmental Clearance dated 06.08.2020 was issued to the granite building stone quarry project for a period of five years. The project is to extract mineable reserve of 2,04,891 MT of building stone from an area of 0.9994 Ha located at elevation of varying from 110m to 165m above MSL falling in the lower middle slope of Arimbra Mala with elevation ranging from 33m to 337m. The proposed mine life is 5 years and the nearest residence is at a distance of 160m. As per the Landslide Hazard Zonation Map, the site is fully located within the Medium Hazard Zone. Hon'ble NGT. Hon. NGT vide its order dated 24.12.2021 suspended the EC for a period of 7 months and remitted it back to SEIAA with directions. As directed by the Hon'ble NGT, the Proponent was prohibited from carrying out mining activity vide letter dated 10.01.2022. The 113th meeting of SEIAA held during April 19-20, 2022 directed SEAC to comply with the directions of the Hon'ble Tribunal and also verify the veracity of the mass petitions received during the field inspection with notice to them. The 128th meeting of SEAC held during May 23-24, 2022 directed the proponent to submit the required details within one month and the proponent submitted the documents on 06.07.2022. As decided in the 132nd meeting of the SEAC held during September 13-15, 2022 a field inspection was carried out on 2.10.2022. Neither the Proponent nor the Consultant was available at the site during the field inspection though information was provided in advance. The Committee discussed the field inspection report and evaluated the compliance to the directions of Hon'ble NGT as follows.

1. Consideration of the details submitted by the PP as per the directions of 94th SEAC:

- The baseline information failed to provide critical site-specific information pertaining to hydrology, land environment and soil which are extremely important aspects in a terrain with steep to very steep slope and falling in the landslide hazard zone.
- The environmental management plan submitted is not site specific to mitigate the adverse impacts predicted considering the site characteristics.
- The reworked flora and fauna report is satisfactory
- The CER was to be recorked in consultation with the local government, but there is no valid proof that the reworked CER is discussed with the Local Government.

2. Study regarding the flora and fauna and the biological environment available in that area and the mitigation plan for protecting the same

- The study report on the flora and fauna and the biological environment does not indicate the presence of any biodiversity rich habitat and endangered or endemic species.

3. Specific recommendations based on the above two aspects

- No adequate and site-specific terrain information has been provided by the Proponent to arrive at a conclusion that the terrain is safe for intensive and intrusive activity such as that of mining. The field investigation report by the SEAC team dated 20.4.2019, however, indicated possible land instability based on hydrologic, geologic and terrain characteristics. Though the field investigation of SEAC team on 10.1.2020 stated that there was no reactivation of ground subsidence or new failures even after intense rainfall of the year 2019, it can not be considered as adequate reason to decide the site as a safe zone with respect to land stability.

4. Specific recommendations and reasons for acceptance of the report of the slope stabilization study

The Proponent has submitted a Slope Stability Report dated 3.3.2020 prepared by Mr. S. Mahesh for M/s. Prime Technology Services. The report is not acceptable due to the following reasons.

- There is no information available on the credentials or competence of the organization. There are also no published papers, reports or works available to assess the competence of Mr. S. Mahesh (Qualified Person recognized by the Directorate of Mining & Geology Department for preparation of Mine Plan) for the preparation of slope stability report.
- The report stated that there are four factors that affect slope stability. It misses out the important factors such as rainfall characteristics, hydrology, soil thickness, vegetation characteristics etc. Even the four factors mentioned are not studied with field level data.
- The study is confined only to the site proposed for mining. But stability of the land depends on all the factors pertaining to land stability applicable to the entire length of the slope of the hill with an altitudinal variation of 33m to 337m above MSL. The slope characteristics of the entire length of the slope of the hill, including break-in-slope regions are extremely important to be assessed, but it is not done in the report.
- The structural geology characteristics of the site and its surrounding region is not found considered in the study. The lithological aspects, weathering characteristics of rocks, overburden thickness, top soil thickness, soil characteristics etc are not found studied based on field level data.
- The hydrologic and hydrogeologic characteristics are important factors that are to be studied for assessing the land stability. However, these are not found have studied with field level data.

5. Further study, if any, to be recommended by the SEAC

- The proposed site is located on the lower middle portion of an extensive slope of an isolated hill ridge with elevation varying from 33m to 337m above MSL. The site is located between elevation 110m to 165m above MSL on the eastern side of the hill ridge

just below the Mini Ooty view point, a local tourist destination. The slope is steep to very steep with intermittent break-in-slope and thick soil cover at places. The site falls in the moderate landslide hazard zone. The vegetation is generally thick and there are patches of rock exposures. The rocks are jointed in nature. The hydrologic and hydrogeologic detailing done by the SEAC team in 2019 reported signs of subsidence, excessive underground seepage and possibility of underground tunnel. All these point towards the fact that the stability of the slope is not adequate enough to support any high intensity activities such as mining. Further, the density of population in the downstream area of the proposed site is also very high, who will always be on threat and hence it is desirable to discourage the proposed project. Therefore, in the given environmental scenario, it is difficult to have a conclusive study within the scope of the relatively small quarry project, in the given terrain.

The Committee also examined the details submitted by the proponent vide letter dated 1.7.2022 as per the directions in the 128th meeting of SEAC held during 23-24, May 2022. The Proponent has suggested gabion wall, drainage management and plantation to avoid soil slope failure. No detailed plan and specifications of the work plan has been submitted. While drainage management and vegetation help to avoid soil slope failure to a considerable extent, these are not adequate precaution for the area with significant terrain instability as has been the situation prevailing in and around the proposed site. The Proponent has also not provided appropriate response to the complaints raised by the Arimbra Mala Samrakshana Samithi.

Based on detailed discussions, the Committee decided to appraise the SEIAA that it is not desirable to permit mining in the proposed site from the point of view of precautionary principle. This is due to the fact that the stability of the slope is not adequate enough to support high intensity activities such as mining in the site located in a hazard zone with extensive slope of steep to very steep category with intermittent break-in-slope, deep soil cover and hydrologic heterogeneities. Further, the density of population in the downstream area of the proposed site is also very high, who will always be on threat of land failures or debris flow in case of a slope failure. Therefore, in the given environmental scenario, it is desirable to discourage the proposed project in the suggested site.

PART 1

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/140439/2020 , 1821/EC3/2020/SEIAA

Environmental Clearance for Laterite Building Stone Mining project area of Sajimon Joseph for an area of 0.0898 Ha.of land in, Survey nos. 353/7. Manjoor Village, Vaikom Taluk, Kottayam District, Kerala (Presentation)

Decision: As invited, the Proponent, Mr. Sajimon Joseph, and the RQP Mr. Korah A G were present. The RQP made the presentation. The committee heard the presentation and observed that the depth of mine is 2m, mineable reserve of laterite is 4490 MT and life of mine is one year. Based on discussions, the Committee decided to recommend EC for a period of One year as per OM dated 24.6.2013, pertaining to brick earth or ordinary earth up to an area less than 5 Ha and with 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 a maximum depth of 2m below general ground level at the site .
3. The excavation activity should be restricted to 2m above the ground water table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area.
5. The excavated pit should be restored by the project proponent for useful purpose.
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap
7. Measures should be taken to prevent dust emission by covering of excavated earth during transportation.
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth.
9. Workers/labourers should be provided with facilities for drinking water and sanitation.
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.
11. A minimum distance of 15m from any civil structure should be kept from the periphery of the project area.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented as per norms
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

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

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

Decision: As invited, the Proponent, Mr. K V Joy, and the RQP, Mr. Thambu Cheriyan with authorization letter were present. The RQP made the presentation. The Committee heard the presentation. The Committee observed that the total mineable reserve is 895825 MT with production plan of 65295 TPA and Mine life is 10 years. The nearest house is at 157 m from the boundary of the site and depth to watertable is 15 m below the ground level. The field inspection was conducted on 22.10.22. Based on discussions, the Committee decided to direct the proponent to submit the following additional documents/details:

1. Geotagged photographs to prove that the house located at 25m from the project boundary is demolished as agreed by the Proponent.
2. Environmental sensitivity data as envisaged in Form 2 of Privesh
3. Over burden management details including storage location and protection measure
4. Recently certified legible survey map from the Village Office.
5. Revised CER as per norms and considering the life of mine.
6. Revised EMP considering the life of mine and also incorporating CER
7. Revised Project Cost
8. Hydrological and hydrogeological characteristics of the site and their influence on land stability.
9. Consent letter from the owner of the abandoned quarry proposed to be used for extracting water.

**3. SIA/KL/MIN/142845/2020 , 1409/EC2/2019/SEIAA
Environmental Clearance for Granite Building Stone over an extent of 1.3990 Ha at
Re Survey Nos. 355/2, 355/5 (Block No. 26) of Muthuthala Village, Pattambi Taluk,
Palakkad District, Kerala proposed by Mr. V V Divakaran (Presentation)**

Decision: As invited, the Proponent, Mr. V V Divakaran, and the RQP, Mr. Nazar Ahmmed were present. The RQP made the presentation. The total mineable reserve is 2,79,190 MT (27,919 TPA) and the life of mine is 10 years. The depth to watertable is 14 m below the ground level and the nearest habitation is 1 km. The Peechi –Vazhani wildlife sanctuary is 26 km from the proposed area. The field inspection was conducted on 02. 06. 2022. The committee heard the presentation, discussed the details and decided to direct the proponent to submit the following additional documents:

1. Reworked PFR for entire life of mine.
2. The land use data as envisaged in Form 2 of Parivesh
3. Compensatory afforestation plan along with geo-coordinates of the proposed site and geotagged photographs of the site
4. Revised drainage plan
5. Revised CER as per norms and considering the life of mine.
6. Revised EMP incorporating site-specific mitigation measures and for the entire life of mine

7. Revised project cost considering the life of mine
8. Recently certified legible survey map from the Village Office

4. **SIA/KL/MIN/160638/2020 , 1721/EC2/2020/SEIAA**

Environmental Clearance for Building Stone Quarry of Mr.S.Sundarasan over an extent of 0.7678 Ha. Re Survey no.114/2-1,115/6-4-2,113/6,113/4-2,113/13, of Puthoor Village, Kottarakkara taluk, Kollam District, Kerala (Refer back from 120th SEIAA)

Decision: The Committee perused the decision of 120th SEIAA which highlighted that the total mineable reserve is recorded as 190938 MT in the field inspection report and the same in mining plan is 264060 MT. The Committee noticed that the total mineable reserve in field inspection report is a typographical error as the same field inspection report recorded the annual production as 66015 TPA for a mine life of 4 years from which the mineable reserve can be worked out as 264060 MT. Therefore, the Committee decided to place the above clarification before the SEIAA and request to consider the recommendation of SEAC in the 133rd meeting with a correction in total mineable reserve as 264060 MT.

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

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

Decision: As invited, the Proponent, Sri. Abdul Nazar P, and RQP, Mr. V K Roy with were present. The RQP made the presentation. The total mineable reserve is 5,41,302.60 MT (54,130.26 TPA) and life of mine is 10 years. The medium hazard zone is located at 660 m the high hazard zone at 21.55 km. The Committee heard the presentation and observed the following:

- The present proposal is for a fresh granite quarry. The region forms part of a hillock with an altitude ranging from 80 - 145m amsl. As the project site is moderate to steep sloping, adequate drainage facilities in the project site are to be ensured.
- The area is noted to have thick natural vegetation and the loss of vegetation owing to quarry operation should be compensated.
- Another quarry was found functioning in the present project area, which was having an EC issued by SEIAA for the same proponent for an extent of 3.318 Ha. (No. 756/SEIAA/KL/331/2015 with validity till 29/05/2021 and extended validity till 29/05/2022). This quarry was found to function till recently, without adequate compliance to the EC conditions, especially on fencing, sign boards, garland canal, silt trap, retaining walls, green belts, and CER implementation. Even the mined-out area is noted to be different from the area proposed in the original EC.

- The amount earmarked for CER activities was not supplemented with consultation letters from beneficiaries.

Therefore, the Committee decided to direct the Proponent to submit the following details:

1. Explanation for the noncompliance of conditions stipulated in the EC No. 756/SEIAA/KL/331/2015 with validity up to 29/05/2021 and extended validity up to 29/05/2022.
2. Revised drainage plan for the entire project area.
3. Compensatory afforestation plan with geo-coordinates and areal extent of the proposed site, number and species of plants proposed for afforestation and geo-tagged photographs of the site.
4. Details of CER activities for the stipulated amount, supported by a certification from beneficiaries.
5. Depth to water table in the nearest dug well to the site along with geo-coordinates of the well as well as distance to the well from the project boundary
6. Water requirement, source of water, safe yield of the source and water management plan.
7. Site specific EMP with budget for 10 years.
8. CER and EMP submitted does not corresponds with project cost.

The Committee also observed that the mined out area is different from the area for which EC was issued and there seems to be illegal mining and hence the Proponent seems to have done a violation. **Therefore, the Committee decided to recommend to SEIAA to seek a report from the Mining & Geology Department on the following aspects.**

1. Whether the Proponent resorted to illegal mining or not making use of the EC No. 756/SEIAA/KL/331/2015 with validity up to 29/05/2021 and extended validity up to 29/05/2022.
 2. Whether the new mining plan can be used for the appraisal of the current project proposal.
- 6. SIA/KL/MIN/168428/2020 , 1988/EC2/2022/SEIAA
Environmental Clearance for Granite Building Stone Quarry of Mr. Safarulla K. having an area of 1.0289 Ha in Re-Sy. No- 318/1D of Vorkady Village, Manjeshwaram Taluk, Kasaragod District of Kerala. (ADS Received)**

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The mineable reserve is 4,02,835MT and the life of mine is 12 years. The nearest built structure is reported at 97m and the depth to water table is 35m bgl. Based on discussions, the Committee decided to recommend EC for the life of mine of 12 years with the following specific conditions, in addition to general conditions:

1. Development of green belt using species recommended in the biodiversity assessment report should be initiated prior to the commencement of mining.

2. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
3. 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. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).
5. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.
6. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
7. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
8. Adequate energy conservation measures should be implemented including solar power installations
9. 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.

7. **SIA/KL/MIN/171945/2020 , 1844/EC1/2020/SEIAA
Environmental Clearance for the proposed Granite Building Stone Quarry (0.9905 Ha), O S Granites of Sri. Sajeew Kumar in resurvey numbers Re - Survey Nos. 244, Puthucode Village, Alathur Taluk, Palakkad District, Kerala (Presentation)**

Decision: As invited, the authorized person Sri. Ajanthakumar with authorization letter from the Proponent, and RQP, Mr. V K Roy were present. The RQP made the presentation. The total mineable reserve is 2,20,600 MT and mine life is 5 years. The depth to watertable is reported as 20 m below ground level and the nearest habitation is 305m. The Vazhani Wildlife Sanctuary is located at 5.6 km away from the Western side of the area. The area does not fall in any landslide hazard zone. The field inspection was conducted on 27.09.2022. Based on discussions, the Committee decided to direct the Proponent to submit the following additional documents:

1. Revised CER as per the norms in the OM No F.No.22-65/2017-IA.III dated 30th September 2020.
2. Proof of application submitted to NBWL for wildlife clearance
3. Revised EMP incorporating site specific mitigation measures and the revised CER.

8. **SIA/KL/MIN/195590/2021 , 2041/EC1/2022/SEIAA**

Environmental Clearance for Granite (Building Stone) Quarry of Sri. Rajendran Nair for an area of 1.1862 Ha in Re-Survey Nos. 233/10, 233/11, 233/12, 233/13, 233/14, 233/15, 233/16, 233/22, 233/23, 234/4, 234/6, 234/7, 234/8 & 234/36 in Pullampara Village, Nedumangad Taluk, Thiruvananthapuram (Presentation)

Decision: As invited, the Proponent, Sri. Rajendran Nair, and RQP, Mr. V K Roy were present. The RQP made the presentation. The Committee heard the presentation. The total Mineable reserve is 2,31,149 MT and mine life is 8 years. The depth to watertable is 10m below ground level. There is an old crusher at 12m from the boundary of the project area and the distance to the nearest building is reported as 50.5m. The project area does not fall in any landslide hazard zone and there are no wildlife sanctuary within 10km. The field inspection was conducted on 27.09.2022. Based on discussions, the Committee decided to direct the Proponent to submit the following additional details:

1. Commitment from the Proponent that he is willing to shift the crusher unit located at a distance of 12m from the boundary of the proposed site to a safe stipulated distance as it is not desirable to have such a structure in the close proximity.
2. Depth to water table in the nearest wells and geo-coordinates of the wells monitored.
3. Legible Recent Survey Map certified by the Revenue authorities, showing all built structures situated within 200 m radius of the proposed site including own buildings and other built structures.
4. Map showing location of OB dump site with geo-coordinates in the lower side of proposed site with proposal for side protection measures.
5. Geotagged photographs showing the concrete boundary pillars of 5 feet high fixed firmly on the ground.
6. Compensatory Afforestation Plan for compensating the non-feasibility of green belt in some portion of the buffer zone and also for the trees removed from the site along with geotagged photographs of the proposed location and the area earmarked for the purpose and its geocoordinates.
7. Plan for protection of thick soil column at the top portion of the proposed site below the buffer zone.
8. Plan for protecting/safeguarding the steep vertical phase of the abandoned quarry encroached into the government land to prevent accidents.

9. SIA/KL/MIN/221257/2021 , 1945/EC1/SEIAA/2022

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri. Ramis Abdul Hakeem for an extent of 0.7405 Ha in Survey No: 307/1A in Anakkara Village, Pattambi Taluk, Palakkad District, Kerala (Presentation)

Decision: As invited, the Proponent, Sri. Shanavas with authorization letter, and RQP, Mr. V K Roy were present. The RQP made the presentation. The total mineable reserve is 74,050 MT

(51,835 TPA) and mine life is 4 years. The depth to watertable is 15m during premonsoon. The field inspection was conducted on 21.11.22. The Committee heard the presentation and found that a house within 21m and during presentation proponent intimated that the proponent has purchased the house. Based on discussions, the committee decided to recommend EC for the life of mine of one year subject to condition that a buffer distance of 50m shall be provided between the house and the project boundary and with 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 a maximum depth of 2m below general ground level at the site
3. The excavation activity should be restricted to 2m above the ground water table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for useful purpose
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap
7. Measures should be taken to prevent dust emission by covering of excavated earth during transportation
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth
9. Workers/labourers should be provided with facilities for drinking water and sanitation
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented as per norms
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

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

Granite building Stone Quarry of M/s Chand V Granites in Re Sy. Block No.26 Re. Sy. No. 305/1,2,3,4,5,6,305/6-2,305/6-3,306/2,309/3 in Vadakarapathy Village, Chittur Taluk, Palakkad District, Kerala having an area of 0.9942 Ha (Presentation)

Decision: As invited, the Proponent, Sri. Baiju Chandran and Consultant, Mr. Haneesh K R. representing ABC Techno Labs India Private Limited were present. The RQP made the presentation. The total mineable reserve is 2, 32, 020 MT (46,404 TPA) and mine life is 5 years. The depth to watertable is 20.0 m below the ground level. The nearest house is at 200.7 m and a shed is located at 60m. The project is not located in any landslide hazard zone and there are no Wildlife Sanctuary within 10km. As entrusted a Subcommittee prepared a study report based on remote sensing data, documents submitted by the PP and information gathered from secondary sources. The study report indicated that the project will lead to a water storage of 93000 m³ (93 Million Litre) at the end of the mining activity due to the mine void of 20m depth which will be beneficial to a water-stressed region like

Vadakarapathy provided the storage is safeguarded against accidents and contamination. The study report also indicated that the environmental impact of the project will be minimal. **The Committee heard the presentation and decided to direct the Proponent to submit the following additional documents:**

1. Compensatory afforestation plan with geo coordinates and geotagged photographs of the of the proposed site
2. Photographs of the boundary pillars with geo coordinates.
3. Safeguard measres proposed to be adopted for the quarry pits and proposal for using the mine void as water storage.
4. Geotagged photographs of the haulage road.
5. Revised CER as per norms
6. Revised EMP by excluding activities that come under project cost and including site specific mitigation measures and cost estimate

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

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

Decision: As invited, the Proponent, Sri. Haridasan, and Consultant, Mr. Haneesh K R, on behalf of ABC Techno Labs India Private Limited were present. The Consultant made the presentation. The total mineable reserve is 256785 MT (51357 TPA) and mine life is 5 years. The depth to watertable reported is 37m above MSL. The nearest house is at 97.5m and the Malabar Wild life sanctuary is located at a distance of 4 km. The field inspection was conducted on 04.09.2022. The landslide hazard zones, high and moderate, are located beyond 1.5km and 1.3km respectively. The Committee heard the presentation and decided to direct the proponent to submit the following additional documents:

1. Revised EMP with site specific management plans and appropriate budgetary provisions.
2. Revised CER with monitorable physical targets as per the norms in the OM No F.No.22-65/2017-IA.III dated 30th September 2020 with proof for stakeholder consultation

3. Plan for the protection of seasonal first order drainage system adjacent to the project site
4. Plan for the connectivity of garland canal to the natural drainage system.
5. Plan for removal of boulders in the project area.

12. SIA/KL/MIN/234374/2021 , 2028/EC3/2022/SEIAA

Environmental Clearance project of Mathew P M, for the Ordinary Earth project at Survey No.338/1A/17C of Keerampara Village, Kothamagalam Taluk, Ernakulam District, Kerala State for an area of 0.7186 hectares (Refer back from 120th SEIAA)

Decision: The project is to extract ordinary earth to the tune of 60,000 MT within a period of one year by removing earth from a depth varying from 2m to 12m. The depth to water table is 5m below ground level near the lowest ground level of the site and nearest house is located at a distance of 60m. The Thattekkad wildlife sanctuary is located at a distance of 5.5km. The Committee noted the decision of the 120th meeting of the SEIAA with respect to the distance criteria applicable to NBWL Clearance. The Committee also noted the pertinent direction in the OM dated 24.06.2013 that no borrowing of earth / excavation of 'brick earth' or 'ordinary earth' shall be permitted in case the area of borrowing/ excavation is within 1 km of boundary of national parks and wild life sanctuaries. Accordingly, **the Committee decided to recommend EC for the project for 1 year subject to the following specific conditions in addition to the general conditions:**

1. The excavation activity associated should not involve blasting.
2. The excavation activity should be restricted to 2m above the ground water 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 earth 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. CER activities shall be undertaken as per stipulation and it should be expended for monitorable work targets as per OM.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

13. SIA/KL/MIN/255487/2022 , 2010/EC1/2022/SEIAA

Granite Building Stone Quarry of Sri.K.Udayan over an extent of 0.9917 Hectares in Sy.No. 163, 163/1 at Enadimangalam Village, Adoor Taluk, Pathanamthitta District, Kerala (Presentation)

Decision: As invited, the Proponent, Sri. K Udayan, and RQP, Mr. Suryakumar were present. The RQP made the presentation. The total Mineable reserve is 2,60,337.5 MT (52,068 TPA) and Mine life is 5 years. The depth to watertable is 12m bgl. The nearest house is at 89.5m. The field inspection was conducted on 27.09.2022. The Committee heard the presentation and noted that certain of the built structure are not shown in survey map. Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Haulage road map with its connectivity to local roads.
2. Details biodiversity status of the site and surroundings
3. Compensatory afforestation plan with recommended species with geo coordinates and geo tagged photographs of the site.
4. Detailed drainage plan along with map showing connectivity to natural drains
5. Revised CER as per norms
6. Revised EMP incorporating site specific mitigation measures and adequate budgetary provisions including CER cost
7. Revised Project cost incorporating CER and EMP
8. Copy of Non assignment certificate
9. Potential and plan for rain water harvesting in the abandoned quarry and possibility for utilization
10. Location for keeping rejects/OB should be marked on a map.
11. A drainage map and its connectivity to the nearest natural canal

14. SIA/KL/MIN/267357/2022 , 2034/EC3/2022/SEIAA

Environment Clearance for mining permit of "M/s Perumannoor Granites Private Limited" over an extent of 3.5238 Ha at Sy No. 611/1A/19W/17, 611/1A/19W/19, 611/1A/83/13/16, 611/1A/84/14/23 & 611/1A/196/73/2. Keerampara Village, Kothamangalam Taluk, Ernakulam District, Kerala (Presentation)

Decision: As invited, the representative of the Proponent, Sri. Thomas N A with authorization letter, and RQP, Mr. Thambu Cheriyan with authorization letter were present. The RQP made the presentation. The total Mineable reserve is 11,46,889.50 MT (1,41,510 TPA average) and Mine life is 10 years. The depth to watertable is reported as 20m bgl. There are no built structures within 200m. Almost 70% proposed area falls in the medium hazard zone. The Thattekkad Bird (ESZ) sanctuary is situated at 1.74 Kms from the project area which is not mentioned in Form 2 of Parivesh. The field inspection was conducted on 26.10.2022. The Committee heard the presentation and decided to direct the proponent to submit the following additional documents/details:

1. Revised CER for the entire mine life incorporating monitorable physical targets in consultation with the stakeholders.
2. Revised EMP for the entire mine life incorporating site specific mitigation measures, adequate budget provision and revised CER
3. Safeguard measures for chance of rolling down boulders in the area connecting BP1, BP10, BP9 and BP8.
4. Environmental sensitivity data as envisaged in Form 2 of Parivesh.
5. Detailed compensatory afforestation plan along with geo coordinates and geotagged photographs of the proposed site.
6. Revised PFR and Project Cost considering entire life of mine.
7. Proof of application submitted to the NBWL for wildlife clearance.

15. SIA/KL/MIN/267633/2022 , 2026/EC3/2022/SEIAA

Environmental Clearance project of MUHAMMED K P for the Ordinary Earth Removal project at Block-34, Re.Survey No. 215/10-6,7 of Pattimattom Village, Kunnathunad Taluk, Ernakulam District, Kerala State for an area of 0.2830 hectares (Refer back from 120th SEIAA)

Decision: The proposal is to extract ordinary earth to the tune of 30,000 MT within a period of one year. The 133rd meeting of the SEAC referred that matter to the SEIAA for direction. The 120th meeting of the Authority informed that the EC can be recommended by adopting measures for slope stability. The mining shall be limited to the quantity, which is necessary to safeguard the structure. The mining activity should not affect the construction near the area. The general slope and drainage system are to be preserved. The excavation activity should be restricted to a maximum depth of 2m below general ground level at the site. **The Committee decided to concur with the direction of the Authority and decided to recommend EC for one year with the following specific conditions in addition to the general conditions.**

1. Adequate safeguard for maintaining the slope stability should be adopted.
2. The activity associated with borrowing/excavation should not involve blasting.
3. The borrowing/excavation activity should be restricted to a maximum depth of 2m below general ground level at the site.

4. The borrowing/excavation activity should be restricted to 2m above the ground water table at the site .
5. The borrowing/excavation activity should not alter the natural drainage pattern of the area.
6. The borrowed/excavated pit should be restored by the project proponent for useful purposes.
7. Appropriate fencing all around the borrowed/excavated pit should be made to prevent any mishap.
8. Measures should be taken to prevent dust emission by covering of borrowed/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 borrowing/excavation of earth.
10. Workers/labourers 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 proposed excavation.
12. A minimum distance of 15m from any civil structure should be kept from the periphery of the excavation area.
13. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.
14. 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.
15. Measures incorporated in the CER should be implemented as per norms
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

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

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 (ADS received)

Decision: The proposal is to extract mineable reserve of granite building stone to the tune of 6,84,830 MT (1,00,000 TPA) with Mine life is 7 years. The depth to watertable is 30m above msl. The project was presented before the SEAC in its 134th meeting and the additional documents sought are now submitted. The committee verified the documents submitted by the proponent and found them satisfactory. The Proponent has another application with proposal No. SIA/KL/MIN/277815/2022, both sharing a common boundary. The reply to the clarification sought regarding two separate applications in adjacent plots with common boundary is not satisfactory. **Therefore, the committee decided to refer the matter to the SEIAA for advise whether separate application for EC for sites sharing common boundary in adjacent plot can be considered or not.**

17. SIA/KL/MIN/279213/2022 , 2082/EC2/2022/SEIAA

Environmental Clearance for Laterite building stone quarry of Mr. Balakrishna Poojary over an extent of 0.0971 Ha, Survey No-119/PT in Adhur Village, Kasaragod Taluk, Kasaragod District, Kerala. (ADS received)

Decision: The proposal is to extract laterite to the tune of 4250 MT with Mine life of 1 year. The proposal was presented before the Committee in its 134th meeting. The Committee verified the ADS submitted by the proponent and found them satisfactory. Though the proponent has another application for EC in the same survey number, it is clarified that the sites are not contiguous. **Therefore, the Committee decided to recommend EC for a period of One year with 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 ground water 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 purposes.
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 earth 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 excavation area.
11. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The 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 (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

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

Granite Building Stone Quarry of Sri. Tom George over an extent of 2.0508 Ha at Sy No.: 80/5/B, 80/6 & 82/2/B, Palakuzha Village, Muvattupuzha Taluk, Ernakulam District, Kerala (Presentation)

Decision: As invited, the Proponent, Sri. Tom George, and RQP, Mr. Thambu Cheriyan were present. The RQP made the presentation. The total Mineable reserve is 7,21,034.57 MT (1,49,858.94 TPA) and Mine life is 8 years. The depth to watertable is 9.68 m below ground level and the nearest house is at 63m. The site does not fall in any landslide hazard zone. The Committee heard the presentation and noted that a crusher unit is located at 25m from the proposed area. It is also observed that the depth to mining has to be limited to 45m MSL. The Committee observed that the following additional details are required for further appraisal of the project.

1. Recently certified legible survey map from the Village Office
2. Revised EMP for entire mine life
3. Revised CER for entire mine life
4. Revised Project cost
5. Compensatory afforestation plan

The committee decided to entrust Dr. Mahesh Mohan & Dr.K N Krishnakumar for field inspection and report.

19. SIA/KL/MIN/280927/2022 , 2102/EC3/2022/SEIAA

Environmental Clearance –Laterite Building Stone project at Edackattuvayal Village, Kanayannoor Taluk, Ernakulam, Kerala for an area of Permit area0.0971 hectares (Presentation)

Decision: As invited, the Proponent, Sri. Pradeep B, and RQP, Mr. Balaraman were present. The RQP made the presentation. The total Mineable reserve is 3608MT and Mine life is 1 year. The Committee heard the presentation and noted that the depth of mining is 6m and a shed is located at 22m from BP3. The proponent intimated that the shed shall be removed. There is an interlock company at 42m also. The Thattekad Bird Sanctuary is at 41.3km. 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. A buffer distance of 50m shall be maintained between the built structure and the mine area.
2. The excavation activity associated should not involve blasting.
3. The excavation activity should be restricted to 2m above the ground water table at the site.
4. The excavation activity should not alter the natural drainage pattern of the area
5. The excavated pit should be restored by the project proponent for useful purpose
6. Appropriate fencing all around the excavated pit should be made to prevent any mishap

7. Measures should be taken to prevent dust emission by covering of excavated earth during transportation
8. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth
9. Workers/labourers should be provided with facilities for drinking water and sanitation
10. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation
11. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.
14. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.
15. Measures incorporated in the CER should be implemented as per norms
16. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

20. SIA/KL/MIN/286117/2022 , 2067/EC4/2022/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project of M/s V K Stone Crusher at Re-Survey Block No. 59, Re-Survey Nos. 6/527, 6/526, 6/537, 6/600, Vellarvally Village, Iritty Taluk, Kannur District, Kerala for an area of 3.7324 hectares. (Presentation)

Decision: As invited, the Proponent, Sri. V K Benny and Consultant, Mr. P Z Thomas were present. The consultant made the presentation. The Committee noted that the total mineable reserve is 13,16,300 MT (1,30,000 TPA) and mine life is 12 years. The nearest habitation is reported at 201.3 m and a crusher is located at around 10m from the project boundary. The depth to water table is reported as 90m above MSL and ultimate depth of mining proposed is 90m above MSL. The entire project area falls in medium hazard zone in continuation to high hazard zone, the distance to the latter from the project boundary is only 20m. The distance to Aralam Wildlife Sanctuary is reported as 11 Km. The Committee heard the presentation and **decided to entrust Sri. V Gopinathan & Dr. A N Manoharan field inspection and report.**

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

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

Decision: As invited, the Proponent, Sri. Madhulal, and RQP, Mr. V K Roy were present. The RQP made the presentation. The Committee noted that the total mineable reserve is 3,10,040 MT (62,000TPA) and mine life is 5 years. The depth to watertable is reported as 75m below the ground level, the veracity of which need verification. The nearest house is reported at 201.6m. A crusher unit located at a distance of 40m seems to have been demolished. The project area do not fall in the landslide hazard zone. The nearest wildlife sanctuary is reported to be beyond 10km. **The Committee heard the presentation and decided to direct the proponent to submit the following details:**

1. Revised EMP excluding items that are part of project capital and including site-specific management plan for the entire mine life and adequate budget provision.
2. Clarification regarding the built structures within 50m radius seen as per google map.
3. Consent from the owner of the abandoned quarry from where water is proposed to be extracted.
4. A recently certified survey map from the Village Office indicating distance to all the built structures within 200m radius of the proposed site.

22. SIA/KL/MIN/41970/2019 , 1715/EC1/2020/SEIAA

Environment clearance for the Proposed Granite Building Stone Quarry of Mr.SAKKEER A over an extent of 1.2120 Hectares in Re-Survey No. 222 part (Govt. Land.) at Pazhayakunnummel Village, Block No.-33, Chirayinkeezhu Taluk, Thiruvananthapuram District of Kerala (Presentation)

Decision: As invited, the Proponent, Sri. Sakeer A, and RQP, Sri. V K Roy were present. . The RQP made the presentation. The total Mineable reserve is 5,06,267 MT (303394 TPA) and Mine life is 10 years. The depth to watertable is 82m above MSL and the nearest house is at 60.7m. The presentation was first done in the 122nd meeting of SEAC and the field inspection was conducted on 22.5.2022. The Committee noted that there are four houses within 100m radius of the project site, 12 houses within 150m and 23 houses within 200m. There are large number of boulders within the project site. The Committee heard the presentation, examined the proposal, verified the documents and discussed the Field Inspection Report. Based on discussion, the Committee decided to recommend EC for a period of 10 years subject to the following specific conditions in addition to the general conditions:

1. The entire boulders present in the project area should be removed adopting the action plan submitted by the Proponent prior to the commencement of mining
2. A temporary wall of 4m height should be erected all along the boundary of the project area. Wherever required, boundary should be reinforced with gabion walls.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.

4. Green belt should be developed along the buffer zone using local species of vegetation including climbers and creepers prior to commencement of mining.
5. Compensatory afforestation with local species trees, in the land proposed should be done prior to the commencement of mining.
6. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. Blasting should be conducted with a maximum of 30 holes in a blast round using 32mm diameter blast holes drilled with handheld Jack hammer drill to a maximum depth of 1.5m and each hole charged with a maximum of 250gm of explosive.
9. Nonel based shock-tube detonators should be used for initiation so as to have hole to hole delay of 17ms and 25ms and accordingly row to row delay of 25ms or 42ms.
10. Adequate muffling arrangement should be made to restrict fly rocks within 10m.
11. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
12. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
15. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

Building Stone Mine” Quarry Project of M/s Metarock Pvt. Ltd situated 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 proposal is to extract granite building stone to the tune of 38,96, 446 MT (1,90,000 TPA) during the mine life is 10 years. The depth to watertable is reported as 10m bgl. The nearest habitation 53.60m near BP13. The Committee examined the documents submitted by the Proponent. Based on discussions, the **Committee decided to entrust Er. Dileepkumar and Dr. Bijukumar for evaluation of the revised EIA report, field inspection and report.**

24. 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 in Sy.No.269/1-5, 269/1-2, 269/1-3,269/1-4 in Nediyrippu Village, ERnad Taluk, Malappuram District (Presentation)

Decision: As invited, the Proponent, Sri. Junishbabu M P with authorization letter, and consultant, Mr. Haneesh Panicker on behalf of M/S. Eco Tech Labs Pvt Ltd, were present. The RQP made the presentation. The total Mineable reserve is 135945 MT (1,00,000 TPA) and Mine life is 13 years. The depth to watertable is 30m above MSL and the the nearest building is at 261m. About 25% of the project area falls in medium hazard zone. The Committee heard the presentation and noted that EIA study was done for the project and the Public consultation was held. Based on discussions, the Committee decided to direct the proponent to submit the following additional details:

1. Revised EIA report after addressing all the aspects in the approved ToR
2. Revised CER incorporating monitorable physical targets as per norms and adequate fund for the entire mine life
3. Revised EMP incorporating site specific mitigation plan and adequate budgetary for the entire mine life and also incorporating CER
4. Revised project cost incorporating the fund earmarked for revised CER and revised EMP
5. All details required to be incorporated in Form 2 of Parivesh
6. Project area overlaid in the landslide hazard zonation map
7. Recently certified legible survey map indication distance all the built structures within 200m.
8. Compensatory afforestation plan with indigenous species along with geo-coordinates and geotagged photographs of the site proposed

25. SIA/KL/MIS/281995/2022 , 666/SEIAA/KL/5181/2014

Hospital cum Medical Campus Project owned by M/s Sree Anjaneya Medical Trust at Modakkalur, Kozhikode. (Violation Case-Previous file No.666/SEIAA/KL/5181/2014) (Presentation)

Decision: As invited, the Proponent, Sri. Jibin M Chacko, Project Manager, Sree Anjaneya Medical Trust with authorization letter, and consultant, Smt. Anathitha on behalf of Ultra Tech, Environmental Consultancy & Laboratory, were present. The Consultant made the presentation. The total plot area is 1,29,417.78 m² (31.98 acres) and the construction started on 15th June 2006. The first phase was commissioned in 2008 with 150 beds and the existing no. of beds is 890. The constructed built up area exceeded 20,000 m² in July 2009 and hence the project violated EIA Notification 2006. The Proponent presented that the first application to SEAC/SEIAA Kerala was on 05.06.2014 (File no. 666/SEIAA/KL/5181/2014). The presentation also included the details of existing buildings and chronology of construction and the details of

the proposed buildings. The total built up area is 1,39,004.64 m² and the total built up area requiring EC is 57,103.20 m². The violation ToR was granted by the EAC of MoEF & CC on 26 July 2018. The Consultant presented the Project details, background environmental status, Compliance to ToR, Environmental Damage Assessment, Remediation Plan and Natural & Community Resource Augmentation Plan, Penalty estimate, EMP etc. **The Committee heard the presentation and decided to entrust Dr. R Ajayakumar Varma, Dr. Ajithkumar & Dr. C C Harilal for evaluation of the detailed report, field inspection and report.**

26. 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 (Presentation)

Decision: As invited, the Proponent, Dr. A. Marthanda Pillai, Chairman & Managing Director, M/s Ananthapuri Hospitals Private Limited and consultant, Sri. P Z Thomas on behalf of M/s Environmental Engineers & Consultants Pvt. Ltd., were present. The Consultant made the presentation. The total cumulative built up area for which studies are conducted is 40,949.03 sq.m and the total built-up area for which EC is sought is 29,857.23 sq.m. The Committee heard the presentation and noted that detailed evaluation of the proposal has to be done with respect to the constructions carried out in the past, applicability of EIA notification to the earlier constructions carried out, implications of the Notification dated 7.7.2004 etc. **The Committee decided to entrust Er. M. Dileepkumar and Dr. A. Bijukumar for evaluation of the project details, field inspection and report.**

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

1. SIA/KL/MIN/232216/2021 , 953/A2/2019/SEIAA

Extension of Environmental Clearance for Laterite building stone quarry project of Mr.P. J. Jacob, at Survey No: 65 of Anakkara -Village, Pattambi - Taluk, Palakkad District, Kerala over an area of 0.8097 Ha.

Decision: The 120th meeting of the Authority clarified that the Project Proponent should submit the Half Yearly Compliance Report in PARIVESH Portal with a copy to Integrated Regional Office, Bangalore in the case of laterite stone/ordinary earth mining having more than 1 Ha or more than one year mine life in response to the direction sought by the 133rd meeting of the SEAC. The Authority also decided to proceed further with the present proposal for which CCR from IRO, MoEFCC is not sought. Accordingly, the Committee considered the application for extension of the EC No. 953/A2/2019/SEIAA dated 16.11.2020 for mining laterite building stone to the tune of 63764 MT with mine life of one year. The Committee examined the proposal

and documents submitted. Based on discussions, the Committee decided to recommend extension of validity of EC for 2 years from the date of issuance of the EC order subject to the to specific and general conditions issued in the original EC.

PART 2

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/131683/2019 , 1813/EC3/2020/SEIAA

Environmental Clearance for Granite Building Stone Quarry of Mr. N.A Thomas for an extent of 0.9668Ha, Survey no 372/1A/3/8,372/1A/4/9 & 372/1A/4/9 in Kottappady Village, Kothamangalam Taluk, Ernakulam - District, Kerala (ADS Received)

Decision: The Committee examined the documents submitted by the proponent and found them satisfactory. The total mineable reserve is 281940 MT (56388 TPA) and mine life is 5 years. The nearest built structure is 110 m and depth to watertable is reported as 3m bgl. The project was presented before the 131st meeting of SEAC. The elevation of the site vary from 84m to 110m above MSL. The ultimate depth of mining is stated as 70m above MSL. In order to take a final decision on the proposal, the **Committee decided to direct the Proponent to submit a legible survey map showing distance to all the built structures with in 200m radius of the project boundary and depth to water table in the nearest dug well alongwith with geotagged photographs of the well.**

2. SIA/KL/MIN/133062/2019, 1576/EC2/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry of M/s Valad Granites at Survey No. 253/62, 253/356, 253/349 of Valad Village, Mananthavadi Taluk, Wayanad District, Kerala for an area of 2.9249 ha. (ADS Received)

Decision: The Committee examine the proposal and verified the documents submitted by the proponent and found that the land earmarked for compensatory afforestation is not suitable for that purpose. The total mineable reserve is 13,16,688 MT (109724 TPA) and mine life is 12 years. The depth to watertable is 8m bgl. The elevation of the site vary from 750m to 815m above MSL. The ultimate depth of mining proposed is 730m above MSL. The nearest house is 115.90m. The site does not fall in any landslide hazard zone and proof of application for wildlife clearance is submitted. The field inspection was carried out on 14.5.2022 and the project was presented in the 132nd meeting of SEAC. **In order to take a final decision on the proposal, the Committee decided to direct the proponent to identify an alternate suitable site for compensatory afforestation and submit the geocoordinates, survey numbers and geotagged photographs of the proposed site.**

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

Environmental Clearance for Building Stone Quarry of Mr. Abdul Vahid. Aover an extent of 1.6980 Ha. Block No: 37, Re Sy 111/1,110/2,110/2-1 in Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 20.06.2022. The proposed life of mine is 7 years for extracting 4,63,075 MT of granite building stone with an extraction rate of 66154TPA. The depth to watertable is reported varying from 89m to 110m above MSL and the elevation of the site vary from 120m to 85m above MSL. The ultimate of depth of mine is 80m above MSL. The nearest house is 70m NE and the site does not fall in the landslide hazard zone. There is complaint filed on 5.3.2022 by 10 local residents with proof of the opposition of the Nagaroor Grama Panchayath. Though the Committee sought the response of the Proponent, but the proponent has replied that he has not received any copy of the complaint. Based on discussions, the Committee decided to recommend hearing of the parties concerned by the Authority. **The Committee also decided to recommend EC for a period of 7 years subject to the outcome of the hearing and subject to the following Specific Conditions in addition to the General Condition:**

1. Depth of mining should be limited to a maximum of 90m above MSL instead of 80m in the approved Mine Plan considering the depth to groundwater table and vulnerability of the terrain
2. Development of green belt to be initiated prior to the commencement of mining operation
3. Compensatory afforestation to be initiated prior to the commencement of mining.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the compliance report
6. Gabion wall of appropriate height should be provided at the overburden dumping site
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).
9. The haulage road should be maintained well with frequent sprinkling
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers
11. Adequate energy conservation measures proposed should be implemented including solar power installations

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

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

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 07.10.2022. The proposed life of mine is 5 years for extracting 78,720 MT of granite building stone with an extraction rate of 15744 TPA. The depth to watertable is 75m above MSL and the elevation of the site vary from 90 to 100m above MSL. The ultimate depth of mining is 75m above MSL. The nearest house is 50.27m as per survey map. The site does not fall in any landslide hazard zone. The field inspection was conducted on 07.10.22. Based on discussions, **the Committee decided to recommend EC for a period of 5 years subject to the following Specific Conditions in addition to the General Condition:**

1. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
2. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
3. Garland drain should be enlarged to carry the entire overland flow of the adjacent slopy region of the quarry.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
5. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. The overburden dumping site should be protected with gabion walls to prevent erosion.
8. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office

13. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR
14. Boundary Pillars should be properly marked and fencing should be done properly

5. SIA/KL/MIN/142846/2020 , 1713/EC3/2020/SEIAA

Granite Building Stone Quarry of M/s. T. J. Granites Pvt. Ltd” over an extent of 2.0005 Ha in Re-Sy. Nos.326/1-2, 326/1-3, 326/1-4, 326/1-5 & 326/1- 7 in Bharananganam Village, Meenachil Taluk, Kottayam District, Kerala State, India, by Shri.Jaison Jacob (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 17.06.22. The proposed life of mine is 9 years for extracting 8,15,203.75MT of granite building stone with an extraction rate of 96664.75 TPA. The project was presented in the 123rd meeting of SEAC. The depth to watertable is 200m above MSL. The site elevation varies from 224m to 296m above MSL and the ultimate depth of mine will be 200m above MSL. The project area mostly falls in moderate hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 9 years subject to the following Specific Conditions in addition to the General Condition:**

1. The mining should be limited up to 210m above MSL considering the terrain condition and slope.
2. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.
3. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.
4. No trees in the buffer zone should be removed.
5. Buffer zones should be demarcated and additional trees, herbs and climbers should be planted with local plants as mentioned in the biodiversity assessment report.
6. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
7. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
8. The width of the Garland drain should be enlarged towards lower slopes to carry the entire overland flow.
9. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
10. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream.

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

11. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
12. The overburden dumping site should be located at the lower slope region and it should be protected with gabion walls to prevent erosion.
13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
14. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
15. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
16. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
17. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

6. SIA/KL/MIN/147588/2020 , 1643/EC1/2020/SEIAA

Environmental Clearance for Building Stone Quarry M/s Kannanthanam & Company over an extent of 0.4200 Ha. Re Survey no.372/3, of Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent. The Committee considered the NOC issued by the District Authorities on 25.02.2019. Regarding the NOC from defense establishments for mining operation, the legal opinion received from the standing council on 07.08.2022 was that the issue is governed by the Notification under Section 3 of the Works of Defense Act, 1903. Accordingly, the Proponent was directed to obtain the relevant Gazette notification with regard to the particular defense installation. In response, the Proponent clarified that the relevant defence installation at Mukkunnimala is only a lodger unit of the Air Force Station at Shanghumugham and no Notification under Section 3 of the Works of Defense Act, 1903 has been issued in so far as the lodger unit at Mukkunnimala is concerned. Even though a Notification under Section 3 has been issued relating to the Air Force Station at Shanghumugham, the same does not apply to the lodger unit at Mukkunnimala. In order to substantiate the clarification, the Proponent produced a Judgment of the Hon'ble High Court of Kerala dated 13.1.2021 on WP (C) No. 26288 of 2019 (I) regarding issuance of building permit for residential building proposed within 100m from the defense installation at Mukkunnimala and the direction of the Secretary of Vilavoorkal Grama Panchayat to submit NOC from Chief Administrative Officer of Air Force Station, Sanghumughom under whose jurisdiction the Mukkunnimala Air Force establishment falls. The operational portion of the Judgment is "*in the*

absence of any provision in Section 3 of the Act concerning the ancillary units of the works of defence such as lodger units in the case on hand, or of any site intended to be used or to be acquired for any such works included in the declaration, according to me, the restrictions imposed in terms of the Act would not apply to any lands other than lands specifically mentioned in the declaration". The judgement quashed the communication of the Panchayat and the Panchayat was directed to consider the application of the petitioner for building permit without insisting the No Objection Certificate.

In the circumstance, the proposal for mining 95383 MT of granite building stone at the rate of 19076.6 TPA with Mine life of 5 years has been considered by the SEAC. The project was presented in the 117th meeting of SEAC and the field inspection was conducted on 06.07.21. The nearest house is reported at 155m. The elevation of the site vary from 50m to 85m above MSL and the ultimate mine depth is 40m above MSL. The depth to water table is 15m bgl and the site does not fall in landslide hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 5 years subject to validity of the NOC issued by the District Authorities and subject to the following Specific Conditions in addition to the General Condition:**

1. Proponent shall maintain a buffer of 50m between any built structure and the boundary of the mine.
2. Green belt shall be developed and nurtured all along the buffer zone and geo-tagged photographs showing the status should be submitted along with HYCR. It should be initiated prior to the commencement of mining.
3. Compensatory afforestation shall be done by planting trees, climbers and herbs of local species and geo-tagged photographs showing the status should be submitted along with HYCR. It should be initiated prior to the commencement of mining.
4. Drainage management system incorporating garland canal, silt traps, siltation ponds, outflow channel connecting to natural drain shall be in place prior to the commencement of mining.
5. Garland canal, silt traps, siltation ponds and outflow channel shall be desilted and cleaned periodically to sustain the carrying capacity and geo-tagged photographs of the process should be submitted along with HYCR
6. The overburden dumping site shall be protected with gabion walls.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. Transportation of mined material shall not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
9. The haulage road shall be maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management, and rest room facilities shall be provided to the workers.

11. Adequate energy conservation measures proposed shall be implemented including solar power installations for street lights and office.
12. The Environment Management Cell (EMC) shall include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.

7. SIA/KL/MIN/151402/2020 , 1732/EC3/2020/SEIAA

Environmental Clearance for our proposed Granite Building Stone Quarry of M/s Seven Star Granites over an extent of 1.5608 Hectares in situated at Sy.No: 219/1,219/2,219/3 in Manimala Village, Kanjirappally Taluk, Kottayam District, Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 29.07.2022. The proposal was presented before the 122nd meeting of the SEAC. The proposed life of mine is 12 years for extracting 174028 MT of granite building stone with an extraction rate of 14502 TPA. The nearest house is at 101m and the depth to watertable is 15m BGL. The elevation difference of the site is 95m to 138m above MSL and the ultimate mine depth is 90m above MSL. The site is located at a distance of 60m from the moderate hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 12 years subject to the following Specific Conditions in addition to the General Condition:**

1. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.
2. Buffer zones should be demarcated and additional trees, herbs and climbers should be planted with local plants as mentioned in the biodiversity assessment report.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
5. The width of the Garland drain should be enlarged towards lower slopes to carry the entire overland flow.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
7. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
8. The overburden dumping site should be located at the lower slope region and it should be protected with gabion walls to prevent erosion.

9. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
10. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
12. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
13. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
14. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
15. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

8. SIA/KL/MIN/158875/2020 , 1751/EC1/2020/SEIAA

Environmental Clearance for the proposed granite building stone quarry in Re. Sy. No35/1of VallappuzhaVillage,Pattambi Taluk, Palakkad District for an area of 0.7099 Ha. by President, Ottappalam Taluk Karinkal Quarry Operators Industrial Co-Operative Society Ltd (ADS Received)

Decision: The Committee examined the proposal and verified the documents. The project was presented to SEAC in its 122nd meeting. The total Mineable reserve is 136330 MT (28,000 TPA) and Mine life is 5 years. The depth to watertable is 12m bgl. The nearest house is 140.1m. The elevation of the site vary from 55-75m above MSL and the ultimate mine depth is 40m above MSL. The site does not fall in landslide hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 5 years subject to the following Specific Conditions in addition to the General Condition:**

1. Mining should be limited to 45m amsl.
2. Buffer zones should be demarcated and additional trees, herbs and climbers should be planted with local species.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.

6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm)
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
11. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

9. SIA/KL/MIN/181699/2020 , 1875/EC3/2021/SEIAA

Granite Building Stone Quarry M/s. Focus Mining Company over an extent of 4.6674 Ha.at Re-Sy. Bl. No.13, Re-Sy. Nos. 335/2-1, 335/2-2, 335/2-3, Kanjirappally Village, Kanjirappally Taluk, Kottayam, Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 18.11.2022. The project was presented before the 129th meeting of SEAC. The total Mineable reserve is 25,54,159.31 MT (255415.931 TPA) and Mine life is 10 years. The depth to watertable is 63 above msl and the nearest built structure is 58m. The elevation of the site vary from 100-125m above MSL and the ultimate mine depth is 65m above MSL. The site does not fall in landslide hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 10 years subject to the following Specific Conditions in addition to the General Condition.**

1. Buffer zones should be demarcated and green belt should be developed by planting additional trees, herbs and climbers of local species.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
5. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.

6. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. The overburden dumping site should be protected with gabion walls to prevent erosion.
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
13. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

Expansion of Granite Building Stone Quarry of M/S. Chengalathu Quarry Industries for an area of 0.9900 ha in Re-Sy.No: 575/1-3-6-2pt & 581/1-5-7pt at Konni Thazham Village, Konni Taluk, Pathanamthitta District, Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 27.10.22. The proposal was presented before the 133rd meeting of SEAC. The proposed life of mine is 5 years for extracting 4,92,558 MT of granite building stone at an extraction rate of 1,14,776 TPA. The depth to watertable is 126 m above MSL and the nearest house is at 280m. The elevation of the site vary from 142-218m above MSL and the ultimate depth of mining is 133m above MSL. The site mostly falls in the moderate hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 5 years subject to the following Specific Conditions in addition to the General Condition.**

1. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.
2. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.

4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
9. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
12. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

11. SIA/KL/MIN/189304/2020 , 1940/EC1/2022/SEIAA

Granite Building Stone Quarry of Shri. K. J. Thomaskutty over an extent of 0.6147 Ha. Survey no.776/1-29, 776/1-3-18,776/1-5-4, 776/1-5-4-8, 776/1-5-4-8, 776/3-8 of Chethackal Village, Ranni Taluk, Pathanamthitta District, Kerala (ADS Received)

Decision: The Committee examined the proposal and verified the documents. The project was presented in 133rd meeting of SEAC and the appraisal is done based on an evaluation report based on remote sensing data, secondary data and details provided by the proponent. The proposed life of mine is 3 years for extracting 76,212.80 MT of granite building stone with an extraction rate of 26,136.40 TPA. The nearest house is at 57m and the depth to watertable is 108m above MSL. The elevation of the site vary from 120-148, above MSL and the ultimate mine depth is 115m above MSL. The site doesn't fall in the landslide hazard zone. Based on discussions, **the Committee decided to recommend EC for a period of 3 years subject to the following Specific Conditions in addition to the General Condition:**

1. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.

2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
5. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. The adjacent abandoned quarry should be protected by adopting appropriate safeguards against accidents and geotagged photographs of the protection adopted should be submitted alongwith HYCR.
7. The overburden dumping site should be protected with gabion walls to prevent erosion.
8. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
13. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

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

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report conducted on 28.07.22. The proposed life of mine is 8 years for extracting 1686655 MT of granite building stone with an extraction rate of 210831.875 TPA. The depth to watertable is 60m above MSL and the nearest house is reported at 201m. The elevation of the site vary from 130-230m above MSL and the ultimate mine depth is 145m. A considerable portion of the site falls in low hazard zone and border the medium hazard zone. The high hazard

zone is located at a distance of 670m from the project boundary. Based on discussions, **the Committee decided to recommend EC for a period of 8 years subject to the following Specific Conditions in addition to the General Condition:**

1. As per the mine plan, the mining will lead to the formation of a water storage of depth 20m in a terrain with steep to very steep slope. In order to reduce the adverse impact, the depth to mining should be limited to 155m above MSL instead of 145m above MSL.
2. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.
3. Since the region in which the proposed site falls is fragile, in general, and considering the terrain fragility of the proposed site, it is desirable to obtain the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014, as a precautionary measure.
4. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
5. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
10. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
11. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
12. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
13. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR
14. A protection wall has to be constructed above and between BP11 and BP 12

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

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

Kannur District, Kerala for an area of 2.0235 hectares. (Additional documents received)

Decision: The proposal is to to extract granite building stone of 8,42,144 MT (1,05,268 TPA) with Mine life of 8 years. The nearest house is at 202 m and depth to watertable is 3m below ground level at the valley portion away from the proposed site. The presentation was done on 06.08.2022 and field inspection conducted on 25.10.2022. The site does not fall in landslide hazard zone. The elevation of the area vary from 95-135m above MSL and the ultimate mine depth is 80m above MSL. The committee examined the additional documents and observed that the closure of the mine adjacent to the proposed site is not progressed well. The Committee also observed that the CER plan is submitted as summary of activities only without detailing of activities and budgetary requirement and is not envisaged for the life of mine. **Therefore the committee decided to seek a detailed CER along with specification & work plan for each proposed activity. The Proponent is also directed to submit the progress of the implementation of mine closure plan.**

14. SIA/KL/MIN/195303/2021 , 1885/EC4/2021/SEIAA

Environmental Clearance for the Proposed Granite Building Stone Quarry of Mr. M.P Balan.at Re.Sy. No. 29/3 of Meppayyur Village, Koyilandy Taluk, Kozhikode District of Kerala for an extent of 0.9928 Ha.(Additional documents received)

Decision: The Committee examined the proposal and verified the documents. The presentation of the project was done on 08.06.2022 and the field inspection was conducted on 30.09.2022. The proposed life of mine is 5 years for extracting 261125 MT of granite building stone with an extraction rate of 52225 TPA.The depth to watertable is 20m BGL and the nearest house is 61m. The site does not fall in landslide hazard zone. **Based on discussions, the Committee decided to recommend EC for a period of 5 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Depth of mining should be limited to 20m above MSL instead of 15 m in the approved Mine Plan considering the depth to groundwater table and vulnerability of the terrain
2. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
3. Temporary wall of 4m height should be erected at the boundary of the project area to avoid nuisance to the houses in the vicinity
4. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
5. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.

6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
8. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
9. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
12. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR
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

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

Environmental Clearance for the Building Stone quarry situated at Situated over an area of 3.9800 Ha in Sy. No. 253/14, 266/1 & 266/2 of Cherukave village Kondaty Taluk, Malappuram district of Kerala (ADS Received)

Decision: The proposal is to extract 8,66,790 MT (86,679 TPA) of granite building stone with Mine life of 10 years. The depth to watertable is 56 m above MSL and the nearest house is 300m. The presentation of the proposal was done in the 129th meeting of SEAC and field inspection conducted on 03.09.2022. The site does not fall in landslide hazard zone. The committee examined the proposal, studied the EIA report and verified the documents submitted by the proponent and found that CER presented before the Committee and submitted as ADS are different and the one submitted need revision. **Therefore, Committee decided to direct the proponent to submit a revised CER incorporating the following:**

1. Proof of consultation with the stakeholders while preparing the CER plan
2. Supply of drinking water to nearby village with tankers should be replaced with monitorable physical targets.
3. The compensatory afforestation mentioned in CER should be included in the EMP
4. Alternate plan for the above two proposal should be incorporated in the CER.
5. Consequently the EMP should be revised by including the proposal (2) and (3) above.

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

Building Stone quarry situated at Situated at Sy. No. 253/14 & 266/2 of Cherukavu Village, Kondaty Taluk, Malappuram district of Kerala (ADS Received)

Decision: The Committee examined the proposal, EIA report and verified the documents. The field inspection conducted on 03.09.22. The proposed life of mine is 10 years for extracting 188740 MT of granite building stone with an extraction rate of 18874 TPA. The nearest house is at 300m and nearest built structure is at 111m. The site does not fall in landslide hazard zone. The committee examined the proposal, studied the EIA report and verified the documents submitted by the proponent and found that CER presented before the Committee and submitted as ADS are different and the one submitted need revision. **Therefore, Committee decided to direct the proponent to submit a revised CER incorporating the following:**

1. Proof of consultation with the stakeholders while preparing the CER plan
2. Supply of drinking water to nearby village with tankers should be replaced with monitorable physical targets.
3. The compensatory afforestation mentioned in CER should be included in the EMP
4. Alternate plan for the above two proposal should be incorporated in the CER.
5. Consequently the EMP should be revised by including the proposal (2) and (3) above.

17. SIA/KL/MIN/221432/2021 , 1451/EC1/2019/SEIAA

Granite Building Stone Quarry of M/s Aloor Blue Metal Crusher Unit (Conversion ToR to EC), Pattithara Village, Pattambi Taluk, Palakkad District, Re Survey No.152,153/2,153/1,154/2A,197/1(P), Area-3.0108Ha, (ADS Received)

Decision: The Committee examined the proposal and verified the documents submitted by the proponent and found them satisfactory. The total Mineable reserve is 832715 MT (83272 TPA) and Mine life is 10 years. The depth to watertable is 7m below ground level and the nearest house is at 108m. The presentation of the project was done in 132nd meeting of SEAC and field inspection was conducted on 29/09/2022. Based on discussions, **the Committee decided to recommend EC for a period of 10 years subject to the following specific conditions in addition to general conditions.**

1. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.

5. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
8. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
11. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

Granite Building Stone Quarry of Mr. Adesh Kumar C.S. at Survey No. 208/1-62,208-1-28 in Alanallur III Village, Mannarkkad Taluk, Palakkad District, Kerala for an area of 0.9913 hectares. (ADS Received)

Decision: The committee examined the proposal and verified the documents submitted by the proponent and found them satisfactory. The total Mineable reserve is 294080 MT (58816 TPA) and Mine life is 5 years. The Proponent submitted proof of application submitted to NBWL for wildlife clearance. The Committee decided to invite the Proponent for presentation.

19. SIA/KL/MIN/261884/2022 , 2072/EC6/2022/SEIAA

Environmental Clearance for Laterite building stone quarry of Mr. Abdul Majeed. P, over an extent of 0.9716 Ha, Re Survey No- 1/4 in Pulikkal Village, Kondotty Taluk, Malappuram District, Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report. The total Mineable reserve is 85015 MT and Mine life is 4 years. The depth to watertable is 8m BGL. There are two complaints regarding the ownership of the land of proposed area for mining and the Proponent submitted his response to the Complaints. As per the records, the possession is in the name of the company who submitted the proposal for mining. **The legal aspect of the complaints may be examined at the level of SEIAA. Subject to this, the Committee decided to recommend EC for a period of 4 years subject to the following Specific Conditions in addition to the General Condition:**

1. The excavation activity associated should not involve blasting.
2. The excavation activity should be restricted to 2m above the ground water 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 earth 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 during the first two years and it should be operated and maintained till the mine closure is completed.
15. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

20. 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. (ADS Received)

Decision: The proposal is to extract mineable reserve of granite building stone to the tune of 670805 MT (1,10,000 TPA) with Mine life is 7 years. The depth to watertable is 30m above msl. The project was presented before the SEAC in its 134th meeting and the additional documents sought are now submitted. The committee verified the documents submitted by the proponent and found them satisfactory. The Proponent has another application with proposal No. SIA/KL/MIN/276958/2022, both sharing a common boundary. The reply to the clarification sought regarding two separate applications in adjacent plots with common boundary is not satisfactory. **Therefore, the committee decided to refer the matter to the SEIAA for advise**

whether separate application for EC for sites sharing common boundary in adjacent plot can be considered or not.

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

Environmental clearance for Granite Building Stone Quarry of Mr. Sajeer. K. T, over an area of 1.2008 Ha. Block No.61, Re.Survey No. 3/4, 3 in Trikkalangode Village, Ernad Taluk, Malappuram District, Kerala (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found satisfactory. The total Mineable reserve is 501090 MT (41758 TPA) and Mine life is 12 years. The depth to watertable is 65m BGL which seems to be ambiguous. The nearest house is at a distance 420m, which need verification. **The committee decided to entrust Sri. V Gopinathan and Dr. A V Raghu for field inspection and report.**

22. SIA/KL/MIN/280078/2022 , 2083/EC2/2022/SEIAA

Environmental Clearance for Laterite building stone quarry of Mr. Balakrishna Poojary over an extent of 0.0971 Ha, Survey No-119/PT1 in Adhur Village, Kasaragod Taluk, Kasaragod District, Kerala. (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. The total Mineable reserve is 4250 MT and Mine life is 1 years. The depth of mine as per mining plan is 4m and the depth of water table is 9m bgl. The presentation of the project was done in 134th meeting of SEAC. **Based on discussions, the Committee decided to recommend EC for a period of One year with 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 ground water 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 purposes.
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 earth 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 excavation area.

11. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The 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 (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

23. SIA/KL/MIN/280117/2022 , 2098/EC6/2022/SEIAA

Environmental Clearance for the Laterite Building Stone Quarry Project of Sri.Mohammed Faisal Kannadan for an area of 0.1943 Ha in Kurumbathur Village, Tirur Taluk, Malappuram District (ADS Received)

Decision: The Committee verified the documents submitted by the proponent and found them satisfactory. Presentation of the project was done in 135th meeting of SEAC. The total Mineable reserve is 20401.5 MT and Mine life is 1 years. The depth to watertable is 11m BGL and the buildings are beyond 50m. **Based on discussions, the Committee decided to recommend EC for a period of One year with 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 ground water 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 purposes.
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 earth 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 excavation area.
11. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.

13. The 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 (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

24. SIA/KL/MIN/43559/2019 , 1483/EC2/2019/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry of Mr. C. Firos Babu in Survey No 201, 202, 203, 214, 215, 216/1 & 218 over an extent of 4.3520 Hectare in Thiruvilwamala Village, Thalappilly Taluk, Thrissur District, and Kerala (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The total Mineable reserve is 27,35,763 MT (228605 TPA) and Mine life is 12 years. The nearest house is at 120m. The depth to highest watertable stated in the application is 0.53m bgl and the same in the field inspection report is 60m above MSL. The elevation of the site vary from 87.5-102.5m above MSL and ultimate depth of mine proposed is 15m above MSL, thereby the depth of mine void will be 73.5m below ground level. Considering the depth to water table, the mining is permissible only up to the 65m above MSL. Therefore, the Committee decided to recommend EC for a period of 12 years subject to the following Specific Conditions in addition to the General Condition:

1. The mining should be limited up to a depth of 65m above MSL instead of the proposed 15m above MSL as the depth to the water table is 60m above MSL.
2. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
8. The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.

10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
11. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

25. SIA/KL/MIN/45189/2019 , 1739/EC4/2019/SEIAA

Environment Clearance for the proposed Granite Building Stone Quarry of M/s. K. V. N. Engineering & Constructions" over an extent of 3.4162 Ha. (8.4414 Acres) at Sy. No. 292/1A, Vellad Village, Thaliparamba Taluk, Kannur District, Kerala State.(Additional Documents Received)

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The Presentation of the project was done on 23.05.2022 and field inspection conducted on 22.06.2022. The proposed life of mine is 12 years for extracting 1735863MT of granite building stone with an extraction rate of 168912 TPA. The depth to watertable is 87m MSL and the nearest house is at 55m. The portion of the site in the northern and souther side fall in moderate hazard zone. The NW, N, NE, E, SE and S side of the site is surrounded by moderate hazard zone. The high hazard zone is at a distance of 610 kms. The elevation of the site vary from 110m to 225m above MSL and ultimate mine depth proposed is 90m above MSL. **Based on discussions, the Committee decided to recommend EC for 12 years subject to the following specific conditions in addition to general conditions.**

1. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.
2. Quarry blasting shall temporarily be stopped if there are two consecutive days of rainfall in the respective village until a completely rain free day occurs.
3. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
4. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, harbs and climbers of indigenous species.
5. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
6. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.

8. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
9. 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. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
12. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
13. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
14. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

26. SIA/KL/MIN/69596/2021 , 1872/EC1/2021/SEIAA

Environment Clearance (EC) for the Granite Building Stone Quarry of N. Ramachandran in Anavoor Village, Neyyattinkara Taluk, Thiruvananthapuram District, Kerala (ADS Received)

Decision: The committee verified the documents submitted by the proponent. The presentation of the project was conducted on 131st meeting of SEAC and field inspection was conducted on 8.10.2022. The total Mineable reserve is 5,05,845 MT (50,875 TPA) and Mine life is 10 years. The depth to watertable is reported as 35-40m bgl in the application form and 5-10m bgl in the EIA report (Page 94). The nearest built structure is at 83.6m and the nearest house is at 131.30 m. The project does not fall in landslide hazard zone. The elevation of the site vary from 80m to 125m above MSL and the ultimate mine depth is 75m above MSL. The CER is submitted without proof of beneficiary consultation and letter from the stakeholder institutions. **Therefore, the Committee decided to direct the Proponent to submit the following:**

1. Proof of beneficiary consultation and letter from the stakeholder institutions.
2. Depth to water table measured in the nearest dug well with geotagged photograph of the well.

27. SIA/KL/MIS/271560/2022 , 1991/EC6/2022/SEIAA

Environmental Clearance for the Proposed Expansion of Existing Building Construction Project (Wellness Resort) to be developed by Mr. Siva Bhadran K power of attorney holder of Mr. Faisal Edavalath Kottikollon (ADS Received)

Decision: The Committee examined the proposal, verified the documents and discussed the field inspection report. The presentation was conducted on 133rd meeting of SEAC and field inspection was conducted on 02.07.2022. The total built up area is 46,448 sq.m. **Based on discussions, the Committee decided to recommend EC for a period of 10 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Climate responsive design as per Green Building Guidelines in practice should be adopted
2. Vide GO (MS) No. 39/2022/LSGD dated 25.2.2022, the Government of Kerala has introduced green rating and green building certification to buildings based on green standards. The guidelines published as part of the GO should be adhered to.
3. Vegetation should be grown appropriately on the ground as well as over built structure such as roofs, basements, podiums etc.
4. Green belt surrounding the campus, avenue tree planting and garden development should commence from the beginning of the construction phase. Only local species should be used for green belt and avenue trees.
5. Exposed roof area and covered parking should be covered with material having high solar reflective index
6. Building design should cater to the differently-abled citizens
7. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996
8. 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. Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area, unpolluted and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow.
10. Water efficient plumbing features should be adopted.
11. Design of the building should be in compliance to Energy Building Code as applicable
12. Energy conservation measures as proposed in the application should be adopted in total.

28. SIA/KL/MIS/52532/2019 , 1555/EC1/2019/SEIAA

Environmental Clearance for the Expansion of Technopark Phase III in Sy.No 279, 280, 281, 282, 290, 291, 292, 293,294, 295, 296, 297, 338, 339, 343 part, 346part, 348, 349, 350part, 351, 352, 353, 355, 358, 359, 365, 366, 368, 369, 370 in Attipra Village, Thiruvananthapuram Taluk, Thiruvananthapuram, Kerala. (ADS Received & Legal opinion as per 132nd SEAC not obtained)-complaint received

Decision: The Committee verified the documents and found that proponent has not submitted all the documents sought as per the decision of 132nd SEAC. The legal opinion on the complaint is

also not received. **Therefore, the Committee decided to direct the proponent once again to submit all the remaining additional documents sought as per the minutes of the 132nd meeting of SEAC.** The legal opinion sought from the Legal Officer, SEIAA whether there is any legal hindrance in proceeding with the appraisal process as notified in the compliant submitted by Sri. K.J. Chacko and whether there is any case pending against the consideration of the application for environmental clearance to the proposed project is also not received. **The Committee decided to remind the SEIAA Secretariat to pursue for immediate submission of the legal opinion.**

29. SIA/KL/MIS/62018/2020 , 1588/EC1/2020/SEIAA

Development of Technocity Technology Park in Pallipuram, Veiloor, Andoorakonam, Melthonnakkal Villages, Thiruvananthapuram Taluk, Thiruvananthapuram, Kerala (ADS Received)

Decision: The Committee verified the documents submitted and found that proponent has not submitted all the documents sought as per the decision of the 132nd SEAC. **Therefore, the Committee decided to direct the proponent once again to submit all the remaining additional documents sought as per the minutes of the 132nd meeting of SEAC.**

30. SIA/KL/NCP/71500/2017 , 1143/EC/SEIAA/KL/2017

Proposed Outer Ring Road (ORR) under CRDP-II, Thiruvananthapuram, Kerala (Southern Ring: Mangalapuram-Thekkada-Vizhinjam) (ADS Received)

Decision: The committee verified the documents and found them satisfactory. As directed, the SEAC examined the complaints and observed that the general nature of complaint is about alignment. It is understood that the Proponent examined various alternate alignment and the present alignment was found the most feasible one. The Committee also observed that adequate time was given for raising complaint during public hearing. Since there are persistent complaints, the Committee decided to recommend to SEIAA to suggest the project proponent to establish an additional complaint readdressal mechanism to address such complaints. The presentation of the project was done in 127th meeting of SEAC and clarifications sought by the Committee was presented in the 134th meeting of the SEAC. **Based on discussions, the Committee decided to recommend EC for 10 years with the following specific conditions in addition to general conditions.**

1. Vide GO (MS) No. 39/2022/LSGD dated 25.2.2022, the Government of Kerala has introduced green rating and green building certification to buildings based on green standards. The guidelines published as part of the GO should be adhered to wherever applicable.

2. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996.
3. Sprinkling of water should be done frequently along the haul roads and construction sites using appropriate technique.
4. Encapsulation of dust sources, erection of screen/barriers for crushers/hot mix plant, sprinkling of water mist spray etc. should be adopted.
5. Stormwater drainage and its interconnection with the natural drain of the locality should be ensured and the adequacy should be monitored and corrections, if any, should be made as and when required. The details along with geotagged photographs of monitoring and corrections made, if any, should be included in the HYCR.
6. Avenue plants and green belt should be developed with trees and herbs having high pollution sink potential and geotagged photographs of the same should be included in the HYCR
7. Compensatory afforestation for the trees removed from the alignment and other areas involving the project should be carried out as per G O. (Rt.) No.172/2010/F&WLD dated 21/04/2010 at the rate of 1:10 norms in public space available near the project location and in the lands of public institutions and industries.
8. Protocols/procedures for addressing the slope stability, landslips, rock fall etc. should be adopted strictly
9. Specific and appropriate management plan should be adopted for addressing the impact on water bodies and low lying areas along the proposed project.

PART 3

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/130760/2019 , 1723/EC3/2020/SEIAA

Granite Building stone quarry of “K.V Vincent, Managing Partner, M/s. Bharat Rock Product At Re-Sy.No: 47/1-2,47/2-1,47/2-2, Block No.18 in Ayyampuzha Village, Aluva Taluk, Ernakulam District ,Kerala (FIR received)

Decision: The proposal to extract granite building stone to the tune of 1,71,388 MT (34,268 TPA) with Mine life of 5 years. The depth to watertable 13m. The Committee examined the proposal and discussed the field inspection report conducted on 16.11.2022 and **decided to direct the proponent to submit the following additional documents:**

1. Revised and site specific risk assessment report as mining involves sites with boulders and the general slope of the terrain is moderate, steep and very steep
2. Detailed soil protection measures as the soil thickness is reported to be 1m to 2.5m.

3. Drainage map involving proposed garland drain, silt traps, settling pond and connectivity to natural drain
4. Map showing location of OB dump and top soil storage
5. Map showing haulage road and detailed plan for developing the haulage road as there is no road connecting the site at present.
6. Plan for compensatory afforestation including the geo-coordinates of the proposed site and geo-tagged photographs of the site
7. Details of sanitation and waste management arrangements
8. Details of Energy Conservation Measures
9. Revised Environment Management Plan incorporating site specific mitigation measures and adequate budgetary provisions for the life of mine
10. Revised Corporate Environment Responsibility incorporating monitorable physical targets decided based on stakeholder consultation for the entire life of mine
11. Recent cluster certificate
12. Recent legible survey map from the Village Office
13. Recent data on environmental quality.
14. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.

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

Granite Building Stone Quarry of Mr.P.V Paul, Re Sy No:263/1 of Thuravoor Village, Aluva- Taluk, Ernakulam- District, Kerala for an extent 0.9905 Ha (FIR received)

Decision: The Committee heard the presentation made in 133rd SEAC meeting, examined the proposal, discussed the field inspection report conducted on 16.11.2022 and **decided to direct the proponent to submit the following additional documents:**

1. Demolish or relocate the shed adjacent to the nearest house to proposed site and submit geo-tagged photograph as proof
2. Closure plan proposal for the portion of the abandoned quarry that is not included as part of the present proposal
3. Revised CER by including monitorable physical targets as per norms and by including maintenance charge for the entire period of mine life
4. Revised EMP by removing the component that form part of the project cost and including closure plan for the portion of the abandoned quarry that does not form part of the proposed site and non-recurring expense for the entire period of mine life
5. Firmly fix the boundary pillar and submit geo-tagged photographs as proof
6. Explanation for providing wrong depth of mine void and not providing pre-mining and post-mining land use data
7. Clarification regarding the actual quantity of overburden and topsoil

8. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.

3. SIA/KL/MIN/166510/2020 , 1811/EC3/2020/SEIAA

Building Stone Mine (Quarry, Minor Mineral Mining) project of M/s Chattupara Granites Private Limited at Survey Nos.734/1B-32, 734/1B-34-3, 734/1B-34-4 of Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam District, Kerala in an area of 0.9700 ha (FIR received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 08.07.21. The presentation of the project was done in 122nd SEAC meeting. The total Mineable reserve is 250050 MT (62512.5 TPA) and Mine life is 4 years. The depth to watertable 80m above msl. The nearest built structure is at 68.7m. **The Committee decided to recommend EC for a period of 4 years subject to the following Specific Conditions in addition to the General Condition:**

1. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
5. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
9. The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.
10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.

11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
12. The top soil on the upper part of the hill should be protected as per the affidavit. The top soil near BP7 should not be disturbed.
13. Protect the area above BP2-BP4 on the north west side of the site outside the buffer area by constructing gabion wall.
14. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

Environmental Clearance project of Amal P Wilson 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 District, Kerala for an Area of 0.7694 Ha (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 16.11.22. The total Mineable reserve is 170193 MT (34,039 TPA) and Mine life is 5 years. The depth to watertable is 13m bgl. The nearest house is at 270m. The Committee observed that the Site is located adjacent to a deep quarry with vertical steep walls and the haulage road is just enough for the movement of trucks at places and it constraints the movement of people living on both sides of the road. GKV granite is located at 79m on the east and Palisseri granite is located at 144m on the north. There is complaint filed by the people living on the side of Palisseri-Mukkannur road that the quarrying leads to severe nuisance as the vibration due to blasting, noise of blast, discharge of waste water from the quarry, incessant movement of trucks through narrow roads etc is affecting their peaceful life. They also reported that there were incidences of fly rocks from the quarry (which is now abandoned) at a distance of about 300m.

Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Fix the boundary pillars firmly to the ground and submit geotagged photographs as proof
2. Plan for widening and maintaining the haulage road so as to avoid nuisance to the people living on both sides of the road
3. Plan for boulder management to be done prior to the mining
4. Detailed drainage plan considering the flow lines within the proposed site
5. Plan for accident-free protection and closure of the adjacent quarry
6. Revised EMP with site specific mitigation plans incorporating adequate fund for recurring and non-recurring expenses
7. Revised CER incorporating monitorable physical targets based on stakeholder consultation

8. Willingness to constitute a monitoring committee under the chairmanship of the elected ward member, representative of the proposed mining project and representatives of the complainants
9. Explanation for not providing the land use details in Form 2.
10. Compensatory afforestation plan and geocoordinates and geotagged photographs of the proposed site.
11. Response to the complaints received against the quarry. The SEIAA secretariat shall provide copy of the complaint to the Proponent.

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

Minor mineral (building stone) mining (quarry) project at Survey No. 425 of Kannamangalam Village, Thirurangadi Taluk, Malappuram District, Kerala by M/s Grand Stone Metals Pvt. Ltd. (FIR received)

Decision: The Committee examined the proposal, heard the presentation done in 131st meeting of SEAC and discussed the field inspection report conducted on 30.11.22. The application of EC was received on 20.07.21 from Mr. Abdul Azeez C K, The total Mineable reserve is 24,77,519 MT (1,00,000TPA) and Mine life is 25 years. The depth to watertable 10m bgl and the nearest house is at 305m SW. The Committee observed that the proposed project area falls on a flank of a hill with steep slope of NE – SW. The project area falls under moderate hazard zone. Soil thickness is moderate and slope is steep to very steep. Haulage road need development. Two active quarries are located bordering to the SE and SW boundary of the proposed project area. Two abandoned quarry pits are also present at the southern part of the project area. A shed is present at the southern buffer zone of the project area. Boulders are present in the project area.

Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:

1. Location map for OB dump.
2. Drainage map showing the connectivity of spill over water from the quarry pit to the natural channel.
3. Detailed plan for compensatory afforestation along with coordinates of the proposed site, geotagged photographs of the site and species proposed to be planted.
4. KML file.
5. Reverified and revised biodiversity assessment report.
6. Reworked CER incorporating more physical targets based on stakeholder consultation.
7. Revised EMP with site specific mitigation measures and adequate budget provision
8. Revised Project cost incorporating revised EMP and CER.
9. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.

6. SIA/KL/MIN/220720/2021 , 1944/EC1/SEIAA/2022

Environmental Clearance for the Proposed Laterite (Building Stone) Quarry of Sri. Faris Kiliyamannil for an extent of 0.1942 Ha in Survey No: 307/1A in Anakkara Village, Pattambi Taluk, Palakkad District, Kerala (FIR received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection conducted on 21.11.22. The proposed life of mine is 2 years for extracting 13594 MT of laterite building stone with an extraction rate of 6,797 TPA. The depth to watertable is 14.5m and the nearest house is at 70.50km. **Based on discussion, the Committee decided to recommend EC for a period of two years with 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 ground water 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 purposes.
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 earth 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 excavation area.
11. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.
12. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.
13. The 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 (8.30am to 10.00am) and afternoon (3.30pm to 5 pm).

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

Building Stone Minor Mineral Mining (Quarry) project of Mr. Kurian Jose 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 District, Kerala for an area of 4.0425 ha (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 29.12.2022. The total Mineable reserve is 25,11,088 MT (2,40,000 TPA) and Mine life is 12 years. The depth to watertable is 10m BGL and the nearest built structure is at 65m. The Thatteekkad Bird Sanctuary is at 8.3Km. **Based on discussion, the Committee decided to direct the proponent to submit the following additional documents:**

1. Modified EMP with site specific mitigation measures and adequate budgetary provision for the entire life of mine.
2. Detailed compensatory afforestation plan with plan for protection of endemic plants listed in the biodiversity assessment report
3. Modified drainage plan as the mine area is large and may require multiple channels for storm water runoff with settling tanks
4. Detailed traffic plan
5. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.

8. SIA/KL/MIN/45324/2019 , 1557/EC3/2019/SEIAA

Granite Building Stone Quarry of “Shri. Varghese Chakku At Re- Survey No:284,Block No.22 in Malayattoor Village, Aluva Taluk, Ernakulam District, Kerala State (FIR received)

Decision: The Committee examined the proposal and discussed the field inspection report conducted on 16.12.2022. The total Mineable reserve is 152410 MT (50,803 TPA) and Mine life is 3 years. The depth to watertable is 13m BGL and the nearest built structure is at 150 m. The Committee observed that the width of the site proposed is only 62m and after the buffer zone, the width will only be 47m. Therefore, the width of the site is not adequate for 9 benches and transportation of mined material. **Based on discussion, the Committee decided to direct the proponent to submit the following additional documents:**

1. Biodiversity assessment report
2. PFR prepared taking into consideration the District Survey Report
3. Specific source of water proposed to be used for the project and their geo-coordinates and yield
4. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.
5. Site specific EMP with adequate budget provision
6. CER with monitorable physical targets based on stakeholder consultation
7. Plan for development of haulage road
8. Feasibility of mining and transportation of material from the narrow mine site with effective width of only 47m

9. Clarification regarding distance to forest boundary as the one given in Form 2 seems to be wrong
10. Compensatory afforestation plan along with geo-coordinates of the site proposed and geo-tagged photographs of the site

9. SIA/KL/MIN/74360/2019 , 1446/EC3/2019/SEIAA

Environmental Clearance for proposed Building Stone Mine quarry project of Sri Eldho Kuruvilla (ML area = 2.3337 ha) at Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala. (FIR received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 29.12.2022.. The proposed life of mine is 12 years for extracting 12,52,010 MT of granite building stone with an extraction rate of 2,00,000 TPA. The elevation of the site vary from 104-118m above MSL and the ultimate depth of mine is 55m above MSL. The depth to watertable is given as 5m bgl in the application and 35m above MSL in the field inspection report. The nearest built structure is at 52m and nearest house is at 183m. **Based on discussions, the Committee decided to recommend EC for a period of 12 years subject to the following Specific Conditions in addition to the General Condition:**

1. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
2. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
3. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
4. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
5. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
6. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
7. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
8. The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.
9. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
10. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office

11. The mitigation measures recommended in the EIA study for air environment, noise and vibration, water environment, land environment, ecological environment , socio-economic environment should be strictly adopted.
12. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

10. SIA/KL/MIN/74384/2020 , 1667/EC3/2020/SEIAA

Environmental Clearance for the proposed Building Stone Mine quarry project of Sri. P.K. Prasad (ML area = 2.1235 ha), Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam District, Kerala (FIR received)

Decision: The Committee examined the proposal, verified the documents and discussed the Field Inspection Report conducted on 29.12.2022.. The proposed life of mine is 10 years for extracting 1240930 MT of granite building stone with an extraction rate of 124093 TPA. The elevation of the site vary from 95-100m above MSL and the ultimate depth of mine is 45m above MSL. The depth to watertable is given as 5m bgl in the application and 49m above MSL in the field inspection report. The nearest built structure is at 65m and nearest house is at 132m. **Based on discussions, the Committee decided to recommend EC for a period of 10 years subject to the following Specific Conditions in addition to the General Condition:**

1. The mining should be limited to a depth of 50m above MSL as against 45m above MSL considering the depth to water table
2. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.
3. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.
4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.
5. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.
6. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.
7. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented
8. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
9. The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.

10. Adequate sanitation, waste management and rest room facilities should be provided to the workers.
11. Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office
12. The mitigation measures recommended in the EIA study for air environment, noise and vibration, water environment, land environment, ecological environment , socio-economic environment should be strictly adopted.
13. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR

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

Environmental Clearance for Granite building stone quarry of Shri.K.K.Balakrishnan Nair at survey No.143/1 for an area of 0.5297Ha of Kolathur Village, Kasargod Taluk, Kasargod District, Kerala (FIR Received)

Decision: The Committee heard the presentation in 123rd SEAC meeting, examined the proposal and discussed the field inspection report conducted on 07.10.2022. The total Mineable reserve is 50525 MT (5,000 TPA) and Mine life is 5 years. The nearest built structure is at 200m. The depth to watertable is reported as 58m, which seems to be ambiguous. The elevation of the site vary from 65-100m above MSL and the same after mining will be 57-100m above MSL. **Based on discussions, the Committee decided to direct the proponent to submit the following additional documents:**

1. Recent Cluster Certificate
2. Plan for compensatory afforestation along with geocoordinates and geotagged photographs of the proposed site
3. Revised CER in physical terms to be undertaken by the proponent in consultation with the stakeholders as stipulated in the OM No.22- 65/2017-IA.III dated 30/09/2020 and OM No. 22-65/2017-IA.III dated 20/10/2020 of the MoEF&CC, GOI instead of allocation of funds under CER.
4. Revised EMP incorporating the site specific mitigation measures and adequate budget provision and also incorporating the revised CER.
5. Revised biodiversity assessment with quantification separately for the core and buffer areas.
6. A Recent survey map showing distance to residential/public buildings, inhabited sites, canals, roads, electric lines, mobile towers, religious places etc., within 200 m. radius of the lease boundary certified by the Village Officer.
7. Detailed water level measurement data obtained from the nearest dug well and geotagged photographs of the well.

12. SIA/KL/MIN/262881/2022, 1956/EC1/2022/SEIAA

Environmental Clearance for the Proposed Granite (Building Stone) Quarry, SRI SRI GRANITES in Block No:12, Re-Survey Nos: 664/2, 664/19, 665/22, 665/13, 666/36, 666/34 in Kuthanur-I Village, Alathur Taluk, Palakkad District, Kerala (FIR Received)

Decision: The committee examined the proposal and discussed the report of the field inspection conducted on 03.11.2022. The presentation of the project was done in 133rd SEAC meeting. The total Mineable reserve is 3,81,500 MT (60,000 TPA) and Mine life is 5 years. The depth to watertable is 70m bgl which seems to be ambiguous. The nearest built structure is at 85m. **Based on discussion, the Committee decided to direct the proponent to submit the following additional documents:**

1. Revised CER in physical terms to be undertaken by the proponent in consultation with the stakeholders as stipulated in the OM No.22- 65/2017-IA.III dated 30/09/2020 and OM No. 22-65/2017-IA.III dated 20/10/2020 of the MoEF&CC, GOI instead of allocation of funds under CER.
2. Revised EMP incorporating the site specific mitigation measures and adequate budget provision and also incorporating the revised CER.
3. Revised Project cost as per norms.
4. Depth to the water table measured in the nearest dug well and the geotagged photographs of the well.
5. Compensatory afforestation plan, along with geocoordinates and geo-tagged photographs of the site.
6. Recently certified and legible survey map from the Village Office.
7. Protection plan for abandoned quarry.

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

1. SIA/KL/MIN/292678/2022, SIA/KL/MIN/42746/2019

Modification of EC Application of Granite Building Stone Quarry of M/s. Adani Vizhinjam Port Private Limited, over an extent of 1.1081 Ha. (2.7381 Acres) Re Survey Block. No.29, Re-Survey No. 120/10, Manickal Village, Nedumangad Taluk, Thiruvananthapuram District (FIR received)

Decision: The Committee examined the proposal and discussed the report of field inspection conducted on 18.12.2022. The proposal is for amendment of EC dated 27.2.2020 valid up to 26.2.2025 with production plan of 70230 TPA (max). The extraction approved as the Mine Plan approved on 24.7.2019 and the extraction carried out are given in Table below.

Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	Total
Approved as in Mine Plan - 24.7.2019 (MT)	50125.5	70230	60127.5	50122	50400	9000	290032
Extracted as per KOMPAS (MT)	8000	13950	--	--	--	--	21950

The proposed extraction plan as per the Mine Plan approved on 29.8.2022 is given in Table below.

Year	2025-26	2026-27	Total
Approved as in Mine Plan - 29.8.2022	244181	23062	2,67,243

The EC dated 27.2.2020 was issued with 5 Specific conditions and 48 General conditions. Out of the 5 Specific Conditions, two are not complied with. Out of 48 General conditions, 14 are complied, 13 are not complied and 5 are partially complied. The Proponent has not submitted Certified Compliance Report from the Integrated Regional Office of MoEF & CC, Bangalore stating that the proposal is only for amending the EC conditions. The Proponent requested to recommend the amended project proposal on the ground that they could not conduct mining at the site as envisaged as the construction activities were on hold due to agitations and that the government forces them to complete the construction activities so that the port is operational by August 2023. **Based on discussions, the Committee decided not to recommend the amendment of EC as proposed due to the following reasons:**

1. As per the amendment proposal, it is proposed to extract 2,44,181 MT of hard rocks in 90 days (January 23 to March 23). It amounts to extraction of 2713 MT/day or 271 Truck Load per day. It leads to 27 truck movements in every hour (If the operation is for 10 hours) or one truck movement in every 2 minutes.
2. The areal extent and carrying capacity of the site is inadequate for the proposed magnitude and intensity of blast and other mining activities.
3. The road is narrow and used by the local inhabitant. The carrying capacity of the road is constrained by the width and strength and therefore, traffic of such an intensity is not found feasible.
4. The intensity and magnitude of vehicle movement due to the amendment proposal will increase manifold in the MC road where the traffic density is is very high.
5. The compliance to the conditions of EC issued on 27.2.2020 is not satisfactory.

CONSIDERATION OF TOR PROPOSALS

1. SIA/KL/MIN/404280/2022 , 2160/EC1/2022/SEIAA

Building stone quarry (Minor Mineral) mining project of M/s Sri Krishnagiri Rock Products Pvt. Ltd. is situated at Re-Sy. No. 283/8, 283/9, 283/10, Block 39,

Kizhakkencherry 2 Village, Alathur Taluk, Palakkad District, Kerala for area of 12.7031 hectares

Decision: The committee examined the proposal, verified the documents submitted by the proponent and **decided to recommend Standard ToR along with the following additional studies.**

1. The possibility of excessive groundwater builds up in the near-surface aquifer zones and the hazard inducing characteristics with respect to groundwater hydraulics
2. Impact due to transformation of terrain characteristics and drainage characteristics over the large area, particularly on the ridge of altitude 600m located on the upstream of the proposed site in the south.
3. Carrying capacity of the drains for peak discharges in the area and their influence on land stability
4. Basic vibration characteristics of the terrain
5. The characteristics of slope, soil, surface and subsurface drainage, vegetation and rainfall characteristics and their influence on landslide hazard potential of the site and surroundings.

PART 4

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

1. SIA/KL/MIN/408294/2022 , 1215/EC2/2019/SEIAA

Environmental Clearance for the Granite Building Stone Quarry Project for an area of 2.1315 Ha in Survey No: 459 & 457/13 in Kavanur Village, Ernad Taluk, Malappuram District by Sri.Mohammed K.K

Decision: The application of EC was received on 21.01.2019 from Mr. Mohammed K.K. After detailed scrutiny and verification subcommittee inspected the site on 08.07.2021. Based on the FIR, and documents submitted by the proponent the committee recommended the project for EC in its 129th meeting. The Authority in its 116th meeting perused the proposal and noted the decisions of various SEAC meetings held on different dates and observed that there is a road near BP 14 and BP 15 just outside the project boundary used by the public as per the field inspection report and the distance to the road from the project boundary is not ascertained. So the Authority directed the project proponent to submit survey map indicating the distance of the nearby road from the project area and the classification of road by the Village Officer or Grama Panchayat. The Committee verified the survey sketch submitted by the Proponent as directed by SEIAA & observed that the nearest public road is at a distance of 443 m. **Hence committee decided to adhere to its original decision of 129th meeting of SEAC.**

2. SIA/KL/MIN/43206/2019 , 1489/EC2/2019/SEIAA

Environmental Clearance for the proposed Granite Building Stone Quarry over an extent of 0.2448 Ha in Sy. Nos. 7/1 part & 7/20part Veliyam Village, Kottarakara Taluk, Kollam District, Kerala

Decision: The Committee examined the proposal, verified the documents and discussed the evaluation report. The proposed life of mine is 1 years for extracting 80685MT of granite building stone. The depth to watertable is 23m BGL and the nearest nearest house is at 52.5m. The presentation of the project was done in 120th meeting of SEAC. The Committee observed that the proposed project for mining hard rock from 0.2448 Ha may not add on to the adverse environmental impact inflicted on the land due to earlier mining, considering the present state of environment in the area. **Based on discussions, the Committee decided to recommend EC for a period of 1 years subject to the following Specific Conditions in addition to the General Conditions:**

1. Mining should be limited to 14m above MSL considering the depth to groundwater table.
2. Planting of trees for the development of green belt should be done prior to the commencement of mining and green belt should be nurtured and maintained
3. Compensatory afforestation should be initiated prior to the commencement of mining in
4. available land. An affidavit should be submitted indicating the land with geocoordinates where compensatory afforestation is proposed
5. Garland drain, silt traps and siltation pond should be provided covering the entire project area and outflow channel should be laid to the existing quarry pit.
6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically to prevent any obstruction to the drainage system. Geo- tagged photograph of periodic cleaning of silt settling pits should be included in the HYCR.
7. Retaining wall of appropriate height should be provided at the overburden dumping site
8. CER Plan should be implemented within the first year itself.
9. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).
10. Haulage road should be maintained well with frequent sprinkling

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

Environmental Clearance for the Granite Building Stone quarry project of Sri. M.D George, M/s Ernad Associates having an area of 3.5950 Ha in Survey No. Re Sy Block No:27, Re Sy No:37/8, 39/11-3, 39/11-2, 39/11, 43/1-2, 43/2, 42/4-5, 43/1 in Urangattiri Village, Ernad Taluk, Malappuram.

Decision: The Committee examined the proposal and discussed the evaluation report in detail. **Based on discussions, the Committee decided to direct the Proponent to modify the report**

considering the following observations. The Committee also decided to entrust Dr. V. Gopinath and Dr. C.C. Harilal for field inspection and report.

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

The meeting ended at 6.00 pm on 11th January 2023.

It is decided to convene the 137th meeting of SEAC from 24th & 25th January 2023 in online mode and the 138th meeting in Physical mode on 16th and 17th February 2023.

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

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

Sl.No.	Name	09.01.2023	10.01.2023	11.01.2023
1.	Shri. Sheik Hyder Hussain	✓	✓	✓
2.	Dr.A.Bijukumar.	✓	✓	X
3.	Dr.A.N.Manoharan	✓	✓	✓
4.	Shri. M.Dileepkumar	X	X	X
5.	Smt. Beena Govindan	X	X	X
6.	Dr.C.C.Harilal	✓	✓	✓
7.	Dr.K.VasudevanPillai	✓	✓	✓
8.	Dr.MaheshMohan	✓	✓	✓
9.	Dr.K.N.Krishna kumar	✓	✓	✓
10.	V.Gopinathan	✓	✓	✓
11.	Dr.A.V.Raghu	✓	✓	✓
12.	Dr.N.Ajithkumar	✓	✓	X
13.	Shri. Suneel Pamidi, IFS (Secretary)	✓	✓	✓
14.	Dr.R.Ajayakumar Varma (Chairman)	✓	✓	✓