

PARIVESH FILES

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

PART - 1

Item No.1 **Environmental Clearance for the Laterite Building Stone project, at Survey nos. 353/7. Manjoor Village, Vaikom Taluk, Kottayam, Kerala for an area of 0.0898 Ha.
(SIA/KL/MIN/140439/2020; 1821/EC3/2020/SEIAA)**

Sri. Sajimon Joseph submitted an application for Environmental Clearance via PARIVESH Portal on 25.11.2021, for the mining of Laterite Building Stone, for an area of 0.0898 Ha. in Survey nos. 353/7 in Manjoor Village, Vaikom Taluk, Kottayam, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease/permit order should be provided to the SEIAA before commencing the mining activity.*
- 3. The excavation activity associated should not involve blasting.*

4. *The excavation activity should be restricted to a maximum depth of 2m below general ground level at the site.*
5. *The excavation activity should be restricted to 2m above the ground water table at the site.*
6. *The excavation activity should not alter the natural drainage pattern of the area.*
7. *The excavated pit should be restored by the project proponent for useful purpose.*
8. *Appropriate fencing all around the excavated pit should be made to prevent any mishap.*
9. *Measures should be taken to prevent dust emission by covering of excavated earth during transportation.*
10. *Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth.*
11. *Workers/labourers should be provided with facilities for drinking water and sanitation.*
12. *A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.*
13. *A minimum distance of 15m from any civil structure should be kept from the periphery of the project area.*
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. *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.*
16. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
17. *Measures incorporated in the CER should be implemented as per norms.*
18. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
19. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal,*

covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.2

**Environmental Clearance for the Building Stone Quarry project of Sri. Safarulla K in Re-Sy. No- 318/1D of Vorkady Village, Manjeswaram Taluk, Kasargod, Kerala
(SIA/KL/MIN/168428/2020, 1988/EC2/2022/SEIAA)**

Sri. Safarulla K, submitted an application for Environmental Clearance via PARIVESH Portal on 09.05.22, for the mining of Granite Building Stone Quarry, for an area of 1.0299 Ha. in Re-Sy. No- 318/1D, of Vorkady Village, Manjeswaram Taluk, Kasargod, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 12 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of original EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. Development of green belt using species recommended in the biodiversity assessment report should be initiated prior to the commencement of mining*
- 5. In the field inspection report of SEAC it is mentioned that there is a first order stream in the project area. Project Proponent shall take utmost care to protect this stream as it is essential to recharge the ground water and to maintain the water regime in the project area.*

6. *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.*
7. *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.*
8. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).*
9. *CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.*
10. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
11. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
12. *Adequate energy conservation measures should be implemented including solar power installations*
13. *Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.*
14. *If the abandoned quarry adjacent to the proposed project area is owned by the Project Proponent, the Project Proponent shall take immediate measures to close the abandoned quarry in the project site as per the final closure plan in the approved mining plan within 6 months and a report from district Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of Department of Mining and Geology. The compliance of this condition should also be reported in the HYCR. On receipt of the report, the SEAC shall verify the mine closure status.*
15. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
16. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate*

Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER shall be 2% of the project cost.

- 17. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 18. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 19. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.3

Environmental Clearance for the Granite Building Stone Quarry of Sri. Raju Cyriac, M/s. Focus Mining Company, for an area of 4.6674 Ha, in Re-Sy. Bl. No. 13, Re-Sy. Nos. 335/2-1, 335/2-2, 335/2-3, Kanjirappally Village, Kanjirappally Taluk, Kottayam, Kerala (SIA/KL/MIN/181699/2020; 1875/EC3/2021/SEIAA)

Sri. Raju Cyriac, submitted an application for Environmental Clearance via PARIVESH Portal on 19-01-2021, for the mining of Granite Building Stone Quarry for an area of 4.6674 Ha.

in Re-Sy. Bl. No.13, Re-Sy Nos. 335/2-1, 335/2-2, 335/2-3, Kanjirappally Village, Kanjirappally Taluk, Kottayam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that there is a road in the western boundary which is mentioned as estate road. The Authority decided to direct the Project Proponent to submit the Certificate from the concerned Panchayat regarding the status of the road. Authority decided to issue EC subject to production of said certificate to the satisfaction of SEIAA.

Item No.4

**Application for Environmental Clearance for the Expansion of Granite Building Stone Quarry of M/s Chengalathu Quarry Industries in Sy Nos: 575/1-3-6-2pt & 581/1-5-7pt at Konni Thazham Village, Konni Taluk, Pathanamthitta, Kerala
(SIA/KL/MIN/185659/2020; 1858/EC1/2020/SEIAA)**

Sri. Thomas Mathai, Sole Proprietor & Authorized Signatory, M/s Chengalathu Quarry Industries submitted an application via PARIVESH on 07th June 2021 for Environmental Clearance for the Expansion of Granite Building Stone Quarry, for an area of 0.9900 ha, in Sy Nos. 575/1-3-6-2pt & 581/1-5-7pt at Konni Thazham Village, Konni Taluk, Pathanamthitta, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 5 years with certain Specific Conditions in addition to the General Conditions.

The Authority on verification observed that the Project Proponent has obtained EC for an area of 4.8493 ha vide EC No. 77/SEIAA/KL/172/2013 dated 30.10.2013 in Survey No. 575/1-3-6-2, 581/1-5-7 for 5 years, which was extended for 1 year up to 30.10.2019 as per order dated 07.12.2018. Further, out of the above mentioned area (4.8493ha), considering the validity two leases (2.10 ha and 1.0473 ha) with a total area of 3.1473 ha EC was extended for 5 years i.e., up to 27.12.2024 vide order dated 28.12.2019 as per the direction of the Hon'ble High Court in WP(C) No. 5723 of 2019 dated 23.10.2019. Now the Project Proponent has submitted an application for the expansion of existing EC (3.1473 ha) by adding 0.9900 ha and the total area becomes 4.1373 ha. Since it is an expansion project, the project has to be considered as a new project and the Project Proponent has to submit the Mine Plan, EMP and CER, PFR, etc for the total area as per the existing norms. Instead of a single Mining Plan the Project Proponent has submitted separate Mining Plan for the three separate lease areas (Mining Plan for lease area of 2.10 ha was approved on 13.03.2018, Mining Plan for 1.0473 ha was approved without date and for the lease area of 0.9900 ha was approved on 25.07.2018) and the EMP submitted is only for the area of 0.9900 ha.

Besides, as per the Cluster Certificate issued by District Geologist, Pathanamthitta on 07.04.2022 there is another quarry, having a lease area of 0.90 ha, adjacent to the proposed lease areas within 500 m radius and hence it attracts cluster condition. The Project Proponent has also not submitted the mandatory CCR from the IRO, MoEFCC, Bangalore. Under the circumstances, the Project Proponent has to apply for ToR for the expansion of the project and should submit a single Mine Plan and the CCR from IRO MoEFCC for the expansion of the project.

In the above circumstances, the Authority decided the following:

1. The SEAC has to relook the recommendations of its 136th meeting regarding the issuance of EC for the expansion of the project considering all the observations mentioned above.
2. SEAC shall also verify the applicability of NGT Order dated 18.09.2018 regarding the mandatory Public Hearing for the projects having more than 5 ha area.

Item No.5

Granite Building Stone Quarry of Sri. K. J. Thomaskutty in Sy Nos.776/1-29, 776/1-3-18, 776/1-5-4, 776/1-5-4-8, 776/1-5-4-8, 776/3-8, Chethackal Village, Ranni Taluk, Pathanamthitta, Kerala. (Judgment dated 08.04.2022 in WP(C) No.12093/2022) (SIA/KL/MIN/189304/2020; 1940/EC1/2022/SEIAA)

Sri. K. J. Thomaskutty submitted an application for Environmental Clearance via PARIVESH on 09.12.2021 for the Granite Building Stone Quarry for an area of 0.6147 Ha in Sy Nos.776/1-29, 776/1-3-18, 776/1-5-4, 776/1-5-4-8, 776/1-5-4-8, 776/3-8, Chethackal Village, Ranni Taluk, Pathanamthitta.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 3 years with certain Specific Conditions in addition to the General Conditions. The Authority also noted the Judgment dated 08.04.2022 of the Hon'ble High Court in WP(C) No.12093/2022 in which SEIAA is directed to take up the application and to pass appropriate orders thereon in accordance with the seniority of the submission of the application.

The Authority decided to issue Environmental Clearance for the project life of 3 (three) years, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.*

4. *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.*
5. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
6. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
7. *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.*
8. *The adjacent abandoned quarry should be protected by adopting appropriate safeguards against accidents and geotagged photographs of the protection adopted should be submitted along with HYCR.*
9. *The overburden dumping site should be protected with gabion walls to prevent erosion.*
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 prior to the commencement of mining and it should be 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.*
16. *If the abandoned quarry adjacent to the proposed project area is owned by the*

- Project Proponent, the Project Proponent shall take immediate measures to close the abandoned quarry in the project site as per the final closure plan in the approved mining plan within 6 months and a report from district Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of Department of Mining and Geology. The compliance of this condition should also be reported in the HYCR. On receipt of the report, the SEAC shall verify the mine closure status.*
- 17. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
- 18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER shall be 2% of the project cost.*
- 19. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 20. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEFCC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*

21. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.6 Environmental Clearance for the Granite Building Stone Quarry of Sri. G. Satheesh, M/s Deccan Rocks, for an area of 3.9736 Ha at Re Sy 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 in Thalanad Village, Meenachil Taluk, Kottayam, Kerala (SIA/KL/MIN/191604/2021; 1931/EC3/2022/SEIAA)

Sri. G. Satheesh, M/s Deccan Rocks, submitted an application for Environmental Clearance *via* PARIVESH Portal on 20-09-2021, for the mining of Granite Building Stone Quarry, for an area of 3.9736 ha. at Re Sy. 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 in Thalanad Village, Meenachil Taluk, Kottayam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 8 years with certain Specific Conditions in addition to the General Conditions.

The Authority observed that the SEAC in its 136th meeting minutes mentioned that the mining will lead to the formation of a water storage of depth 20m in a terrain with steep to very steep slope and hence the depth to mining should be limited to 155m above MSL instead of 145m above MSL. The elevation of the site is varying from 130 to 230m amsl.

The Authority decided to refer back the proposal to SEAC to get clarification in this regard. As recommended by SEAC, the Authority also decided to direct the Project Proponent to get an approval for mining in the area from the District Level Crisis Management Committee as the quarry site is located in a fragile area just 800 mts from the high hazard zone.

Item No.7**Environmental Clearance for the Granite Building Stone Quarry Project of Sri. M. P. Balan for an area of 0.9928 Ha in Re-Sy. No. 29/3 at Meppayyur Village, Koyilandy Taluk, Kozhikode.
(SIA/KL/MIN/195303/2021; 1885/EC4/2021/SEIAA)**

Sri. M.P. Balan, Owner, Archana House, Puthiyara P.O, Thiruthiyad, Kozhikode-673004 submitted an application through PARIVESH on 28.01.2021 for Environmental Clearance in SEIAA for the Granite Building Stone Quarry Project for an area of 0.9928 Ha, in Re-Sy. No. 29/3 at Meppayyur Village, Koyilandy Taluk, Kozhikode District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority observed that as per the Specific Condition No.1 recommended by SEAC, the depth of mining is limited to 20m above MSL instead of 15m above MSL considering the depth to groundwater table and hence the total mineable reserve will be reduced to 230370 MT instead of 261125 MT.

The Authority decided to issue Environmental Clearance for the project life of 5 (five) years, for the quantity of 230370 MT, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Depth of mining should be limited to 20m above MSL instead of 15 m as mentioned in the approved Mining Plan, considering the depth to groundwater table and vulnerability of*

the terrain. The scheme of mining should be modified accordingly and the District Geologist shall issue lease /permit for the revised quantity only.

- 4. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
- 5. Temporary wall of 4m height should be erected at the boundary of the project area to avoid nuisance to the houses in the vicinity*
- 6. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.*
- 7. 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.*
- 8. 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.*
- 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. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 11. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with 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.*
- 15. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 16. In the interest of residential buildings located at a distance of 51-200 m radius from the*

quarry site, the Project Proponent shall attend the following:

- An impact vibration study has to be carried out through a reputed agency and 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 within 3 months of commencing quarry operations and included in the Half Yearly Compliance Report. This study must be monitored by a committee which includes concerned ward member of Grama Panchayat and a representative of residents within 200 mts radius. The corrective measures have to be taken to minimize the vibration effect if any as suggested by the agency engaged for the study and the monitoring committee.*
- Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
- Priority should be given to the needs of local residences while implementing CER activities. If the need be the EMP approved shall be modified to accommodate these changes under intimation to SEAC*
- One of the local residents shall be made member of the Environmental management cell and their grievances shall be heard and addressed.*

17. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.

18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER shall be 2% of the project cost.

19. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non

Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.

20. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

21. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.8

**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 at Anakkara Village, Pattambi Taluk, Palakkad, Kerala
(SIA/KL/MIN/220720/2021; 1944/EC1/SEIAA/2022)**

Sri. Faris Kiliyamannil submitted application for Environmental Clearance via PARIVESH for the Laterite Building Stone Quarry for an extent of 0.1942 Ha in Survey No: 307/1A in Anakkara Village, Pattambi Taluk, Palakkad, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 2 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 2 (two) years, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly*

- follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease/permit order should be provided to the SEIAA before commencing the mining activity.*
 - 3. The excavation activity associated should not involve blasting.*
 - 4. The excavation activity should be restricted to 2m above the ground water table at the site.*
 - 5. The excavation activity should not alter the natural drainage pattern of the area.*
 - 6. The excavated pit should be restored by the project proponent for useful purposes.*
 - 7. Appropriate fencing all around the excavated pit should be made to prevent any mishap.*
 - 8. Measures should be taken to prevent dust emission by covering of 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 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 50m 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. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
 - 16. Measures incorporated in the CER should be implemented as per norms*
 - 17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
 - 18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal,*

covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

19. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
20. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.9

**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, Kerala
(SIA/KL/MIN/221257/2021; 1945/EC1/SEIAA/2022)**

Sri. Ramis Abdul Hakeem submitted application for Environmental Clearance via PARIVESH on 30.10.2021 for the Laterite Building Stone Quarry for an extent of 0.7405 Ha in Survey No: 307/1A in Anakkara Village, Pattambi Taluk, Palakkad District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority observed that as per the mining plan, the recoverable quantity of laterite blocks is 51835 MT and the Project Proponent submitted a production plan for 4 years (13314 MTA for the 3 years and 11893 MT in the 4th year).

The Authority decided to issue Environmental Clearance for 2 years , for the recoverable quantity mentioned in the approved Mining Plan i.e., 51835 MT, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The excavation activity associated should not involve blasting.*
- 4. The mining should be limited to 2 m above the lithomargic clay bed.*
- 5. The excavation activity should be restricted to 2m above the ground water table at the site.*
- 6. The excavation activity should not alter the natural drainage pattern of the area*
- 7. The excavated pit should be restored by the project proponent for useful purpose*
- 8. Appropriate fencing all around the excavated pit should be made to prevent any mishap*
- 9. Measures should be taken to prevent dust emission by covering of excavated earth during transportation*
- 10. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth*
- 11. Workers/labourers should be provided with facilities for drinking water and sanitation*
- 12. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation*

13. *A minimum distance of 50m from any civil structure should be kept from the periphery of the project area*
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. *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.*
16. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
17. *Measures incorporated in the CER should be implemented as per norms*
18. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
19. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.10

**Granite Building Stone Quarry of Sri. O. Aboobacker, Managing Partner, M/s Aloor Blue Metal Crusher Unit in Re Survey Nos. 152,153/2,153/1,154/2A, 197/1(P) of Pattithara Village, Pattambi Taluk, Palakkad - (Conversion of ToR to EC)
(SIA/KL/MIN/221432/2021; 1451/EC1/2019/SEIAA)**

Sri. O. Aboobacker, Managing Partner, M/s Aloor Blue Metal Crusher Unit submitted application via PARIVESH for Environmental Clearance for the Granite Building stone Quarry in Re Survey Nos. 152,153/2,153/1,154/2A,197/1(P) of Pattithara Village, Pattambi Taluk, Palakkad.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan and then to extend the EC period to cover the project life of 10 years, from the date of initiation of original EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and

thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 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. 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.*
- 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 prior to the commencement of mining and it should be 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”.*
15. *The Project Proponent shall take immediate measures to close the abandoned quarry in the Project site as per the final closure plan in the approved mining plan and as per KMMC Rules within 6 months and a report from District Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of department of Mining and Geology. The compliance of this condition should also be reported in the HYCR.*
16. ***Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
17. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
18. *In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL*

- (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
19. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
20. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.11

Environmental Clearance for the mining of Ordinary Earth project of Sri. Mathew P. M., for an area of 0.7186 Ha at Survey No. 338/1A/17C of Keerampara Village, Kothamagalam Taluk, Ernakulam, Kerala. (SIA/KL/MIN/234374/2021, File No: 2028/EC3/2022/SEIAA)

Sri. Mathew P. M., submitted an application for Environmental Clearance via PARIVESH Portal on 30.04.2022, for the mining of Ordinary Earth project from an area of 0.7186 Ha. in Survey No.338/1A/17C of Keerampara Village, Kothamagalam Taluk, Ernakulam District, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

1. *The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Project Proponent should strictly follow the Kerala Minor Mineral*

Concession Rules 2015 and amendments thereby.

- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Natural slope and drainage shouldn't be altered*
- 4. The excavation activity associated should not involve blasting.*
- 5. The excavation activity should be restricted to 2m above the ground water table at the site.*
- 6. The excavation activity should not alter the natural drainage pattern of the area*
- 7. The excavated pit should be restored by the project proponent for useful purpose*
- 8. Appropriate fencing all around the excavated pit should be made to prevent any mishap*
- 9. Measures should be taken to prevent dust emission by covering of excavated earth during transportation*
- 10. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth*
- 11. Workers/labourers should be provided with facilities for drinking water and sanitation*
- 12. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation*
- 13. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area*
- 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. 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.*
- 16. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
- 17. CER activities shall be undertaken as per stipulation and it should be expended for monitorable work targets as per OM.*

18. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
19. *A protection wall should be provided at the steep cutting region.*
20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.12

Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Abdul Majeed.P, for an area of 0.9716 Ha in Re Survey No. 1/4 in Pulikkal Village, Kondotty Taluk, Malappuram District (SIA/KL/MIN/261884/2022; 2072/EC6/2022/SEIAA)

Sri. Abdul Majeed P., S/o Ummer Haji, Gazal House, Thiruvalli post, Malappuram submitted an application in SEIAA through PARIVESH on 30.07.2022 for Environmental Clearance for the Laterite Building Stone Quarry for an area 0.9716 Ha in Re-Survey No.1/4 in Pulikkal Village, Kondotty Taluk, Malappuram District.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 4 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority also noted that there are two complaints regarding the ownership of the proposed land for mining and SEAC also opined that the legal aspect of the complaints may be examined at the level of SEIAA.

Hence the Authority, decided to give an opportunity of hearing for both the Project Proponent and the two complainants during the next SEIAA meeting. The intimation regarding the same may be given to all the parties well in advance. The Authority also decided to seek legal opinion regarding the complaint from the Legal Officer, SEIAA.

Item No.13

**Environmental Clearance for the Ordinary Earth Removal project of Sri. Muhammed K.P., for an area of 0.2830 Ha in Block No. 34, Re-Survey No. 215/10-6, 7 of Pattimattom Village, Kunnathunad Taluk, Ernakulam, Kerala.
(SIA/KL/MIN/267633/2022; 2026/EC3/2022/SEIAA)**

Sri. Muhammed K.P submitted an application for Environmental Clearance via PARIVESH Portal on 09-05-2022, for the mining of Ordinary Earth Removal project, for an area of 0.2830 Ha in Block No. 34, Re-Survey Nos. 215/10-6, 7 of Pattimattom Village, Kunnathunad Taluk, Ernakulam, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Adequate safeguard for maintaining the slope stability should be adopted.*
- 4. Mining activity should not affect the construction near the project area*

5. *Mining shall be limited to the quantity, which is necessary to safeguard the structure*
6. *The activity associated with borrowing/excavation should not involve blasting.*
7. *The borrowing/excavation activity should be restricted to a maximum depth of 2m below general ground level at the site.*
8. *The borrowing/excavation activity Mining should be restricted to 2m above the ground water table at the site.*
9. *The borrowing/excavation activity should not alter the natural drainage pattern of the area.*
10. *The borrowed/excavated pit should be restored by the project proponent for useful purposes.*
11. *Appropriate fencing all around the borrowed/excavated pit should be made to prevent any mishap.*
12. *Measures should be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.*
13. *Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.*
14. *Workers/labourers should be provided with facilities for drinking water and sanitation.*
15. *A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.*
16. *A minimum distance of 15m from any civil structure should be kept from the periphery of the excavation area.*
17. *Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.*
18. *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.*
19. *Measures incorporated in the CER should be implemented as per norms*
20. *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).*
21. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme*

Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

22. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.14

**Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Balakrishna Poojary in Survey No-119/PT of Adhur Village, Kasaragod Taluk, Kasaragod, Kerala
(SIA/KL/MIN/279213/2022; 2082/EC2/2022/SEIAA)**

Sri. Balakrishna Poojary, submitted an application for Environmental Clearance via PARIVESH Portal on 22.06.22, for the mining of Laterite Building Stone Quarry, for an area of 0.0971 Ha in Survey No-119/PT, of Adhur Village, Kasaragod Taluk, Kasaragod, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The excavation activity associated should not involve blasting.*

4. *The excavation activity should be restricted to 2m above the ground water table at the site.*
5. *The excavation activity should not alter the natural drainage pattern of the area.*
6. *The excavated pit should be restored by the project proponent for useful purposes.*
7. *Appropriate fencing all around the excavated pit should be made to prevent any mishap.*
8. *Measures should be taken to prevent dust emission by covering of 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 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 50m 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. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
16. *Measures incorporated in the CER should be implemented as per norms*
17. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
18. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER*

activities shall be 2% of the project cost.

19. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.15

**Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Balakrishna Poojary in Survey No 119/PT1, of Adhur Village, Kasaragod Taluk, Kasaragod, Kerala
(SIA/KL/MIN/280078/2022; 2083/EC2/2022/SEIAA)**

Sri. Balakrishna Poojary, submitted an application for Environmental Clearance via PARIVESH Portal on 25.06.22, for the mining of Laterite Building Stone Quarry, for an area of 0.0971 Ha in Survey No-119/PT1, of Adhur Village, Kasaragod Taluk, Kasaragod, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of*

Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.

- 3. The excavation activity associated should not involve blasting.*
- 4. The excavation activity should be restricted to 2m above the ground water table at the site.*
- 5. The excavation activity should not alter the natural drainage pattern of the area.*
- 6. The excavated pit should be restored by the project proponent for useful purposes.*
- 7. Appropriate fencing all around the excavated pit should be made to prevent any mishap.*
- 8. Measures should be taken to prevent dust emission by covering of 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 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 50m 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. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
- 16. Measures incorporated in the CER should be implemented as per norms*
- 17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The*

EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

19. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.16

**Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Muhammed Faisal Kannadan, for an area of 0.1943 Ha in Re-Survey No. 82/1-23 at Kurumbathur Village, Tirur Taluk, Malappuram District
(SIA/KL/MIN/280117/2022; 2098/EC6/2022/SEIAA)**

Sri. Muhammed Faisal Kannadan, S/o Beerankutty, Kannadan House, Marakkara, Kallarmangalam Post, Malappuram submitted an application in SEIAA through PARIVESH on 27.07.2022 for Environmental Clearance for the Laterite Building Stone Quarry for an area 0.1943 Ha in Re-Survey No. 82/1-23 in Kurumbathur Village, Tirur Taluk, Malappuram District.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

1. *The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
2. *The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
3. *The excavation activity associated should not involve blasting.*
4. *The excavation activity should be restricted to 2m above the ground water table at the site.*
5. *The excavation activity should not alter the natural drainage pattern of the area.*
6. *The excavated pit should be restored by the project proponent for useful purposes.*
7. *Appropriate fencing all around the excavated pit should be made to prevent any mishap.*
8. *Measures should be taken to prevent dust emission by covering of 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 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 50m 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. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
16. *Measures incorporated in the CER should be implemented as per norms*

17. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).
18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.
19. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.
20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.17

**Environmental Clearance for the –Laterite Building Stone project Block-25 Re.Survey No.256/2 of Edackattuvayal Village, Kanayannoor Taluk, Ernakulam District, Kerala for an area of 0.0971 Ha.
(SIA/KL/MIN/280927/2022, File No: 2102/EC3/2022/SEIAA)**

Sri. Pradeep A B, submitted an application for Environmental Clearance via PARIVESH Portal on 10 Sep 2022, for the mining of Laterite Building Stone project, for an area of 0.0971 Ha in Block-25 Re-Survey No.256/2 of Edackattuvayal Village, Kanayannoor Taluk, Ernakulam, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 136th meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. A buffer distance of 50m shall be maintained between the built structure and the mine area.*
- 4. The excavation activity associated should not involve blasting.*
- 5. The excavation activity should be restricted to 2m above the ground water table at the site.*
- 6. The excavation activity should not alter the natural drainage pattern of the area*
- 7. The excavated pit should be restored by the project proponent for useful purpose*
- 8. Appropriate fencing all around the excavated pit should be made to prevent any mishap*
- 9. Measures should be taken to prevent dust emission by covering of excavated earth during transportation*
- 10. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth*
- 11. Workers/labourers should be provided with facilities for drinking water and sanitation*
- 12. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation*
- 13. A minimum distance of 50m from any civil structure should be kept from the periphery of the project area*
- 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. *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.*
16. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
17. *Measures incorporated in the CER should be implemented as per norms*
18. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
19. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.18

Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mohammed K. K. for an area of 2.1315 Ha in Survey No. 459 & 457/13 at Kavanur Village, Ernad Taluk, Malappuram District
(SIA/KL/MIN/408294/2022; 1215/EC2/2019/SEIAA)

Sri. Mohammed K.K, Kodakkodan House, Poovathikkal House, Malappuram District submitted an application in SEIAA through PARIVESH on 21.01.2019 for Environmental Clearance for the Granite Building Stone Quarry for an area of 2.1315 Ha in Survey No. 459 & 457/13 at Kavanur Village, Ernad Taluk, Malappuram.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 129th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority observed that the lowest ground level is 40m above MSL and the SEAC recommended to limit the mining to a maximum depth of 30m above MSL i.e., 10m below the lowest ground level. The mineable reserved should be limited to 325000 MT with an annual production plan of 65000 MTA. The production plan is submitted only for 5 years. Authority also noticed that Smt. Thahira W/o Mohammed K.K., the Project Proponent submitted a request on 01.06.2022 to change the name of the Project Proponent in favour of her, due to the demise of her husband, the Project Proponent Sri. Mohammed K.K.

The Authority decided to issue Environmental Clearance for the project life of 5 (five) years, for the quantity of 325000 MT with maximum annual production of 65000 MT, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The Mining should be limited to a maximum depth of 30m above MSL, limiting the depth of mining to 10m below the lowest ground level (40m above MSL).*

4. *The mineable reserve should be limited to 3,25,000 MT with an annual production plan of 65,000 TPA.*
5. *Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
6. *The compensatory afforestation plan proposed should be initiated during the first year itself.*
7. *The garland canal, silt traps, siltation pond and outflow channel should be provided prior to the commencement of mining to ensure adequate drainage of the area.*
8. *The garland drain, silt traps, siltation pond, and outflow channel should be desilted and cleaned periodically and geotagged photographs should be incorporated in the half yearly compliance report.*
9. *Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
10. *A well should be identified or dug to maintain as an observation well and water table should be monitored on a seasonal basis and incorporated in the half yearly compliance report.*
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 OB dumping site should be provided with protection wall.*
13. ***Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
14. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost*

for implementation of CER activities shall be 2% of the project cost.

- 15. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 16. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 17. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

It is brought to the notice of the Authority that the Project Proponent had expired and legal heirship and other documents were submitted in SEIAA office with a request to issue EC in the name legal heir. Authority considered the request and decided to issue EC in the name of the legal heir Smt. Thahira, Kodakkodan House, Thencheri, Poovathikkal P.O., Malappuram 673639.

Item No.19

Environmental Clearance for the proposed expansion of existing building construction project of Sri. Sivabhadran K., Power of Attorney Holder of Mr. Faisal Edavalath Kottikollon in Sy Nos. 162/1, 162/2 at Chelambra Village, Kondotty Taluk, Malappuram (SIA/KL/MIS/271560/2022; 1991/EC6/2022/SEIAA)

Sri. Sivabhadran K., Power of Attorney Holder of Sri. Faisal Edavalath Kottikollon submitted an application in SEIAA through PARIVESH on 07.05.2022 for Environmental Clearance for the proposed expansion of existing building construction project in Sy Nos. 162/1,

162/2 in Chelambra Village, Kondotty Taluk, Malappuram District. The construction is for setting up of a Wellness Resort with a total built-up area of 46,448 sq. m in the plot area of 10.8389 ha. There are two buildings existing at site with built-up area of 3,281 sq. m. The total built-up area includes the existing built-up area of 3,281 sq. m. and the proposed built-up area of 43,167 sq. m. Expected project cost is 800 crores.

The Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, additional details/documents obtained from the Project Proponent during appraisal, Conceptual Plan and the Field Inspection Report. After due appraisal, the SEAC in its 136th meeting recommended EC for a period of 10 years, subject to certain Specific Conditions in addition to the General Conditions.

Authority decided to issue Environmental Clearance for a period of 10 years for the construction of setting up of a Wellness Resort 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.*
13. *As per the project proposal, 26000 m³ of ordinary earth will be removed from the project site during excavation. The excavated earth should not be used for the reclamation or filling of paddy fields and wetlands etc.*
14. *The proposed capacity of the STP should be increased to 60 KLD.*
15. *Since the estimated connected power load is 2400 kW and the proposed Rooftop SPV System is only for 1000 kW, the Project Proponent should enhance the capacity of RTSPV to the maximum extent possible.*
16. *Green belt/avenue plants should be planted as per norms(Total 2755 trees/plants)*
17. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
18. *The Project Proponent shall obtain all necessary clearances/licenses/permissions from all the statutory authorities issuing clearances/ licenses/ permission for the construction projects of this nature*
19. *Provision shall be made for the housing of construction labour within the site with*

all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project (Circular No.J-11013/41/2006-IA.II (I) of GoI, MoEF dt.22.09.2008).

20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Part – 2

Item No.1

**Environmental Clearance for the Granite Quarry of Sri. Mathew Daniel in Sy. No: 340/1/99-1, 340/1/99-2, 340/1/102/2-1, 340/1/100/3, 340/1/100-4, 340/1/100-1, 340/1/100-2, 340/1/102-2, 340/1/103-1 at Enadimangalam Village, Adoor Taluk, Pathanamthitta, Kerala.
(SIA/KL/MIN/127122/2019; 1562/EC1/2019/SEIAA)**

Sri. Mathew Daniel submitted application for EC via PARIVESH on 13.12.2019 for the Granite Quarry, for an extent of 2.2392 Ha in Sy. Nos: 340/1/99-1, 340/1/99-2, 340/1/102/2-1, 340/1/100/3, 340/1/100-4, 340/1/100-1, 340/1/100-2, 340/1/102-2, 340/1/103-1 at Enadimangalam Village, Adoor Taluk, Pathanamthitta, Kerala.

As intimated by SEIAA, the Project Proponent, Sri. Mathew Daniel along with the RQP, Sri. Suryakumar Semban attended for hearing and explained their averments. The Authority after hearing directed them to submit the hearing note within 7 days for further decision to be taken in the next SEIAA meeting.

Item No.2

**Environmental Clearance for Building Stone Quarry of Sri. Abdul Vahid A. in Block No: 37, Re Sy 111/1,110/2,110/2-1, Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District
(SIA/KL/MIN/136154/2020; 1609/EC1/2020/SEIAA)**

Sri. Abdul Vahid.A submitted an application for Environmental Clearance via PARIVESH 19.04.2020, for Building Stone Quarry Project for an extent of 1.6980 Ha in Block No: 37, Re-Sy Nos. 111/1, 110/2, 110/2-1, Nagaroor Village, Chirayinkeezhu Taluk, Thiruvananthapuram District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 7 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that there is a mass petition regarding the quarry project. The District Collector, Thiruvananthapuram didn't submit a report on the mass petition.. Hence the Authority decided to refer the proposal to SEAC to give a definite recommendation after hearing the concerned parties.

Item No.3 **Environmental Clearance for the Building Stone Quarry project of Sri. K.V Bhaskaran in Re-Sy. Nos. 179/1, 182/1, 2, of Kayyur Village, Hosdurg Taluk, Kasaragod, Kerala.**
(SIA/KL/MIN/142587/2020; 1665/EC2/2020/SEIAA)

Sri. K.V Bhaskaran, submitted an application for Environmental Clearance *via* PARIVESH Portal on 20.05.2020, for the mining of Granite Building Stone Quarry, for an area of 0.6355 Ha in Re-Sy Nos. 179/1, 182/1, 2 of Kayyur Village, Hosdurg Taluk, Kasaragod, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

On verifying the google imagery images, the Authority observed that mining is already carried out to some extent in the proposed area in previous years and there is an abandoned quarry pit with about 40m vertical scarp at southeast of the project area. Besides, as per field inspection report, there are two streams flowing through the proposed project area. Hence, the Authority decided to refer back the proposal to SEAC to give clarification on the mining conducted by the Project Proponent before issuing EC and definite plan for managing the two seasonal streams within the project area.

Item No.4

**Environmental Clearance for the Granite Building Stone Quarry of M/s. T. J. Granites Pvt. Ltd for an area of 2.0005 Ha at Re-Sy Nos. 326/1-2, 326/1-3, 326/1-4, 326/1-5 & 326/1-7 in Bharanganam Village, Meenachil Taluk, Kottayam, Kerala.
(SIA/KL/MIN/142846/2020, File No: 1713/EC3/2020/SEIAA)**

Sri. Jaison Jacob submitted an application for Environmental Clearance *via* PARIVESH Portal on 10.06.2020, for the mining of Granite Building Stone Quarry for an area of 2.0005 Ha at Re-Sy. Nos.326/1-2, 326/1-3, 326/1-4, 326/1-5 & 326/1-7 in Bharanganam Village, Meenachil Taluk, Kottayam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 9 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority noticed that 60% of the project area falls in moderate hazard zone. Hence the Authority decided to direct the Project Proponent to submit the no objection Certificate from the Chairman, District Level Crisis Management Group for mining constituted vide G.O (Rt) No. 542/14/ID dated 26th May 2014 subject to production of said NOC Authority decided issue EC as recommended by SEAC.

Item No.5

**Environmental Clearance for Building Stone Quarry of Sri. K. J. Thomas Kutty, Managing Partner, M/s Kannanthanam & Company at Re Survey No. 372/3, in Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram District, Kerala
SIA/KL/MIN/147588/2020, 1643/EC1/2020/SEIAA**

Sri. K. J. Thomas Kutty, Managing Partner, M/s Kannanthanam & Company submitted application for Environmental Clearance *via* PARIVESH on 13.05.2020 for Building Stone

Quarry for an area of 0.4200 Ha at Re Survey No. 372/3, in Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 5 (five) years, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Project Proponent shall maintain a buffer of 50m between any built structure and the boundary of the mine.*
- 4. 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.*
- 5. 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.*
- 6. 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.*
- 7. 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*
8. *The overburden dumping site shall be protected with gabion walls.*
 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 shall 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 shall be maintained well and dust-free with sprinkling arrangement.*
 12. *Adequate sanitation, waste management, and rest room facilities shall be provided to the workers.*
 13. *Adequate energy conservation measures proposed shall be implemented including solar power installations for street lights and office.*
 14. *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”.*
 15. ***Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
 16. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
 17. *In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of*

cracks in the surrounding buildings and disturbance to human and wildlife.

18. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.

19. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.

Item No.6

**Environmental Clearance for the Granite Building Stone Quarry project of Sri. Suraj Thomas for an area of 1.5608 Ha at Sy.No: 219/1,219/2,219/3 in Manimala Village, Kanjirappally Taluk, Kottayam, Kerala.
(SIA/KL/MIN/151402/2020; 1732/EC3/2020/SEIAA)**

Sri. Suraj Thomas, submitted an application for Environmental Clearance via PARIVESH Portal on 05- 07-2020, for the mining of Granite Building Stone Quarry project, for an area of 1.5608 Ha at Sy. No: 219/1,219/2,219/3 in Manimala Village, Kanjirappally Taluk, Kottayam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 12 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the

opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of original EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. 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.*
- 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. *The overburden dumping site should be located at the lower slope region and it should be protected with gabion walls to prevent erosion.*
12. *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.*
13. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
14. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
15. *The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.*
16. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
17. *Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office*
18. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
19. *The Project Proponent shall take immediate measures to close the abandoned quarry*

- in the Project site as per the final closure plan in the approved mining plan and as per KMMC Rules within 6 months and a report from District Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of department of Mining and Geology. The compliance of this condition should also be reported in the HYCR.*
- 20. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
- 21. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
- 22. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 23. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 24. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.7

Environmental Clearance for the proposed Granite Building Stone Quarry of Sri. Sukumaran K., President, Ottappalam Taluk Karinkal Quarry Operators Industrial Co-Operative Society Ltd at Re-Sy. No35/1 in Vallappuzha Village, Pattambi Taluk, Palakkad District (SIA/KL/MIN/158875/2020; 1751/EC1/2020/SEIAA)

Sri. Sukumaran.K, President, Ottappalam Taluk Karinkal Quarry Operators Industrial Co-Operative Society Limited submitted application via PARIVESH for the proposed granite building stone quarry for an area of 0.7099 Ha in Re-Sy. No. 35/1 of Vallappuzha Village, Pattambi Taluk, Palakkad District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 5 (five) years, for the quantity 124957 MT (by limiting the bench at 45 amsl), subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Mining should be limited to 45m amsl. The Scheme of Mine should be prepared accordingly. The District Geologist shall issue permit / lease to the revised mineable quantity as per the EC.*
- 4. Buffer zones should be demarcated and additional trees, herbs and climbers should*

- be planted with local 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. *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. ***Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
 15. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise.*

- The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
- 16. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 17. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 18. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.8

Environmental Clearance for the Building Stone Quarry project of Sri. S. Sundarasan at Re Sy Nos: 114/2-1, 115/6-4- 2, 113/6, 113/4-2, 113/13, in Puthoor Village, Kottarakara Taluk, Kollam, Kerala (SIA/KL/MIN/160638/2020; 1721/EC2/2020/SEIAA)

Sri. S. Sundarasan, submitted an application for Environmental Clearance via PARIVESH Portal on 27.06.2020, for the mining of Granite Building Stone Quarry, for an area of 0.7678 Ha at Re-Sy Nos. 114/2-1, 115/6-4- 2, 113/6, 113/4-2 & 113/13, in Puthoor Village, Kottarakara Taluk, Kollam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the

Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 133rd meeting, recommended EC with the project life of 4 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority observed that as per the Specific Condition No.2 recommended by SEAC, the depth of mining is limited to 195m above MSL considering the depth to groundwater table and hence the total mineable reserve will be reduced to 198045 MT instead of 264060 MT.

The Authority decided to issue Environmental Clearance for the project life of 4 (four) years, for the quantity of 198045 MT, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Depth of mining should be limited to 195m above MSL considering the depth to groundwater table. The Scheme of Mine should be prepared accordingly. The District Geologist shall issue permit / lease to the revised mineable quantity as per the EC.*
- 4. 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.*
- 5. Development of green belt should be initiated prior to the commencement of mining operation*
- 6. Compensatory afforestation should be initiated prior to the commencement of mining.*
- 7. 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. Haulage road should be developed prior to the commencement of mining and it may be maintained well with frequent sprinkling.*
- 8. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted*

periodically and geo-tagged photographs of the process should be included in the compliance report.

- 9. Gabion wall of appropriate height should be provided at the overburden dumping site*
- 10. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 11. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 12. Adequate sanitation, waste management and rest room facilities should be provided to the workers prior to commencement of mining.*
- 13. Adequate energy conservation measures including solar power installations should be implemented prior to commencement of mining.*
- 14. Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.*
- 15. **Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
- 16. If the abandoned quarry adjacent to the proposed project area is owned by the Project Proponent, the Project Proponent shall take immediate measures to close the abandoned quarry in the project site as per the final closure plan in the approved mining plan within 6 months and a report from district Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of Department of Mining and Geology. The compliance of this condition should also be reported in the HYCR. On receipt of the report, the SEAC shall verify the mine closure status.*
- 17. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for*

information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

- 18. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 19. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.9

**Environmental Clearance for the Building Stone Quarry Project of M/s Chattupara Granites Private Limited for an area of 0.9700 Ha at Survey Nos. 734/1B-32, 734/1B-34-3, 734/1B-34-4 in Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam, Kerala.
(SIA/KL/MIN/166510/2020; 1811/EC3/2020/SEIAA)**

Sri. Harish G. Nair, submitted an application for Environmental Clearance via PARIVESH Portal on 19 Oct 2020, for the Granite Building Stone Quarry for an area of 0.9700 Ha in Survey Nos.734/1B-32, 734/1B-34-3, 734/1B-34-4 of Kalloorkkad Village, Muvattupuzha Taluk, Ernakulam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the

Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 4 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 4 (four) years, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.*
- 4. Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.*
- 5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
- 6. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
- 7. 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.*
- 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 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.*
 - 15. Protect the area above BP2-BP4 on the north west side of the site outside the buffer area by constructing gabion wall.*
 - 16. 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.*
 - 17. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
 - 18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*

19. *In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.10

Environmental Clearance for the Mining of Ordinary Clay Project of M/s Balipattam Tile Works at Re-Sy Nos. 7/6, 7/7, 7/8, 7/9 in Pariyaram Village, Taliparamba Taluk, Kannur, Kerala (SIA/KL/MIN/178887/2020; 1850/EC4/2020/SEIAA)

Sri. Sushil Aaron, Managing Director, M/s Baliapatam Tile Works Ltd, Pappinisseri P.O, Kannur-670561 submitted an application through PARIVESH on 14.10.2020 for Environmental Clearance for the Mining of Ordinary Clay Project, for an area of 0.1665 Ha, at Block 79, Re-Sy. Nos. 19/514, 19/515 in Pariyaram Village, Taliparamba Taluk, Kannur, Kerala.

The Authority perused the proposal and noticed that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report and Mining Plan. After the due appraisal, the SEAC in its 133rd meeting recommended to issue EC for the period of 1 year, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for the project life of 1 (one) year, for the quantity mentioned in the approved Mining Plan, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The activity associated with borrowing/excavation should not involve blasting.*
- 4. The borrowing/excavation activity should be restricted to a maximum depth of 2m below general ground level at the site.*
- 5. The borrowing/excavation activity should be restricted to 2m above the ground water table at the site.*
- 6. The borrowing/excavation activity should not alter the natural drainage pattern of the area.*
- 7. The borrowed/excavated pit should be restored by the project proponent for useful purposes.*
- 8. Appropriate fencing all around the borrowed/excavated pit should be made to prevent any mishap.*
- 9. Measures should be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.*
- 10. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.*
- 11. Workers/labourers should be provided with facilities for drinking water and sanitation.*
- 12. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.*
- 13. A minimum distance of 15m from any civil structure should be kept from the*

- periphery of the excavation area.*
- 14. Numbered Boundary Pillars marked with geo-coordinates should be fixed to define the exact boundary.*
 - 15. 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.*
 - 16. 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.*
 - 17. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
 - 18. Measures incorporated in the CER should be implemented as per norms.*
 - 19. 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).*
 - 20. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
 - 21. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.11

Environment clearance for the Proposed Granite Building Stone Quarry of Sri. Sakkeer A. at Block No. 33, Re-Sy No. 222 part (Govt. Land) in Pazhayakunnummel Village, Chirayinkeezhu Taluk, Thiruvananthapuram (SIA/KL/MIN/41970/2019, 1715/EC1/2020/SEIAA)

Sri. Sakkeer A. submitted an application for Environment Clearance via PARIVESH on 01.12.2020, for the Granite Building Stone Quarry for an area of 1.2120 Ha at Block No. 33, Re-

Survey No. 222part (Govt. Land) in Pazhayakunnummel Village, Chirayinkeezhu Taluk, Thiruvananthapuram, Kerala

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 10 years, from the date of initiation of original EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before*

commencing the mining activity.

- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. The entire boulders present in the project area should be removed adopting the action plan submitted by the Project Proponent prior to the commencement of mining*
- 5. 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.*
- 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. Green belt should be developed along the buffer zone using local species of vegetation including climbers and creepers prior to commencement of mining.*
- 8. Compensatory afforestation with local species trees, in the land proposed should be done prior to the commencement of mining.*
- 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. 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.*
- 11. 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.*
- 12. 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.*
- 13. Adequate muffling arrangement should be made to restrict fly rocks within 10m.*
- 14. 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 it should be conducted in the presence of a member from the Department of Mining & Geology, a member from SEAC, the Panchayat Secretary and a local inhabitant. A specific report should be included in the first Half Yearly Compliance Report.*

15. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
16. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
17. *Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office*
18. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
19. *In the interest of residential buildings located at a distance of 51-200 m radius from the quarry site, the Project Proponent shall attend the following:*
 - *An impact vibration study has to be carried out through a reputed agency and 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 within 3 months of commencing quarry operations and included in the Half Yearly Compliance Report. This study must be monitored by a committee which includes concerned ward member of Grama Panchayat and a representative of residents within 200 mts radius. The corrective measures have to be taken to minimize the vibration effect if any as suggested by the agency engaged for the study and the monitoring committee.*
 - *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
 - *Priority should be given to the needs of local residences while implementing CER activities. If the need be the EMP approved shall be modified to accommodate these changes under intimation to SEAC*
 - *One of the local residents shall be made member of the Environmental management cell and their grievances shall be heard and addressed.*

20 As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to

address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

- 20. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 21. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 22. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.12

**Environmental Clearance for the Building Stone Quarry project of Sri. Asokan N at Sy Nos. 7/1 part & 7/20part, in Veliyam Village, Kottarakara Taluk, Kollam, Kerala.
[SIA/KL/MIN/43206/2019, 1489/EC2/2019/SEIAA]**

Sri. Asokan N submitted an application for Environmental Clearance via PARIVESH Portal on 19.11.19, for the mining of Granite Building Stone Quarry, for an area of 0.2448 Ha at Sy Nos. 7/1 part & 7/20part, in Veliyam Village, Kottarakara Taluk, Kollam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on

Form 1, Pre-Feasibility Report, Mining Plan and the additional details/documents obtained from the Project Proponent during appraisal. After the due appraisal, the SEAC in its 136th meeting, recommended EC with the project life of 1 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority observed that the SEAC has constituted a Sub-Committee to study the feasibility of scientific mining in smaller areas. The Authority decided to defer the proposal till the receipt of the report from the SEAC.

Item No.13 **Environmental Clearance for the Granite Building Stone Quarry Project of Mr. C. Firos Babu for an area of 4.3520 Hectare at Sy Nos: 201, 202, 203, 214, 215, 216/1 & 218 in Thiruvilwamala Village, Thalappilly Taluk, Thrissur, Kerala (SIA/KL/MIN/43559/2019; 1483/EC2/2019/SEIAA)**

Sri. C. Firos Babu, S/o. Muhammed, #423, Chirakkattil House, Anamangad P.O., Perinthalmanna Taluk, Malappuram submitted an application in SEIAA through PARIVESH on 15.11.2019 for Environmental Clearance for an area of 4.3520 Ha at Sy Nos: 201, 202, 203, 214, 215, 216/1 & 218 in Thiruvilwamala Village, Thalappilly Taluk, Thrissur, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 12 years with certain Specific Conditions in addition to the General Conditions.

The Authority noticed that the Choolannur Wildlife Sanctuary is located at a distance of 1.2 km from the project site. The Authority decided to direct the Project Proponent to submit a Certificate from the concerned Wildlife Warden stating that the project area is not within the proposed ESZ of the Wildlife Sanctuary. If the project area is outside the proposed ESZ, the

distance of the proposed quarry area from the boundary of the ESZ shall be mentioned in the Certificate.

Wildlife Warden may examine the proposal critically from the wildlife point of view and decide whether the Project is detrimental to the Sanctuary irrespective of distance ESZ proposed if so he has freedom to reject the proposal quoting reasons thereby. In case if he recommends the project he may propose site specific conditions to safe guard the interest of the Sanctuary. In the certificate of Wild life Warden there should be specific recommendation either to accept or reject the proposal.

Item No.14

**Environmental Clearance for the Granite Building Stone Quarry Project of Sri. T. Narayanan Kutty, M/s KVN Engineering & Constructions at Sy No. 292/1A in Vellad Village, Thaliparamba Taluk, Kannur District.
(SIA/KL/MIN/45189/2019) {1739/EC4/2019/SEIAA}**

Sri. T. Narayanan Kutty, Managing Partner, M/s KVN Engineering & Constructions, Narikode, Kottila P.O, Kannur submitted an application through PARIVESH on 09.11.2019 for Environmental Clearance for the Granite Building Stone Quarry Project, for an area of 3.4162 Ha at Sy.No.292/1A in Vellad Village, Thaliparamba Taluk, Kannur, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 12 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of

Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of original EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. As per the Kerala State Disaster Management Plan 2016, quarrying in moderate hazard zone shall be permitted only after getting the approval of the district level crisis management committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 5. Since the proposed project site is surrounded by the moderate hazard zone, the quarrying shall be commenced after getting the approval of the Chairman, District level Crisis Management Group for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*

6. *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.*
7. *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.*
8. *Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.*
9. *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.*
10. *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.*
11. *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.*
12. *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. Geo tagged photographs of the drainage and sampling site should be submitted along with 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*
14. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
15. *The haulage road should be developed and maintained well and dust-free with sprinkling arrangement.*
16. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
17. *Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office*

18. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
19. ***Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.***
20. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
21. *In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
22. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
23. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No. 15

**Environmental Clearance for the Building Stone Quarry project of Sri. Eldho Kuruvilla, for an area of 2.3337 hectares at Block No. 29, Re-Sy Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5pt & 284/1-1pt, Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam, Kerala.
(SIA/KL/MIN/74360/2019; 1446/EC3/2019/SEIAA)**

Sri. Eldho Kuruvilla submitted an application for Environmental Clearance *via* PARIVESH Portal on 17-06-2022, for the mining of Building Stone Quarry project, for an area of 2.3337 Ha at Block No. 29, Re. Survey Nos: 284/1, 279/2-2pt, 279/2pt, 284/2, 284/2-1pt, 284/2-4pt, 284/1-3pt, 284/2-5pt & 284/1-1pt in Mazhuvannoor Village, Kunnathunadu Taluk, Ernakulam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 1, Pre-Feasibility Report, EIA Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 12 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 12 years, from the date of initiation of EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 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. 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.*
- 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 widened and developed prior to the commencement of mining and it should be 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 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.*
- 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.*
- 16. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
- 17. The commitments made by the Project Proponent during the Public Hearing and in EIA/EMP should be addressed and implemented, and submit the report along with the Half Yearly Compliance Reports.*
- 18. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.*
- 19. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*

20. *As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
21. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.16

**Environmental Clearance for the Building Stone Mine project for an area of 2.1235 Ha at Re-Survey Nos: 281/10, 281/11, 281/11-2 in Mazhuvannoor Village, Kunnathunad Taluk, Ernakulam, Kerala.
(SIA/KL/MIN/74384/2020; 1667/EC3/2020/SEIAA)**

Sri. P. K. Prasad submitted an application for Environmental Clearance *via* PARIVESH Portal on 17-06-2022, for the mining of Building Stone Quarry project, for an area of 2.1235 Ha at Re. Survey Nos: 281/10, 281/11, 281/11-2 in Mazhuvannoor Village of Kunnathunad Taluk, Ernakulam, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noted that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, EIA Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. After the due appraisal, the SEAC in its 136th meeting recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations, the approved mining plan is revised every five years till the project life of mine as per KMMC Rules, incorporating scheme of activities to be carried out for the next 5 years. Authority is of the opinion that it is essential to match these procedures and time lines followed in the department of Mining and Geology with the time lines ECs issued for the sustainable management of quarry operations and protection of environment in the project region.

The Authority decided to issue Environmental Clearance initially for a period of 5 years, for the quantity mentioned in the approved mining plan, and then to extend the EC period to cover the project life of 10 years, from the date of initiation of EC (i.e., date of execution of mine lease / permit), subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

The EC is subject to General Conditions and the following Additional Specific Conditions.

- 1. The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. The EC issued will be subject to a review by SEAC after 5 years through field verification to ensure that mining is carried out sustainably as per the EC conditions.*
- 4. The mining should be limited to a depth of 50m above*
- 5. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.*
- 6. 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.*
- 7. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
- 8. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*

9. *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 widened and developed prior to the commencement of mining and it should be 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 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.*
16. *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.*
17. *The commitments made by the Project Proponent during the Public Hearing and EIA/EMP should be addressed and implemented, and submit the report along with the Half Yearly Compliance Reports.*
18. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
19. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the*

concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.

- 20. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 21. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 22. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.17

**Application for EC for the Proposed Outer Ring Road (ORR) under CRDP-II, Thiruvananthapuram, Kerala (Southern Ring: Mangalapuram-Thekkada-Vizhinjam)
(SIA/KL/NCP/71500/2017; 1143/EC/SEIAA/KL/2017)**

Capital Region Development Project (CRDP) submitted an application for Environmental Clearance for the proposed Outer Ring Road (ORR) under CRDP-II, Thiruvananthapuram, Kerala (Southern Ring: Mangalapuram-Thekkada-Vizhinjam) via PARIVESH on 04.02.2022. The Government of Kerala (GOK) is planning to develop an Outer Ring Road (ORR) consisting of four lane (expandable up to six lane) highway for a length of about 77.773 Km bifurcated into Northern Ring (29.00 Km) and Southern Ring (47.973 Km) alignment. The Government of Kerala (GoK) proposes to develop the Outer Ring Road (ORR) under the Capital Region

Development Project (CRDP)–II; CRDP authority will be the Project Proponent. Based on the decision of the 76th SEIAA meeting, ToR was issued to the project on 04.01.2018.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form 1, evaluation report, documents on public hearing, Environmental and Social Impact Assessment Report, detailed PFR and additional details/documents obtained from the Project Proponent during appraisal. After the due appraisal, the SEAC in its 136th meeting, recommended EC for 10 years with certain specific conditions in addition to general conditions.

The Authority decided to issue Environmental Clearance 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. Storm water 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”.*

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

Item No.1

**Extension of Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. P. J. Jacob in Survey No. 65, Anakkara Village, Pattambi Taluk, Palakkad District
(SIA/KL/MIN/232216/2021; 953/A2/2019/SEIAA)**

Sri. P. J. Jacob submitted application for the extension of Environmental Clearance via PARIVESH on 01.10.2021 for the Laterite Building Stone Quarry Project for an area of 0.8097 Ha in Survey. No. 65, Anakkara Village, Pattambi Taluk, Palakkad District.

The Authority perused the proposal and noted that 136th meeting of SEAC recommended 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.

The Authority decided to extend the EC for 2 years for the balance quantity as per approved Mining Plan from the date of execution of mine lease / permit subject to the to specific and general conditions issued in the original EC.

Item No.2

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) at Re Sy Block No.29, Re-Sy No. 120/10, in Manickal Village, Nedumangad Taluk, Thiruvananthapuram (SIA/KL/MIN/292678/2022; 1416/EC1/2019/SEIAA)

Sri. Rajesh Kumar Jha, Chief Executive Officer, M/s. Adani Vizhinjam Port Pvt Ltd., submitted an application for Modification of EC via PARIVESH for the Granite Building Stone Quarry for an area of 1.1081 Ha. (2.7381 Acres) at Re-Sy Block. No.29, Re-Sy No. 120/10, Manickal Village, Nedumangad Taluk, Thiruvananthapuram, Kerala.

The Authority perused the item and examined the Letter dated.24.01.2023 submitted by the Project Proponent to reconsider the decision of 136th meeting of SEAC. On deliberations, the Authority decided the following:

1. The request of the Project Proponent to modify the EC cannot be considered.
2. The Project Proponent shall attend all the non-compliances noticed by SEAC within 6 months including the traffic management plan and carrying capacity study of the area and submit the compliance report.
3. On receipt of the compliance report, the Monitoring Committee shall visit the site to verify the compliance status and submit report to SEIAA.

CONSIDERATION OF TOR PROPOSALS

Item No.1

Application for ToR for the Building stone quarry (Minor Mineral) mining project of M/s Sri Krishnagiri Rock Products Pvt. Ltd at Block 39, Re-Sy Nos. 283/8, 283/9, 283/10 in Kizhakkencherry 2 Village, Alathur Taluk, Palakkad, Kerala (SIA/KL/MIN/404280/2022; 2160/EC1/2022/SEIAA)

Sri. P. K. Prasad, Managing Director, M/s Sri Krishnagiri Rock Products Pvt. Ltd submitted application for ToR via PARIVESH on 10th December 2022 for the Building Stone Quarry Project for area of 12.7031 Ha at Block 39, Re-Sy. Nos. 283/8, 283/9, 283/10 in Kizhakkencherry 2 Village, Alathur Taluk, Palakkad District, Kerala.

The Authority noted that SEAC in its 136th meeting recommended the Standard ToR with certain additional studies. The Authority decided to approve the Standard Terms of Reference with the following additional aspects for EIA Study as recommended by SEAC.

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.

Sd/-
Dr. H. Nagesh Prabhu IFS (Retd)
Chairman, SEIAA

Sd/-
Dr. V. Venu IAS
Member Secretary, SEIAA

Sd/-
Sri. K.Krishna Panicker
Member, SEIAA