

PARIVESH FILES

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 **Environmental Clearance to Sri. Babu.P for Granite Building Stone Quarry for a area 0.8673 Ha at Survey No. 535/1 in Thayannur Village, Vellarikkund Taluk, Kasaragod District, Kerala**
(SIA/KL/MIN/148066/2020; 1693/EC2/2020/SEIAA)

Sri. Babu P., Periyadath House Mundiyanam, Thayannur (P.O) Parappa Kasaragod, vide application received on 30.07.2020, sought Environmental Clearance for the proposed Granite Building Stone Quarry at Survey No. 535/1 in Thayannur Village, Vellarikkund 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. As per the approved mining plan, mine life is 5 years. After the due appraisal, the SEAC in its 141st 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. Development of green belt using indigenous species should be initiated prior to the commencement of mining.*

4. *The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
5. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.*
6. *Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration*
7. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the half yearly compliance report (HYCR).*
8. *Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
9. *Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites*
10. *CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.*
11. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
12. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
13. *Adequate energy conservation measures should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power*
14. *Environment Management Cell (EMC) should include one subject expert in environment management. The proceedings of the monthly meeting of the EMC should be submitted along with the HYCR.*
15. *Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.*
16. *The transportation from the quarry should be done only using the trucks suitable for rural roads in India as per the guidelines of the Indian Road Congress.*
17. *As the project site is located in an abandoned quarry the possible and relevant*

final mine closure activities as per the previous approved mining plan shall be carried out and the activities so carried out shall be mentioned in the half yearly completion report.

- 18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority.*
- 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.2

**Environmental Clearance for the Proposed Granite Building Stone Quarry of M/s Puthalam Construction Private Limited for an area of 2.0235 Ha at Block No. 64, Re-Survey Nos. 21/149, 21/124, 21/145, 21/148, 21/147, 21/156, 21/144 (Old Sy. No. 21/1A1) in Kolayad Village, Thalassery Taluk, Kannur, Kerala.
(SIA/KL/MIN/195129/2021; 1893/EC4/2021/SEIAA)**

The Authority perused the item and noted that as per field inspection report about 5m depth of over-burden (19975MT) have to be removed from the project site. Since, a huge quantity of overburden has to be removed from the project site, Authority would like to hear from the Project Proponent about the proposed overburden management.

Authority decided to hear the project proponent in the next SEIAA meeting to clarify the details regarding the quantity of topsoil/overburden, management plan, area proposed for storage, protective measures to be adopted to avoid the seepage of overburden, etc. The intimation regarding the hearing shall be given to the project proponent well in advance.

Item No.3

**Environmental Clearance for Granite Building Stone Quarry project of Sri. Rajendran Nair for an area of 1.1862 Ha at Re-Sy Nos. 233/10, 233/11, 233/12, 233/13, 233/14, 233/15, 233/16, 233/22, 233/23, 234/4, 234/6, 234/7, 234/8 & 234/36 in Pullampara Village, Nedumangad Taluk, Thiruvananthapuram
(SIA/KL/MIN/195590/2021; 2041/EC1/2022/SEIAA)**

Sri. Rajendran Nair TC-84/969, (APRA-92B), Palkulangara, Petta (PO), Thiruvananthapuram - 695 024, submitted an application for Environmental Clearance via PARIVESH for Granite Building Stone Quarry project for an area of 1.1862 Ha at Re-Sy Nos. 233/10, 233/11, 233/12, 233/13, 233/14, 233/15, 233/16, 233/22, 233/23, 234/4, 234/6, 234/7, 234/8 & 234/36 in Pullampara Village, Nedumangad Taluk, Thiruvananthapuram.

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. As per the approved mining plan mine life is 8 years. After the due appraisal, the SEAC in its 141st meeting recommended EC for a Project Life of 8 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 8 years, from the 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.

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. A buffer distance of 50m should be maintained from the boundary of quarry to the crusher.*
- 5. Correction measures for the steep side of the abandoned quarry should be done prior to the commencement of mining.*
- 6. The height and width of all the benches should be maintained as 5 x 5.*
- 7. Development of green belt using indigenous species should be initiated prior to the commencement of mining.*
- 8. The impact of vibration due to blasting on the houses and built structures within 200m*

- should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
- 9. 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.*
 - 10. Overflow water from the siltation pond should be discharged to the natural drain after adequate filtration*
 - 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 half yearly compliance report (HYCR).*
 - 12. Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
 - 13. Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites*
 - 14. CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.*
 - 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 should be implemented including solar power installations. At least 40% of the energy requirement shall be met from the solar power.*
 - 18. 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.*
 - 19. Compensatory afforestation plan should be implemented as proposed.*
 - 20. The ultimate mine depth should be limited to 100m AMSL*
 - 21. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Ground water Authority*
 - 22. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
 - 23. 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.*

24. 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.

25. 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.

26. 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.

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

Item No.4

Environmental Clearance for the Proposed Granite Building Stone Quarry, M/s SRI SRI GRANITES at Block No: 12, Re-Sy Nos: 664/2, 664/19, 665/22, 665/13, 666/36, 666/34 in Kuthanur-I Village, Alathur Taluk, Palakkad, Kerala (SIA/KL/MIN/262881/2022; 1956/EC1/2022/SEIAA)

Sri. V. Sasidharan, Managing Partner, M/s Sri Sri Granites, Peecha Road, Chithali, Palakkad submitted an application for Environmental Clearance for the proposed Granite Building Stone Quarry of M/s Sri Sri Granites at Block No:12, Re-Survey Nos: 664/2,664/19, 665/22, 665/13, 666/36, 666/34 in Kuthanur-I Village, Alathur Taluk, Palakkad, 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. As per the approved mining plan mine life is 5 years. After the due appraisal, the SEAC in its 141st 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. *Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the area shall be submitted in HYCR.*
4. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
5. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
6. *Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
7. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
8. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
9. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
10. *Adequate sanitation, waste management and restroom facilities should be provided to the workers.*
11. *Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office. A minimum of 40% of the energy requirement shall be met from solar energy.*
12. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
13. *If the abandoned quarry located near to the site belong to project proponent, he/she shall carry out final closure plan within 6 months as per the approved mine closure plan and submit the progress of the closure activities along with the HYCR.*
14. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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.5

**Granite (Building Stone) Quarry of Sri. G Rajeevan, Managing Partner, M/s Koodal Granites at Block No. 30, Survey Nos: 404/3, 404/4, 404/5, 404/7, 404/7 -1 in Koodal Village, Konni Taluk, Pathanamthitta, Kerala
(SIA/KL/MIN/263676/2022; 1982/EC1/2022/SEIAA)**

Sri. G Rajeevan, Managing Partner, Koodal Granites, Jaya Mandiram, Kudavathoor P.O, Kollam submitted an application for Environmental Clearance via PARIVESH for the Granite (Building Stone) Quarry at Block No. 30, Survey Nos: 404/3, 404/4, 404/5, 404/7, 404/7 -1 in Koodal 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 2, Pre-Feasibility Report, EIA Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. As per the approved mining plan mine life is 6 years. After the due appraisal, the SEAC in its 141st meeting recommended EC for a Project Life of 6 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 6 years, from the 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.

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. Road leading to the site is narrow and is not feasible for transportation of material from the mine. So, road should be widened the road with 7m width as per the submitted plan before commencement of mining.*
- 5. Soil thickness of the site is high and therefore, the soil protection measures should*

be implemented.

- 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 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. 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. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least, 40% of the energy requirement of the project should be met from the solar power.*
- 16. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority.*
- 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.6

Granite Building Stone Quarry project of Sri. Sukumaran, President of Ottappalam Taluk Karinkal Quarry Operators Industrial Co-Operative Society Ltd at Re. Survey No. 495 in Ananganadi Village, Ottapalam Taluk , Palakkad (SIA/KL/MIN/268812/2022; 2101/EC1/2022/SEIAA)

Sri. Sukumaran, President of Ottappalam Taluk Karinkal Quarry Operators submitted an application for EC via PARIVESH for the Granite Building Stone quarry project in an extent of 0.3332 Ha at Re. Survey No. 495 in Ananganadi Village, Ottapalam Taluk, Palakkad.

The Authority reviewed the proposal and took note of the decisions made during

various SEAC meetings held on different dates. The Authority observed that in its 135th meeting, the SEAC thoroughly examined the proposal and commented that the site is located on the summit portion of an elongated hill ridge. The conservation of the hill ridge is crucial for the microclimate of the region. It was found that the investment required to operate a mine in such a small area, while ensuring environmental and social safeguards, is significantly higher than the proposed project cost. Therefore, the committee concluded that establishing a small mine on the summit of a ridge may not be financially viable. However, the final recommendation of the SEAC in its 141st meeting contradicts this above observations.

Furthermore, it is also noted that in its previous meeting, the Authority had already inquired SEAC about the feasibility of scientific mining in an area less than 0.5 hectares.

Authority decided to refer the proposal back to the SEAC for a reassessment of the feasibility of such small-scale mining on the summit of a ridge.

Item No.7

Environmental Clearance for the proposed Laterite building stone quarry of Sri. Ashraf. K, over an extent of 0.8094 Ha at Re Survey No. 64/75, in Ulliyeri village, Koyilandy Taluk, Kozhikode, Kerala (SIA/KL/MIN/285616/2022; 2107/EC4/2022/SEIAA)

Sri. Ashraf K., S/o Abdurahman, Kalathingal House, Perumanna P.O, Kozhikode-673019 submitted an application through PARIVESH on 28.07.2022 for Environmental Clearance for the proposed Laterite Building Stone Quarry Project for an area of 0.8094 Ha at Re. Sy. No. 64/75 in Ulliyeri Village, Koyilandy Taluk, Kozhikode, Kerala.

The Authority noted the action taken by SEAC in its 133rd, 135th & 141st meetings held on different dates. The Committee in its 141st meeting verified the proposal and observed the following in the field inspection report.

1. The area forms top of a hillock, which is moderately sloping towards the west.
2. Exposed laterite, grass lands and bushes with intermittent trees are noticed in the project site. Santalum album is found growing intermittently in the site.
3. Water resources meant for quarry operations are not seen within the project site.
4. An educational institution (M-Dasan College of Engineering) is seen nearer to the project site.
5. Presently there is no direct access road to the project site. The sub Committee entered the project site through the main gate of the nearby educational institution.

Based on discussions, the Committee noted that the road leading to the proposed site is through an educational institution. It is not a feasible option. Therefore, considering the transportation constraints and other observations in the FIR, the Committee decided to recommend rejection of the proposal.

Authority agreed to the recommendation of SEAC to reject the proposal and inform the same to the Project Proponent quoting the reasons for rejection.

Item No.8 **Environment Clearance for the Granite Building Stone Quarry Project of M/s V K Stone Crusher for an area of 3.7324 hectares at Re-Sy Block No. 59, Re-Survey Nos. 6/527, 6/526, 6/537, 6/600, Vellarvally Village, Iritty Taluk, Kannur, Kerala (SIA/KL/MIN/286117/2022; 2067/EC4/2022/SEIAA)**

The Authority perused the item and noted that SEAC recommended to reject the project citing several reasons. The project requested an opportunity of hearing before taking a final decision. The Authority decided to refer the case to SEAC to hear the project proponent and make recommendation considering the explanation of the Project Proponent.

Item No.9 **Environmental Clearance for the Proposed Laterite Building Stone Quarry project of Sri. Abdul Asees K.P, for an area of 0.1942 Ha, at Block No. 92, Re-Survey No: 23/813 in Kaliyad Village, Iritty Taluk, Kannur, Kerala. SIA/KL/MIN/404478/2022; 2142/EC4/2022/SEIAA)**

Sri. Abdul Asees K.P, S/o Muhammed, Nafiya Manzil, Olakkad, Mayyil P.O, Kannur – 670602 submitted an application through PARIVESH on 28.10.2022 for Environmental Clearance for the proposed Laterite Building Stone Quarry Project, for an area of 0.1942 Ha at Re. Sy .Block No. 92, Re. Sy. No. 23/813 at Kalliad Village, Iritty Taluk, Kannur, 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. As per the approved mining plan mine

life is 1 year. After the due appraisal, the SEAC in its 141st meeting, recommended EC for the mine life 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 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 a useful purpose.*
- 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 project area.*
- 13. No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.*
- 14. The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.*

15. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
16. *Measures incorporated in the CER should be implemented within 6 months from the date of EC.*
17. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 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. 10

Environmental Clearance for Laterite building stone quarry of Sri. Aji for an area of 0.1886 Ha, at Re-Survey Nos. 33/225, 33/262 in Kakkad Village, Kozhikode Taluk, Kozhikode, Kerala. (SIA/KL/MIN/405222/2022; 2145/EC4/2022/SEIAA)

Sri. Aji, S/o Krishnan, Kuzhimbattil House, Perumanna P.O, Kozhikode-673019 submitted an application through PARIVESH on 05.11.2022 for Environmental Clearance for the proposed Laterite Building Stone Quarry Project for an area of 0.1886 Ha at Re. Sy. Nos. 33/225, 33/262 in Kakkad Village, Kozhikode Taluk, Kozhikode, 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. As per the approved mining plan mine life is 1 year. After the due appraisal, the SEAC in its 141st meeting, recommended EC for the mine life 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 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 a useful purpose.*
- 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 project area*

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

**Environment Clearance for the proposed Laterite Building Stone Quarry Project of Sri. C. P. Sugunan for an area of 0.2913 Ha at Re. Survey No: 26/162 in Panappuzha Village, Payyannur Taluk, Kannur, Kerala.
(SIA/KL/MIN/407328/2022; 2157/EC4/2022/SEIAA)**

Sri. C. P. Sugunan, S/o Achuthan, Sreyas, Pallikunnu P.O, Kannur-670004 submitted an application through PARIVESH on 21.11.2022 for Environmental Clearance in SEIAA for the proposed Laterite Building Stone Quarry Project for an area of 0.2913Ha at Re. Sy. No. 26/162 in Panappuzha Village, Payyannur Taluk, Kannur, 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. As per the approved mining plan mine life is 1 year. After the due appraisal, the SEAC in its 141st meeting, recommended EC for the mine life of -three-years, subject to certain Specific Conditions in addition to the General Conditions.

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. The excavation activity associated should not involve blasting.*
- 4. The excavation activity should be restricted to 2m above the groundwater table at the site.*
- 5. The excavation activity should not alter the natural drainage pattern of the area*
- 6. The excavated pit should be restored by the project proponent for useful purpose*
- 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 project area*
13. *No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.*
14. *The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.*
15. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
16. *Measures incorporated in the CER should be implemented 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.12

Application for Environmental Clearance for the quarry project for an area of 1.8227 Ha at Sy. No. 85 pt in Pulamanthole Village, Perinthalmanna Taluk, Malappuram - Judgment of Hon'ble High Court of Kerala in WP(C) No.41905/2017 (SIA/KL/MIN/422595/2023; 2017/A2/2018/SEIAA)

Application for Environmental Clearance was submitted to DEIAA Malappuram by Shri. Najeed Ali M.K for the granite stone building stone quarry project for an area of 1.8227 Ha in Sy. No. 85pt, Pulamanthole Village, Perinthalmanna Taluk, Malappuram.

Shri. Shoukath Ali filed WP(C) No.41905/2017 (K) in which the Hon'ble High Court of Kerala in its Judgment dated 11.04.2018 directed SEIAA to consider the application and pass orders therein and to submit a copy before the Hon'ble Court within 3 months from the date of receipt of files receiving from DEIAA. The DEIAA, Malappuram forwarded the whole file to SEIAA. As per the direction of 112th meeting of SEIAA, Order dated.03.11.2021 was issued in compliance to the judgment dated.11.04.2018 of the Hon'ble High Court.

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. As per the approved mining plan mine life is 12 years. After the due appraisal, the SEAC in its 138th 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 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.

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. *A temporary wall on the southern side of the proposed quarry should be set up to prevent any impact on the houses located on the southern side*
5. *Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the proposed site should 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. *The mitigation measures recommended in the EMP should be strictly implemented.*

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. *If the abandoned quarry located near to the site belong to project proponent, he/she shall carry out final closure plan within 6 months as per the approved mine closure plan and submit the progress of the closure activities along with the HYCR.*
16. *As the project site is located in an abandoned quarry the possible and relevant final mine closure activities as per the previous approved mining plan shall be carried out and the activities so carried out shall be mentioned in the half yearly completion report.*
17. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least, 40% of the energy requirement of the project should be met from the solar power.*
18. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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.13

**Environmental Clearance for quarry project by M/s Sree Dhanya Metals at Survey Nos. 269/1, 269/1-1, 269/3, 269/4, 269/5, 269/5-1, 269/6, 269/8, 269/8-1, 269/17-1, 269/17-2, 270/6, 270/7-1, 270/8-1, 270/8-2, 270/9, 270/10, 270/11-1, 270/11-2, 272/11, 272/12, 272/13, 272/21, 272/14-1, 273/1-2 in Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram
SIA/KL/MIN/70164/2019, 1393/EC2/2019/SEIAA**

Sri. Chandrababu G., Managing Partner, M/s Sreedhanya Metals S/o Gangadharan 570/1, Sreedhanya, Sasthamangalam, Thiruvananthapuram submitted an application for Environmental Clearance via PARIVESH for quarry project at Survey Nos. 269/1, 269/1-1, 269/3, 269/4, 269/5, 269/5-1, 269/6, 269/8, 269/8-1, 269/17-1, 269/17-2, 270/6, 270/7-1, 270/8-1, 270/8-2, 270/9, 270/10, 270/11-1, 270/11-2, 272/11, 272/12, 272/13, 272/21, 272/14-1, 273/1-2 in Pallichal Village, Neyyattinkara Taluk, Thiruvananthapuram.

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. As per the approved mining plan mine life is 10 years. After the due appraisal, the SEAC in its 141st 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 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.

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. Compensatory afforestation should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.*
- 5. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.*
- 6. Outflow channel from the abandoned pit should be enlarged to contain the entire overland flow of the adjacent sloppy region of the quarry.*
- 7. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
- 8. Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
- 9. The overburden dumping site should be protected with gabion walls to prevent erosion.*
- 10. The impacts due to blasting on all the built structures within 500m should be*

monitored and the results submitted along with HYCR.

- 11. The haulage road for about 100m should be developed prior to the commencement of mining activities. It should be maintained well and dust-free with permanent sprinkling arrangement.*
- 12. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 13. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.*
- 14. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 40% of the energy requirement shall be met by the solar energy.*
- 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. Buffer zones should be demarcated and planted with plants, climbers, and herbs of local species as mentioned in the biodiversity assessment report.*
- 17. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 18. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
- 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.14

Environmental Clearance for the Building Stone Quarry Project at Re-Survey No. 8/9, in Alakkod Village, Thodupuzha Taluk, Idukki, Kerala by Mr. U. I. John, Managing Partner, M/s Marthoma Granites - Judgment of Hon'ble Supreme Court in C.A. No. 878/16 arising from SLP(C) 27079/2011 filed by M/s Marthoma Granites (SIA/KL/MIN/83001/2017; 1413(A)/EC1/2019/SEIAA)

Sri. U. I. John, Managing Partner, M/s Marthoma Granites, Alakkodu Village, Thodupuzha Taluk, Idukki, Kerala, submitted an application for Environmental Clearance under EIA Notification, 2006 for the quarry project for an area of 7.4590 Ha at Sy. No. 8/9, in Alakkodu Village, Thodupuzha Taluk, Idukki, 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 140th meeting recommended EC for mining the remaining resource of 18,16,550 MT at the rate of 1,75,000 TPA for 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 of 18,16,550 MT at the rate of 1,75,000 TPA, and then to extend the EC period to cover the project life of 10 years, from the 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.

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. Progress of implementation of approved remediation and damage assessment plan should be incorporated in HYCR*
- 5. Development of green belt using indigenous species should be initiated prior to the commencement of mining.*
- 6. The impact of vibration due to blasting on the houses and built structures within 200m should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
- 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. Overflow water from the siltation pond should be discharged to the nearby natural drain after adequate filtration*

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 half yearly compliance report (HYCR).*
10. *Drainage water should be monitored at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
11. *Overburden should be stored at the designed place and gabion wall should be provided for the topsoil and overburden storage sites*
12. *CER Plan should be implemented within the first 2 years and it should be operated and maintained till the mine closure plan is implemented.*
13. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
14. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
15. *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.*
16. *Adequate number of avenue trees of indigenous species should be planted along both sides of the haulage road.*
17. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least, 40% of the energy requirement of the project should be met from the solar power.*
18. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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.*

CONSIDERATION OF TOR PROPOSALS

Item No.1

**Al-Azhar Medical College and Super Speciality Hospital, Re-Survey No.: 99/5, 100/1, 84/1, 84/3/4, 84/4/2, 84/3/5, 84/3/1, 84/1/1, 406/5, 406/1, 84/3/1, 84/4/1, 84/3/2, 404/1, 404/3, 88/3, 88/2, 88/1, 406/3, 406/6, 89/7, 82/2, 89/6, 398/3, 398/9, 405/1 Kumaramangalam Village, Thodupuzha Taluk, Idukki District, Kerala.
(SIA/KL/INFRA2/421264/2023, File No: 2014/EC3/2022/SEIAA)**

Sri. Pradeep Kumar, CEO, Al-Azhar Medical College and Super Speciality Hospital, Thodupuzha-Ezhalloor Road, Kumaramangalam, Idukki, Kerala submitted an application for Environmental Clearance *via* PARIVESH Portal on 10 Mar 2023, for the construction of Al-Azhar Medical College and Super Specialty Hospital, Re-Survey No. 99/5, 100/1, 84/1, 84/3/4, 84/4/2, 84/3/5, 84/3/1, 84/1/1, 406/5, 406/1, 84/3/1, 84/4/1, 84/3/2, 404/1, 404/3, 88/3, 88/2, 88/1, 406/3, 406/6, 89/7, 82/2, 89/6, 398/3, 398/9, 405/1 Kumaramangalam Village, Thodupuzha Taluk, Idukki, Kerala.

The Authority noted that SEAC in its 141st meeting examined the proposal and observed that the proposal has to be treated under violation of EIA notification 2006 and is required to invoke the SOP for identifying and handling of violation cases. Accordingly, the Committee decided to approve Terms of reference for conducting EIA studies as per OM 28.01.2022 and 07.07.2021.

The Authority decided to approve the Terms of Reference for conducting EIA study as per OM 28.01.2022 and 7.7.2021 as recommended by SEAC.

Item No.2

**Application for ToR for the proposed Integrated Manufacturing Cluster (IMC) in Kerala under Kochi-Bengaluru Industrial Corridor (KBIC) at Kannambra I Village, Alathur Taluk, Palakkad District
(SIA/KL/INFRA2/421647/2023; 2238/EC1/2023/SEIAA)**

Sri. Santhosh Koshy Thomas, Managing Director, Kerala Industrial Corridor Development Corporation Limited submitted application for ToR via PARIVESH on 17.03.2023 for the proposed Integrated Manufacturing Cluster (IMC) under Kochi-Bengaluru

Industrial Corridor (KBIC) at Kannambra I Village, Alathur Taluk, Palakkad District for the Palakkad Node in Kerala. The Authority noted that SEAC in its 141st meeting recommended Standard ToR for conducting the EIA studies along 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. Necessity and feasibility of primary treatment at the individual industry level prior to letting out the effluents to common treatment plant for improving efficiency.*
- 2. Overall water use in the basin is to be examined to ensure that the drawl of water for industrial use will not cause shortage of water for use in agriculture and drinking water. Additional water conservation and harvesting measures are to be considered to overcome this problem.*

Item No.3

**Application for ToR for the Granite Building Stone Quarry of M/s. Raveendra Rock Products Private Limited at Re-Sy Block No: 27, Re-Sy. Nos: 132/2, 132/2-1, 132/2-2, 132/2-3, 137/1-2, 137/2, 137/3, 137/4, 137/5, 137/6, 137/7, 137/8, 137/8-1, 137/9, 137/10, 137/11, 137/12-1, 137/12-2, 138/3, 138/4, 138/5, 138/6, 138/7-2, 138/8, 139/2, 139/2- 2, 139/3, 139/4, 139/5, 139/6, 139/7, 139/7-1, 139/10 & 139/11 in Ezhumattoor Village, Mallappally Taluk, Pathanamthitta District
(SIA/KL/MIN/422416/2023; 2240/EC1/2023/SEIAA)**

Sri. S. Raveendran Managing Director, M/s. Raveendra Rock Products Private Limited submitted an application for ToR via PARIVESH on 24.03.2023 for the Granite Building Stone Quarry for an area of 5.9086 Ha at Re-Sy Block No: 27, Re-Sy. Nos: 132/2, 132/2-1, 132/2-2, 132/2-3, 137/1-2, 137/2, 137/3, 137/4, 137/5, 137/6, 137/7, 137/8, 137/8-1, 137/9, 137/10, 137/11, 137/12-1, 137/12-2, 138/3, 138/4, 138/5, 138/6, 138/7-2, 138/8, 139/2, 139/2- 2, 139/3, 139/4, 139/5, 139/6, 139/7, 139/7-1, 139/10 & 139/11 in Ezhumattoor Village, Mallappally Taluk, Pathanamthitta.

The Authority noted that SEAC in its 141st meeting examined the proposal and verified the documents submitted by the proponent and recommended Standard ToR for conducting the EIA studies along 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. *Vibration studies to evaluate the zone of influence and impact of blasting on the neighbourhood as suggested in para (e) of OM No Z -11013/57/2014-IA.II (M) dated 29-10-2014 of MoEF&CC*
2. *Breach potential study.*
3. *Impact of vibration due to blasting on all the built structures within a distance of 500m from the project boundary.*

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

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

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