

PARIVESH FILES

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No. 1 **Environment Clearance for the Granite Building Stone Quarry of Sri. Shafir P. for an area of 1.5046 Ha at Block No. 1 Re-Sy Nos. 374/782, 374/509, 374/510 in Valat Village, Mananthavady Taluk, Wayanad, Kerala
(SIA/KL/MIN/130005/2019; 1568/EC2/2019/SEIAA)**

Sri. Shafir P, MPK Manzil, Theroor P O, Edayannur, Keezhallur, Kannur 670595 sought Environmental Clearance for the Granite Building Stone Quarry in Block No. 1, Re-Sy Nos. 374/782, 374/509, 374/510 of Valad Village, Mananthavady Taluk, Wayanad.

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 approved mining plan mine life is 5 years. After the due appraisal, the SEAC in its 139th 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. A buffer distance of 50m from the farm shed should be maintained. The scheme of mining and the quantity of mining should be modified accordingly.*
 - 4. 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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
 - 5. 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.*
 - 6. 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.*
 - 7. Outflow channel from the abandoned pit should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.*
 - 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. 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.*
 - 10. The overburden dumping site should be protected with gabion walls to prevent erosion.*
 - 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 20% of the energy requirement of the project should be met from the solar power.
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 local plants, climbers, and herbs as mentioned in the biodiversity assessment report.
17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority
18. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.
19. 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.
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. 2

Environment Clearance for the Granite Building Stone Quarry of Sri. Sibi Peter for an area of 0.9037 Ha at Survey Nos. 253/62, 253/356, 253/349 in Valad Village, Mananthavady Taluk, Wayanad, Kerala (SIA/KL/MIN/133062/2019; 1576/EC2/2019/SEIAA)

Sri. Biju Khan, Biju Manzil, Mylakadu (PO), Kollam 691 571 sought Environmental Clearance for the proposed Granite Building Stone Quarry at Survey Nos. 253/62, 253/356, 253/349 of Valad Village, Mananthavady Taluk, Wayanad.

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. Mine life as per approved mining plan 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. 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. Garland drain 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. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.*
9. *The overburden dumping site should be protected with gabion walls.*
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. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
12. *The 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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
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 local plants, climbers and herbs as mentioned in the biodiversity assessment report.*
17. *Change the boundary pillars with concrete pillars of 4ft height with a minimum size of 4 inch x 4 inch.*
18. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*

19. *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.*
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. 3 **Environment Clearance for Ordinary Earth Project of Mr. Binu K. Alias, Kizhakkethenattumoolayil House, Vadayambady P.O., for an extent of 0.6200 ha at Block No. 49 Re-Sy Nos. 132/5, 132/6, 132/14, 132/22 in Aikarand South Village, Kunnathunad Taluk, Ernakulam, Kerala (SIA/KL/MIN/135339/2020; 2027/EC3/2022/SEIAA)**

Sri. Binu K. Alias, Kizhakkethenattumoolayil House, Vadayambady P.O, applied for Environmental Clearance for the mining of Ordinary Earth Project, for an extent of 0.6200 Ha at Block No. 49, Re-Sy. Nos: 132/5, 132/6, 132/14, 132/22, in Aikarand South Village, Kunnathunad Taluk, Ernakulam.

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 139th 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, subject to the following Specific Conditions in addition to the General Conditions.

- 1. Instead of the extraction depth in the mining plan (i.e., up to 18m), the project proponent shall extract soil to a depth of 2m below ground level leaving a buffer of 50m between the boundary of the proposed pit and the nearest building subject to other specific conditions of the EC.*
- 2. The quantity of ordinary earth to be extracted should be revised by the Mining and Geology Department as per the specific condition no. 1 and issue permit accordingly.*
- 3. The Project Proponent shall should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 4. 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.

- 5. The activity associated with borrowing/excavation of brick earth and ordinary earth should not involve blasting*
- 6. The borrowing/excavation activity should be restricted to a maximum depth of 2m below general ground level at the site.*
- 7. The borrowing/excavation activity should be restricted to 2m above the ground water table at the site.*
- 8. The borrowing/excavation activity should not alter the natural drainage pattern of the area.*
- 9. The borrowed/excavated pit should be restored by the project proponent for useful purposes.*
- 10. Appropriate fencing all around the borrowed/excavated pit should be made to prevent any mishap.*
- 11. Measures should be taken to prevent dust emission by covering of borrowed/excavated earth during transportation.*
- 12. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to borrowing/excavation of earth.*
- 13. Workers/labourers should be provided with facilities for drinking water and sanitation.*
- 14. A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.*
- 15. A minimum distance of 15m from any civil structure should be kept from the periphery of the excavation area.*
- 16. 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.*
- 17. 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.*
- 18. The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
- 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).

Item No. 4 Environmental Clearance for the proposed Granite Building Stone Quarry Project of M/s Surya Crusher & Hollow at Re-Sy. Nos. 9/1A, 335 in Kolavallur Village, Thalassery Taluk, Kannur, Kerala (SIA/KL/MIN/136899/2020; 1830/EC4/2020/SEIAA}

Sri. Ravi Paleri, Proprietor, M/s Surya Stone Crusher & Hollow Bricks, Kalluvalappu, Cheruparamba P.O, Kannur submitted an application through PARIVESH for Environmental Clearance for the proposed Granite Building Stone Quarry Project for an area of 2.0233 Ha, at Re-Sy. Nos. 9/1A, 335 in Kolavallur Village, Thalassery Taluk, Kannur.

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 approved mining plan, mine life is 10 years. After the due appraisal, the SEAC in its 138th 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. Due to mining there will be a quarry pit developed with a depth around 25m. Therefore adequate protective measures should be taken as a precaution to accidents.*
- 5. 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.*
- 6. 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.*
- 7. Garland drain should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.*
- 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. 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

- 10. The overburden dumping site should be protected with gabion walls to prevent erosion.*
- 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. The local road passing through the project site shall not be damaged and if required the maintenance operations may be carried out under CER.*
- 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 20% of the energy requirement of the project should be met from the solar power.*
- 15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
- 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. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.*
- 18. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 19. The maximum water column should be limited to 10m bgl, accordingly appropriate drainage mechanism should be adopted.*
- 20. 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.*
- 21. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
 - 22. 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.*
 - 23. 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.*
 - 24. 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.*
 - 25. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No. 5

Environmental Clearance for the proposed Granite Building Stone Quarry Project of M/s Sainaba Granites, at Re-Sy. Nos. 159/447 (159/1A1) in Thinur Village, Vadakara Taluk, Kozhikode, Kerala (SIA/KL/MIN/140565/2020; 1744/EC4/2020/SEIAA)

Smt. Sainaba V.P, Partner, M/s Sainaba Granites, Indhira Nagar P.O, Kozhikode-673506 submitted an application through PARIVESH for Environmental Clearance for the proposed Granite Building Stone Quarry Project for an area of 0.9996 Ha, in Re-Sy. Nos. 159/447 (159/1A1) in Thinur Village, Vadakara Taluk, Kozhikode.

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. Life of mine as per application is 5 years. After the due appraisal, the SEAC in its 139th 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 of 165117 MT by limiting the depth of mining to 100m amsl, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The depth of mining should be limited to 100m amsl and the quantity of extraction shall be reduced to 165117 MT. The scheme of mining should be prepared and approved by Mining and Geology Department accordingly.*
- 2. The transport (moving) permit shall be issued only after getting the approval of the District Level Crisis Management Group for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 3. 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.*
- 4. 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.

- 5. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 6. The mining should start from the western part of the quarry and proceed to the east and reducing the slope of the terrain.*
- 7. Prevent any water logging in the area since the clay content of the soil is slightly elevated.*
- 8. Natural drainage should not be prevented while building haulage road. Wherever drains cross roads, proper culverts should be constructed to allow for the free flow of surface water.*
- 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. Outflow channel should be enlarged to contain the entire overland flow of the quarry and its surroundings.*
- 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. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
- 13. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report. Grow native plants and trees in the areas close to the quarry site. More Bamboo sp. must be planted in the buffer zone and surrounding areas to prevent soil erosion.*
- 14. The loose boulders spread over the project area should be removed cautiously as per the boulder removal plan submitted to SEIAA.*
- 15. 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.*

16. *Because of the thinness of the soil column, use geotextiles on the slopes to prevent soil erosion.*
17. *Plans for proper terrain restoration should be implemented.*
18. *Impact of vibration due to blasting on the nearest houses and built structures upto 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.*
19. *The overburden dumping site should be protected with gabion walls with weep holes.*
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. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.*
22. *Adequate sanitation, waste management, and rest room facilities should be provided to the workers.*
23. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
24. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
25. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
26. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
27. *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.*
28. *Necessary slope stabilization measures should be developed as recommended in the landslide vulnerability study submitted before SEIAA.*
29. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*

30. 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.
31. 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.
32. 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.
33. 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 Building Stone Quarry project of Sri. K.V Bhaskaran at Re-Sy. Nos. 179/1, 182/1, 2, in Kayyur Village, Hosdurg Taluk, Kasargod, Kerala.
(SIA/KL/MIN/142587/2020; 1665/EC2/2020/SEIAA)**

Sri. K.V Bhaskaran, submitted an application for Environmental Clearance via PARIVESH Portal for the Granite Building Stone Quarry, for an area of 0.6355ha at Re-Sy Nos. 179/1, 182/1, 2 in Kayyur Village, Hosdurg Taluk, Kasargod.

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 approved mining plan mine life is 5 years. 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. Both the natural streams should be protected without any obstruction for allowing discharge especially during the rainy seasons.*
- 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 should be enlarged to carry the entire overland flow of the adjacent slopy 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. 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.*

9. *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.*
10. *The overburden dumping site should be protected with gabion walls to prevent erosion.*
11. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
12. *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. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
14. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
15. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
16. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least, 20% of the energy requirement of the project should be met from the solar power.*
17. *The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR*
18. *Boundary Pillars should be properly marked and fencing should be done properly*
19. *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.*
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 Granite Building Stone quarry of Sri. V.V Divakaran at Block No. 26, Re-Sy Nos. 355/2, 355/5 at Muthuthala Village, Pattambi Taluk, Palakkad, Kerala (SIA/KL/MIN/142845/2020; 1409/EC2/2019/SEIAA)**

Sri. V.V Divakaran submitted application for Environmental Clearance via PARIVESH for the Granite Building Stone quarry over an extent of 1.3990 Ha at Block No. 26, Re-Sy Nos. 355/2, 355/5 in Muthuthala 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 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 the mine life is 10 years. After the due appraisal, the SEAC in its 139th 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. Removal of sandal trees from the site should be done after obtaining permission from the Forest department. Sandal should be planted in 20 cents within 1 acre proposed for compensatory afforestation. Necessary technical input for sandal planting and for nursery*

stock institutions like KFRI may be contacted. The planted sandal seedlings shall be nurtured till the end of project period.

- 5. Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.*
- 6. Impact of vibration due to blasting on the houses and built structures within 200m from the project boundary should be monitored in terms of peak particle velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.*
- 7. 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.*
- 8. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.*
- 9. Garland drain should be enlarged to contain the entire overland flow of the adjacent slope region of the quarry.*
- 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. 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.*
- 12. The overburden dumping site should be protected with gabion walls with weep holes.*
- 13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 14. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.*
- 15. Adequate sanitation, waste management, and rest room facilities should be provided to the workers.*
- 16. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
- 17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines*

issued by the Central Groundwater Authority

- 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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 20. As the project site is located in an abandoned quarry the possible and relevant final mine closure activities as per the approved mining plan shall be carried out and the activities so carried out shall be mentioned in the half yearly completion report.*
- 21. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
- 22. 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.*
- 23. 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.*
- 24. 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.

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

Item No.8 Environment Clearance for Granite building stone quarry project of Mr. Jiji P Ulahannan, for an area of 0.7091 Ha at Sy No. 73/1B, 73/2B in Muvattupuzha Village, Muvattupuzha Taluk, Ernakulam, Kerala (SIA/KL/MIN/143147/2020; 1755/EC3/2020/SEIAA)

Sri. Jiji P. Ulahannan applied for Environmental Clearance for the Granite Building Stone Quarry Project, for an extent of 0.7091 Ha at Sy No. 73/1B, 73/2B in Muvattupuzha 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. As per the approved mining plan mine life is 3 years. After the due appraisal, the SEAC in its 139th meeting, recommended EC with the project life of 3 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 of 83083 MT by limiting the depth of mining to 45m amsl, subject to the following Specific Conditions in addition to the General Conditions.

- 1. The depth of mining should be limited to 45m amsl and the quantity of extraction shall be reduced to 83083 MT. The scheme of mining should be prepared and approved by Mining and Geology Department accordingly.*
- 2. 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.*

3. *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.*
4. *Impact of vibration due to blasting on the houses and built structures within 200m distance from the project boundary should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
5. *Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.*
6. *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.*
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 should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.*
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 protected with gabion walls.*
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). The road shall be developed to facilitate better transportation.*
13. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with permanent sprinkling arrangement.*
14. *Adequate sanitation, waste management, and rest room facilities should be provided to the workers.*
15. *Adequate energy conservation measures proposed should be implemented including*

solar power installations for street lights and office. At least 20% 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. The Environment Management Cell (EMC) should include an Environment expert and the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted along with the HYCR.*
- 18. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
- 19. If the abandoned quarry located near to the site belong to project Proponent he / she shall carry out final mine closure within 6 months as per the approved mine closure plan and the activities so carried out shall be mentioned in the half yearly completion report.*
- 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.9

**Environment Clearance for the Granite Building Stone Quarry project of Sri. A. M. Chackochan for an area of 0.9993 Ha at Re-Survey Nos. 109/3 & 121/2 in Elamadu Village, Kottarakara Taluk, Kollam, Kerala
(SIA/KL/MIN/146306/2020; 1676/EC2/2020/SEIAA)**

Sri. A. M. Chackochan Managing Partner Aishwarya Granites, Arkkannoor P.O, Elavinmoodu, Ayoor, Kollam, sought Environmental Clearance for the proposed Granite Building Stone Quarry for an area of 0.9993 Ha at Re-Sy Nos. 109/3 & 121/2 in Elamadu Village, Kottarakara Taluk, Kollam.

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 138th 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 should be initiated prior to the commencement of mining operation.*
4. *Compensatory afforestation should be initiated prior to the commencement of mining and the coordinates and geo-tagged photographs of the site should be incorporated in the 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. *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.*
7. *Gabion wall of should be provided at the overburden dumping site.*
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 with frequent sprinkling.*
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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
13. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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. *The Environment Management Cell (EMC) should include an Environment expert the proceedings of the monthly meeting of the Environment Management Cell (EMC) should be submitted 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. *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 Granite Building Stone Quarry Project of Sri. Kunhalan K., for an area of 0.8165 Ha at Block No. 59 at Re-Sy Nos. 211/1, 211/3-2 in Pulpatta Village, Ernad Taluk, Malappuram District (SIA/KL/MIN/148123/2020; 1658/EC6/2020/SEIAA)**

Sri. Kunhalan.K, S/o Muhammed, Thakkamkulam House, Amayur P.O, Malappuram submitted an application in SEIAA through PARIVESH for Environmental Clearance for the Granite Building Stone Quarry for an area 0.8165 Ha at Block No. 59, Re-Sy Nos. 211/1, 211/3-2 in Pulpatta 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 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. As per approved mining plan mine life is 5 years. After the due appraisal, the SEAC in its 138th 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 should be done from the 1st year itself and the coordinates and geo-tagged photographs of the site shall be submitted in HYCR.*
4. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.*
5. *Garland drain should be enlarged to contain the entire overland flow of the adjacent slopy region of the quarry.*
6. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
7. *Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
8. *The overburden dumping site should be protected with gabion walls to prevent erosion.*
9. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
10. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
11. *Adequate sanitation, waste management, and rest room facilities should be provided to the workers.*
12. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
13. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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. *Buffer zones should be demarcated and planted with local plants, climbers and herbs as mentioned in the biodiversity assessment report.*
16. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
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.11

Environment Clearance for the proposed Granite Building Stone Quarry of Mr. P.V Paul, for an extent of 0.9905 Ha at Re-Sy No. 263/1 in Thuravoor- Village, Aluva Taluk, Ernakulam, Kerala (SIA/KL/MIN/148486/2020; 1640/EC3/2020/SEIAA)

Sri. P.V Paul, applied for Environmental Clearance for the mining of Granite Building Stone Quarry Project, for an extent of 0.9905 Ha at Re. Sy No. 263/1 in Thuravoor Village, Aluva Taluk, Ernakulam.

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 approved mining plan mine life is 5 years. After the due appraisal, the SEAC in its 139th 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. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
- 4. Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.*

5. *Compensatory afforestation plan should be implemented from the 1st year itself and the geo-coordinates and geo-tagged photographs of the site shall be submitted in HYCR.*
6. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*
7. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
8. *Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
9. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
10. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
11. *The haulage road should be developed and maintained well and dust-free with permanent 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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
14. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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 located near to the site belong to project Proponent, he / she shall carry out final mine closure within 6 months as per the approved mine closure plan.*
17. *Ensure noise level during quarry operation within prescribed limits.*

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.12

**Environmental Clearance for the proposed Granite Building Stone Quarry Project of Sri. M. P. Lalu at Re-Sy. Block No. 37, Re-Sy. Nos. 74/1D pt, 74/608 pt in Kuttur Village, Payyannur Taluk, Kannur, Kerala
(SIA/KL/MIN/149209/2020; 1700/EC4/2020/SEIAA)**

Sri. M. P. Lalu, S/o M. K. Pavithram, Mankudy House, Kodanad P.O, Kurichilakode, Ernakulam submitted an application through PARIVESH for Environmental Clearance for the Granite Building Stone Quarry Project for an area of 1.4336 Ha, at Re-Sy Block No. 37, Re-Sy Nos. 74/1Dpt, 74/608 pt in Kuttur Village, Payyannur 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, 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 135th 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. All the observations/directions made by the Joint Committee and the NGT for the adjacent quarry should be followed during the operation of the quarry.***
- 2. 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.*
- 3. 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.*
 - 4. 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.*
 - 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. Compensatory afforestation/green belt plan should be implemented from the 1st year itself and the coordinates and geo-tagged photographs of the proposed site shall be submitted along with the HYCR.*
 - 7. Garland drain should be enlarged to carry the entire overland flow of the adjacent slopy region of the quarry.*
 - 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. 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.*
 - 10. The overburden dumping site should be protected with gabion walls to prevent erosion.*
 - 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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
 - 15. Adequate facilities should be adopted to harvest the rainwater as per the guidelines*

issued by the Central Groundwater Authority.

- 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. Buffer zones should be demarcated and green belt should be developed by planting trees, climbers and herbs of local species as mentioned in the biodiversity assessment report.*
- 18. Boundary Pillars should be properly marked and fencing should be done properly.*
- 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 the Granite Building Stone Quarry of Mr. Kuttiamu Haji P. M. for an area of 0.8577 Ha at Survey No.174 in Cherukavu Village, Kondotty Taluk, Malappuram (SIA/KL/MIN/151053/2020; 1817/EC6/2020/SEIAA)**

Sri. Kuttiamu Haji P.M, P.M.K. House, Pallikkal P.O, Malappuram submitted an Environmental Clearance application in SEIAA through PARIVESH for the Granite Building Stone Quarry for an area of 0.8577 Ha at Survey No. 174 in Cherukavu Village, Kondotty 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 1, Pre-Feasibility Report, Mining Plan, additional details/documents obtained from the Project Proponent during appraisal, and the Field Inspection Report. As per approved mining plan mine life is 5 years. After the due appraisal, the SEAC in its 139th 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. There is a school at a distance of 102m. Hence blasting time and mineral transportation should be fixed in consultation with school authorities.*

4. *A temporary wall of 4m height should be provided connecting the boundary pillars BP2-BP1-BP6-BP5 facing the main road*
5. *A buffer distance of 50m should be provided from the project boundary to the reported tool shed near BP3.*
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. *Buffer zone should be demarcated and green belt should be developed all along the zone using trees, herbs and climbers of indigenous species.*
8. *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.*
9. *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.*
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. *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.*
12. *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. CER activities should be done in consultation with the school authorities.*
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. Quarrying operation should hinder the public to use the private road.*

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 . At least 20% 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. 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.
20. 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.
21. Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.
22. 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.
23. 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.
24. 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.

25. 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 Granite Building Stone Quarry Project of Sri. Shaukathali, A.K for an area of 1.3230 Ha at Survey Nos. 51/52-1 in Pullippadam Village, Nilambur Taluk, Malappuram (SIA/KL/MIN/163826/2020; 1837/EC6/2020/SEIAA)

Sri. Shaukathali A.K, Ayanikuth House, Pullippadam P.O, Malappuram submitted an Environmental Clearance application in SEIAA through PARIVESH for the Granite Building Stone Quarry for an area of 1.3230 Ha at Survey Nos. 51/52-1 in Pullippadam Village, Nilambur Taluk, Malappuram.

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 the mine life is 10 years. After the due appraisal, the SEAC in its 139th 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 of 282353 MT by limiting the depth of mining at 20m amsl, 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 depth of mining should be limited to 20m amsl considering the depth of water table and the quantity of extraction shall be reduced to 282353 MT. The scheme of mining should be prepared and approved by Mining and Geology Department accordingly.*
- 2. 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.*
- 3. 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.*
- 4. 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.*
- 5. Development of green belt to be initiated prior to the commencement of mining operation.*
- 6. Compensatory afforestation to 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.*
- 8. Haulage road should be developed 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 compliance report.*
- 10. Retaining wall of appropriate height should be provided at the overburden dumping site.*

11. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented.*
12. *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. *The haulage road should be maintained well with frequent sprinkling.*
14. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
15. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% 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.15

Environmental Clearance for the Granite Building Stone Quarry of Sri. Sameer P. for an area of 2.7047 Ha at Re-Sy. Nos. 237/2, 237/1, 237/1-2 in Nediyruppu Village, Kondotty Taluk, Malappuram (SIA/KL/MIN/173485/2020; 1834/EC6/2020/SEIAA)

Sri. Sameer.P, Parakkal House, Melangadi P.O, Kondotty, Malappuram submitted an Environmental Clearance application in SEIAA through PARIVESH for the Granite Building Stone Quarry for an area of 2.7047 Ha at Re. Sy. Nos. 237/2, 237/1, 237/1-2 in Nediyruppu Village, Kondotty Taluk, Malappuram.

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 139th 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. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 5. Road to the project area shall be widened before the initiation of mining activity.*
- 6. Water harvesting measures are to be adopted before the initiation of mining activity.*
- 7. Impact of vibration due to blasting on the nearest houses and built structures, especially the school building 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 a 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. *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 permanent sprinkling arrangement. The private road passing through the Project area shall not be damaged and if required maintenance operations can be carried out under CER.*
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 lights and office. At least 20% 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. *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*
20. *If the three abandoned quarries located near to the site belong to project Proponent, he / she shall carry out final mine closure within 6 months as per the approved mine closure plan and the activities so carried out shall be mentioned in the half yearly completion report.*
21. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks*

and suppress dust.

22. *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.*
23. *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.*
24. *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.*
25. *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 extraction of Granite Building Stone of Mr. Siraj Hussain at Re-Sy No. 281/2-3 in Mundakkayam Village, Kanjirappally Taluk, Kottayam - (Transferring of file from TOR to EC, Granite Building Stone Quarry of Siraj Hussain)
(SIA/KL/MIN/176680/2020; 1877/EC3/2021/SEIAA)**

Sri. Siraj Hussain, Chemparapalliyil House, Nadackal P.O, Erattupetta has applied for Environmental Clearance for the Granite Building Stone Quarry Project, for an extent of 0.9713Ha, at Re-Sy No. 281/2-3 in Mundakkayam Village, Kanjirappally Taluk, Kottayam.

The Authority noted the action taken by SEAC in its 130th, 131st, 138th & 139th meetings held on different dates. The Committee in its 139th meeting recommended rejection of the proposal based on Precautionary Principle. The Authority observed the project proponent submitted a statement that the District Crisis Management Group had visited the site and suggested some corrective measures including the widening of the road to the project site. The Tahasildar, Kanjirappally also submitted the report after conducting field inspection by the village officer. The procedures of the District Crisis Management Group is yet to be completed as directed by the SEAC in its 131st meeting.

Authority decided to accept the request of the project proponent to defer the project till the receipt of the report from the District Crisis Management Group. On receipt of the report, the SEAC shall relook the matter.

Item No.17 Environmental Clearance for the Granite Building Stone Quarry of Sri. Raju Cyriac, M/s. Focus Mining Company, for an area of 4.6674 Ha, at Re-Sy. Block 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 for the Granite Building Stone Quarry project for an area of 4.6674 Ha at Re-Sy Block. No. 13, Re-Sy Nos. 335/2-1, 335/2-2, 335/2-3 in 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 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 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 by limiting the ultimate depth to 10m bgl, 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 depth of mining should be limited to 10m bgl and the mining quantity shall be limited to that extent considering the topography, local geology and impact of water column in the void space on the environment.*
- 2. 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.*
- 3. 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.*
- 4. 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.*

5. *Buffer zones should be demarcated and green belt should be developed by planting additional 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. *The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
10. *Monitoring of drainage water should be carried out at different seasons by a NABL accredited lab and clear water should only be discharged into the natural stream. Geotagged photographs of the drainage and sampling site should be submitted along with HYCR.*
11. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
12. *The overburden dumping site should be protected with gabion walls to prevent erosion.*
13. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
14. *The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
15. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
16. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
17. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*

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.18

**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 Survey No 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, for the Granite Building Stone Quarry, for an area of 3.9736Ha 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.

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 136th 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 of 1372787 MT by limiting the depth of mining to 155m amsl, 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. SEAC corrected this in their second recommendation and ultimate depth is 145 amsl.*
- 2. The quarrying in the site shall be permitted only after getting the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014.*
- 3. Before issuing the permit/lease, the Mining & Geology Department should ensure that the Certificate from Crisis Management Group has been obtained by the project proponent.*
- 4. 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.*
- 5. 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.*
- 6. 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.*
- 7. 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.*
- 8. Since the region in which the proposed site falls is fragile, in general, and considering the terrain fragility of the proposed site, it is desirable to obtain the approval of the District level Crisis Management Committee for mining constituted vide G.O (Rt) No. 542/14/ID dated 26-05- 2014, as a precautionary measure.*
- 9. Buffer zones should be demarcated and green belt should be developed by planting trees, herbs and climbers of local species.*
- 10. 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.*

11. *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.*
12. *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.*
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 prior to the commencement of mining and it should be 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 lights and office. At least 20% 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. *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*
20. *A protection wall has to be constructed above and between BP11 and BP12.*
21. *Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.*
22. *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.

23. 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.

24. 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.

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

Item No.19

Environmental Clearance for the Building Stone Quarry of Smt. K. Malathy for an area of 3.9800 Ha at Sy. Nos. 253/14, 266/1 & 266/2 in Cherukave village, Kondaty Taluk, Malappuram (SIA/KL/MIN/204626/2021; 1351/EC2/2019/SEIAA)

Smt. Malathy.K, Kottarathil House, Kannanvettikavu, Ambalakandi, Cherukavu, Pulikkal, Malappuram submitted an Environmental Clearance application in SEIAA through PARIVESH for the Granite Building Stone Quarry for an area of 3.9800 Ha at Sy. Nos. 253/14, 266/1 & 266/2 in Cherukavu/ village Kondaty Taluk, Malappuram.

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 139th meeting recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority observed that there was a mention about a written complaint during the public hearing, which is stated as Annexure C in the EIA report. However, the complaint as well as the mitigation measures proposed for the concerns raised during the public hearing including that for the complaint has not been included with EIA Report.

Authority decided to refer the case back to SEAC to verify the mitigation measures adopted by the project proponent. On the basis of that, SEAC may also reexamine the recommendation of 139th meeting.

Item No.20

**Environmental Clearance for the Granite Building Stone Quarry of Sri. Jayaprakash K for an area of 4.4462 Ha at Sy. No. 253/14 & 266/2 of Cherukavu Village, Kondaty Taluk, Malappuram
SIA/KL/MIN/204850/2021 , 1352/EC2/2019/SEIAA**

Sri. Jayaprakash.K, Kottarathil House, Kannanvettikavu, Ambalakandi, Cherukavu, Pulikkal, Malappuram submitted an Environmental Clearance application in SEIAA through PARIVESH for the Granite Building Stone Quarry project for an area of 4.4462 Ha at Sy. No. 253/14 & 266/2 in Cherukavu Village, Kondaty Taluk, Malappuram.

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 139th meeting

recommended EC for a Project Life of 10 years with certain Specific Conditions in addition to the General Conditions.

The Authority observed that there was a mention about a written complaint during the public hearing, which is stated as Annexure C in the EIA report. However, the complaint as well as the mitigation measures proposed for the concerns raised during the public hearing including that for the complaint has not been included with EIA Report.

Authority decided to refer the case back to SEAC to verify the mitigation measures adopted by the project proponent. On the basis of that, SEAC may also reexamine the recommendation (including depth of mining) of 139th meeting.

Item No.21

**Granite Building Stone Quarry of M/s Chand V Granites at Re. Sy. Nos. 305/1, 2, 3, 4, 5, 6, 305/6-2, 305/6-3, 306/2, 309/3 in Vadakarapathy Village, Chittur Taluk, Palakkad, Kerala.
(SIA/KL/MIN/221515/2021, 1922/EC1/2021/SEIAA)**

Sri. Baiju Chandran, Managing Partner, M/s Chand V Granites submitted an application for EC via PARIVESH for the Granite Building Stone Quarry of M/s Chand V Granites at Re. Sy. Nos. 305/1, 2, 3, 4, 5, 6, 305/6-2, 305/6-3, 306/2, 309/3 in Vadakarapathy Village, Chittur Taluk, Palakkad.

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 139th 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. *Since, the Vadakarapathy village is a drought prone area, after the mining activities the quarry pit should be protected with proper fencing and prevent contamination, so as to use water for the domestic needs of the public. Also the project proponent shall be in liaison with panchayat for the proper usage of water collected in the quarry pit. The final quarry closure operations shall be carried out in such a way that quarry pit can be effectively used for storing and use of water safely.*
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. *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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.

- 13. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
- 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. 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.22 **Environmental Clearance for the proposed Granite Building Stone Quarry Project of Sri. Haridasan T. at Re-Sy Block. No. 2, Re-Sy. Nos. 3/1237, 3/744 in Engapuzha Village, Thamarassery Taluk, Kozhikode, Kerala**
(SIA/KL/MIN/222222/2021; 1920/EC4/2021/SEIAA)

Sri. Haridasan, Tharol House, Ekarool P.O, Kozhikode-673574 submitted an Environmental Clearance application through PARIVESH for the proposed Granite Building Stone Quarry Project for an area of 1.3050 Ha, in Re-Sy Block No. 2, Re-Sy Nos. 3/1237, 3/744 in Engapuzha Village, Thamarassery Taluk, Kozhikode.

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 139th meeting, recommended EC with the project life of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority noticed that the Malabar Wild Life Sanctuary is at a distance of 4 km and the proposal has to be considered on the basis of the decision of SEIAA in its 123rd meeting (Item No. 123.30). The project proponent has to submit the necessary documents as envisaged in the 123rd meeting. The SEAC shall verify those documents in consultation with concerned Wild Life Warden having jurisdiction over the area and recommend the project with further specific conditions, if any.

Item No.23 **Environmental Clearance for the Granite Building Stone Quarry of Sri. K. Udayan at Sy. Nos. 163, 163/1 in Enadimangalam Village, Adoor Taluk, Pathanamthitta, Kerala**
(SIA/KL/MIN/255487/2022; 2010/EC1/2022/SEIAA)

Sri. Udayan, Kizhakkekara Veedu, Erathu, Pattazhi (PO), Pathanapuram, Kollam submitted an EC application through PARIVESH for the proposed Granite Building Stone Quarry Project for an area of 0.99.17 Ha at Survey Nos. 163, 163/1 in Enadimangalam Village, Adoor Taluk, Pathanamthitta, 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 138th 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 with indigenous species and the geo-coordinates and geo-tagged photographs of the afforested site should be submitted in HYCR.*
- 4. Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to the nearest natural drain should be provided prior to the commencement of mining.*

5. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
6. *Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of peak particle velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
7. *CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented*
8. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
9. *The haulage road should be widened and developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
10. *Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
11. *Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
12. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
13. *The Environment Management Cell (EMC) should include an Environmental 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.24

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

Sri. Abdul Majeed P., S/o Ummer Haji, Gazal House, Thiruvalli Post, Malappuram submitted an EC application in SEIAA through PARIVESH for the Laterite Building Stone Quarry for an area 0.9716 Ha at Re-Sy No.1/4 in Pulikkal Village, Kondotty 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 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 4 years. 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 EC is issued subject to the interim and final judgement in the court cases regarding land dispute. The Mining and Geology Department shall issue permit subject to the final verdict of the court cases.*
- 2. 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.*
- 3. 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.*
- 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. At least 20% of the energy requirement of the project should be met from the solar power.*
- 14. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*

15. *A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.*
16. *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.*
17. *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.*
18. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
19. *Measures incorporated in the CER should be implemented as per norms during the first two years and it should be operated and maintained till the mine closure is completed.*
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 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. *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.25

**Ordinary Earth Removal project of Smt. Serin Scaria for an area of 0.4947 Ha at Survey Nos. 473/1,473/1-1 in Velloor Village, Vaikom Taluk, Kottayam - Physical to Online
(SIA/KL/MIN/271891/2022; 2687/A2/2019/SEIAA)**

Smt. Serin Scaria has submitted an EC application in SEIAA for the removal of ordinary earth from the property for an area of 1.04.41ha at Survey No. 473/1 in Velloor Village, Vaikkam Taluk, Kottayam.

The Authority noticed that the Committee in its 139th meeting, discussed the field inspection report and observed that removal of soil from the southern portion of the site falling around BP1 & BP6 is necessary from a safety point of view, especially for those using the adjacent road. It is also not desirable to remove the soil by keeping a buffer all around the proposed site from the safety point of view. Therefore, the Committee decided to inform the Authority that it is desirable to advise the project proponent to submit a plan for the removal of soil to a depth of around 8m at the southern side and 2m in the northern side to maintain a gradient from North to South. The plan should be such that it should not affect the building at the boundary of the proposed site between BP2 and BP3.

The Authority accepted the recommendation of SEAC and decided to direct the project proponent to submit a plan for the removal of soil to a depth of around 8m at the southern side & 2m in the northern side to maintain a gradient from North to South. The plan should be such that it should not affect the building at the boundary of the proposed site between BP2 and BP3. On receipt of the documents, the SEAC shall verify the documents and give the recommendation.

Item No.26

**Environment Clearance for the Granite Building Stone Quarry of Sri. Biju Khan for an area of 0.9037 Ha at Re-Sy Nos. 214/1-1-1, 214/1-1-2, 214/2pt (Own Patta land) & Re-Sy No. 214/1pt (Govt. Land) Pooyapally Village, Kottarakara Taluk, Kollam, Kerala
(SIA/KL/MIN/43903/2019; 1548/EC2/2019/SEIAA)**

Sri. Biju Khan, Biju Manzil, Mylakadu (PO), Kollam 691 571 sought Environmental Clearance for the proposed Granite Building Stone Quarry at Re-Sy Nos. 214/1-1-1, 214/1-1-2, 214/2pt (Own Patta land) & Re-Sy No.-214/1pt (Govt. Land) in Pooyapally Village, Kottarakara Taluk, Kollam, Kerala.

The Authority decided to adhere to its earlier decision taken in its 122nd meeting to issue Environmental Clearance for the project life of 2 (two) years.

Item No.27 **Environment Clearance for the Granite Building Stone Quarry of Sri. Biju Khan for an area of 0.5456 Ha at Re-Sy Nos. 217/17 pt (Own Patta land) & Re-Sy No. 214/1pt (Govt. Land) Pooyapally Village, Kottarakara Taluk, Kollam, Kerala
(SIA/KL/MIN/43937/2019; 1547/EC2/2019/SEIAA)**

Sri. Biju Khan, Biju Manzil, Mylakadu (PO), Kollam 691 571 sought Environmental Clearance for the proposed Granite Building Stone Quarry at Re-Sy Nos. 217/17 pt (Own Patta land) & Re-Sy No. 214/1pt (Govt. Land) in Pooyapally Village, Kottarakara Taluk, Kollam, Kerala.

The Authority decided to adhere to its earlier decision taken in its 122nd meeting to issue Environmental Clearance for the project life of 2 (two) years.

Item No.28 **Environment Clearance (EC) for the Granite Building Stone Quarry of N. Ramachandran in Anavoor Village, Neyyattinkara Taluk, Thiruvananthapuram, Kerala
(SIA/KL/MIN/69596/2021; 1872/EC1/2021/SEIAA)**

Sri. N. Ramachandran submitted EC application via PARIVESH for the Granite Building Stone Quarry for an area of 1.5589 ha at Re-Sy Nos: 269/1-1, 269/1-2, 269/1-3, 269/1-4, 269/8,269/2-1 in Anavoor 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 138th 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. 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.*

4. *Drainage system incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining.*
5. *Garland drain should be enlarged to contain the entire overland flow of the adjacent sloppy region of the quarry.*
6. *Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically and geo-tagged photographs of the process should be included in the HYCR.*
7. *Monitoring of drainage water should be carried out at different seasons by an NABL-accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.*
8. *The overburden dumping site should be protected with gabion walls to prevent erosion.*
9. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
10. *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. *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 lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
14. *Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
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 local plants, climbers and herbs as mentioned in the biodiversity assessment report.*

17. *The proposed road to the quarry is narrow. So, fish belly should be provided at every 100m.*
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.29

Environmental Clearance for the proposed Expansion of Residential project developed by M/s The Federal House Construction Co-Operative Society Ltd. No. E-962

Sri. M.V. Raju, M/s The Federal House Construction Co-Operative Society Ltd. applied for Environmental Clearance for the proposed Expansion of Residential project at Sy. No. 92/8-5, 92/8-3, 92/8-2, 92/8-1, 92/8-1, 92/8-3, 92/8-6, 92/8-3, Village & Panchayat Karumalloor, Paravoor Taluk, Ernakulam, Kerala.

The Authority noted that SEAC in its 139th meeting, recommended EC for expansion of existing residential compound by adding a club house of area 1,449.75 sqm in the additional land of 0.0483 ha procured subject to certain Specific Conditions in addition to the General Conditions.

The Authority agreed to the recommendation of SEAC and decided to issue Environmental Clearance for the total built-up area of 23465.95 sq.m (including an the expansion of existing residential compound by adding a club house of area 1,449.75 sq.m in the additional land of 0.0483ha procured) subject to the following Specific Conditions in addition to the Specific and General Conditions stipulated in the original EC.

- 1. Treated water from STP is to be reused to the maximum extent and balance if any should be discharged through a series of soak pits for recharging the local ground water, and for avoiding discharge of treated water in to the nearby public drain.*
- 2. Local topography of land profile should be maintained as such by avoiding deep cutting /filling.*
- 3. 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.*

4. *The Project Proponent shall obtain all necessary clearances/licenses/permissions from all the statutory authorities for the construction projects*
5. *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).*
6. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.30

Environmental Clearance for the Granite Quarry of Sri. Mathew Daniel at 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 in Enadimangalam Village, Adoor Taluk, Pathanamthitta, Kerala. (SIA/KL/MIN/127122/2019; 1562/EC1/2019/SEIAA)

Sri. Mathew Daniel submitted application for EC via PARIVESH for the Granite Buidling Quarry project for an area of 2.2392ha at 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 in Enadimangalam Village, Adoor 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 12 years. After the due appraisal, the SEAC in its 134th 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. OB dump at North West side shall be protected with Gabion wall. Photographs of the gabion wall also should be submitted along with half-yearly compliance report (HYCR).*
- 5. Development of green belt should be initiated prior to the commencement of mining operation.*
- 6. Apart from the rubber plants, more indigenous plants shall be planted in the buffer zone. As per the report submitted 0.5378 Ha green belt should be provided.*
- 7. Compensatory afforestation should be initiated prior to the commencement of mining and the coordinates and geo-tagged photographs of the site should be incorporated 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. Geo-*

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

- 9. The impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and the details should be included in the HYCR.*
- 10. 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. Additional two settling tanks should be constructed.*
- 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. CER Plan should be implemented within the first 2 Years and it should be operated and maintained till the mine closure plan is implemented. Proof of CER implementation should be included in the HYCR*
- 13. Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*
- 14. The haulage road should be developed prior to the commencement of mining and it should be maintained well and dust-free with sprinkling arrangement.*
- 15. Adequate sanitation, waste management and rest room facilities should be provided to the workers.*
- 16. Adequate energy conservation measures proposed should be implemented including solar power installations for street lights and office. At least 20% of the energy requirement of the project should be met from the solar power.*
- 17. Adequate facilities should be adopted to harvest the rainwater as per the guidelines issued by the Central Groundwater Authority*
- 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.*

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

Item No.1

**Extension of Environmental Clearance for the Laterite Building Stone Quarry project of Sri. Pradeep K in Re Survey Nos: 587/46,587/47,587/48,587/49,588/3, of Kunathoor Village, Kunathoor Taluk, Kollam, Kerala
(SIA/KL/MIN/265356/2022, 3476/EC4/2019/SEIAA)**

Sri. Pradeep K, submitted an application for extension of Environmental Clearance via PARIVESH Portal for the Laterite Building Stone Quarry project, for an area of 0.9133 Ha at Re-Sy Nos. 587/46,587/47,587/48,587/49,588/3 in Kunathoor Village, Kunathoor Taluk, Kollam, Kerala.

The Authority noted that the Committee in its 138th meeting, recommended to extend the EC for one year subject to certain specific conditions in addition to the general conditions.

The Authority decided to extend the EC for one year from the date of execution of valid permit from the Mining and Geology Department subject to the following specific conditions in addition to the general conditions:

- 1. The excavation activity associated should not involve blasting.*
- 2. The excavation activity should be restricted to 2m above the ground water table at the site.*
- 3. The excavation activity should not alter the natural drainage pattern of the area.*
- 4. The excavated pit should be restored by the project proponent for useful purpose.*
- 5. Appropriate fencing all around the excavated pit should be made to prevent any mishap*
- 6. Measures should be taken to prevent dust emission by covering of excavated earth during transportation.*
- 7. Safeguards should be adopted against health risks on account of breeding of vectors in the water bodies created due to excavation of earth.*
- 8. Workers/labourers should be provided with facilities for drinking water and sanitation.*

9. *A berm should be left from the boundary of adjoining field having a width equal to at least half the depth of proposed excavation.*
10. *A minimum distance of 50m from any civil structure should be kept from the periphery of the project area.*
11. *No water logging should be allowed in the mine pit. Appropriate drainage should be ensured from the project area prior to the commencement of mining.*
12. *The drain should be provided with silt traps and siltation pond and the overflow water should be clarified and drained to the nearest natural drain without any hindrance.*
13. *The drainage system should be cleaned and desilted periodically to facilitate unhindered drainage.*
14. *Measures incorporated in the CER should be implemented as per norms*
15. *Transportation of mined material should not be done during the peak hours in the forenoon (8.00am to 10.00am) and afternoon (3.30pm to 5 pm).*

Item No.2

Environmental Clearance for the Ordinary Earth Removal project of Sri. Abbas P. S., for an area of 36.74 Ares at Re-Sy Nos. 431/6- 2,431/7 in Arakkappady Village, Kunnathunad Taluk, Ernakulam (SIA/KL/MIN/259995/2022; DIA/KL/MIN/7053/2017)

Sri. Abbas P. S, applied for the extension of Environmental Clearance for the Ordinary Earth Removal project on 25th March 2022, at Re- Survey Nos: 431/6-2,431/7, Block No.22 in Arakkappady Village, Kunnathunad Taluk, Ernakulam, Kerala.

The Authority noticed that the EC was issued vide proceedings No. DIA/KL/MIN/7053/2017 dated 10.12.2018. The Committee in its 139th meeting mentioned that the EC has expired and the project proponent has submitted the extension application after validity period and hence as per the existing norms (clause 9 (iii) of EIA notification 2006) the delay cannot be condoned. Hence the project proponent has to submit application in Form 1 for a fresh EC.

The Authority agreed to the recommendation of SEAC and directed the project proponent to submit the application afresh through PARIVESH portal.

CONSIDERATION OF TOR PROPOSALS

Item No.1

**Application for Terms of Reference for the Granite Building Stone Quarry project of Sri. K P Babu for an area of 2.6015 Ha at Re-Sy Nos. 302, 305/1 in Vengapally Village, Vythiri Taluk, Wayanad, Kerala.
(SIA/KL/MIN/83134/2022; 2134/EC2/2022/SEIAA)**

Sri. K.P Babu Kodikulath House Kumblery P.O Wayanad, sought Terms of reference for the proposed Granite Building Stone Quarry at Re-Sy Nos. 302, 305/1 in Vengapally Village, Vythiri Taluk, Wayanad, Kerala.

The Authority noted that SEAC in its 138th 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. 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. There are more than 5 quarry pits in the vicinity and study should include a comprehensive water management plan considering the possibility of spillage or breach of water during monsoon and water requirements in the area during summer.*
- 3. Specific plan for conservation of biodiversity in the area.*
- 4. Detailed socio economic impacts of livelihood, considering the Vengapally tribal settlement.*
- 5. Study on the impact on the water availability in the peripheral area of the proposed site due to decrease in water recharge area.*

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

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

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