

PARIVESH FILES

CONSIDERATION/RECONSIDERATION OF ENVIRONMENTAL CLEARANCE

Item No.1 **Environmental Clearance for the Granite Building Stone Quarry Project in Block No.1, Re-Sy. Nos. 93/58, 93/59 of Pullippadam Village, Nilambur Taluk, Malappuram District for an area of 2.8766 Ha by Sri. Kunhalan M., M/s. Chaliyar Stone Crusher (SIA/KL/MIN/133398/2019, 1670/EC6/2020/SEIAA)**

Sri. Kunhalan M., M/s. Chaliyar Stone Crusher, Pullipadam P.O, Mambad, Malappuram – 676 542 submitted an application for Environmental Clearance in SEIAA through PARIVESH on 29.05.2020 for the Granite Building Stone Quarry for an area of 2.8766 Ha in Block No.1, Re-Sy. Nos. 93/58, 93/59 of Pullippadam Village, Nilambur Taluk, Malappuram District.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for the Project Life of 10 years subject to review after every 5 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover Project life of 10 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

1. *The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/ permit 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 PP should submit an affidavit to the effect that all the built structures will be demolished before mining.*
4. *Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
5. *The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
6. *The drainage along with silt traps, siltation ponds and outflow channel should be desilted periodically and geotagged photographs should be incorporated in the Half Yearly Compliance Report.*
7. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
8. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*

9. *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.*
10. *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.*
11. *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 for an extent of 1.6939 Hectares in Re-Sy Nos. 223/2pt and 227/1pt of Alakode Village, Thodupuzha Taluk, Idukki District, Kerala by Mr. Binoy Jose
(SIA/KL/MIN/133526/2019, 1734/EC3/2020/ SEIAA)**

Sri. Binoy Jose submitted an application for Environment Clearance in SEIAA through PARIVESH for the Granite Building Stone Quarry for an extent of 1.6939 Ha in Re-Sy Nos. 223/2pt and 227/1pt of Alakode Village, Thodupuzha Taluk, Idukki District, Kerala.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for the Project life of 12 years subject to review every 5 years, with certain Specific Conditions in addition to the General Conditions.

The Authority noted that for the sustainable management of quarry operations in the state, 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover Project life of 12 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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 sworn affidavit should be submitted with an undertaking that the approach road leading to the quarry will be widened before the commencement of quarrying*
- 4. Depth of mining should be limited to 10 m below the lowest ground level of the project area.*
- 5. A drainage channel from the quarry pit to the nearest natural drain should be constructed to maintain maximum depth of water column in the quarry pit at 5m.*
- 6. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 7. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 8. Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years*
- 9. Compensatory afforestation should be done with trees of indigenous species and the geo-coordinates of the afforested place with photographs should be provided along with HYCR.*

10. *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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
11. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
12. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
13. *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.*
14. *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.*
15. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**Item No. 3 Granite Building Stone Quarry of M/s. Adani Vizhinjam Port Private Limited for an extent of 1.9274 Ha. (4.7626 Acres) in Block. No: 47, ReSurvey. Nos. 133/4, 133/16, & 139/6 (Government land), Aryanadu Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala
(SIA/KL/MIN/136067/2020, 1587(A)/EC1/2020/ SEIAA)**

Sri. Rajesh Kumar Jha, CEO, M/s Adani Vizhinjam Port Private Limited, Vipanchika Tower, Thycaud, Thiruvananthapuram submitted an application for EC via PARIVESH on 13.01.2020 for the Granite Building Stone Quarry of M/s. Adani Vizhinjam Port Private Limited for an extent of 1.9274 Ha. (4.7626 Acres) in Block No. 47, Re-Sy Nos. 133/4, 133/16 & 139/6 (Government Land), Aryanadu Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a period of 6 years subject to 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover Project life of 6 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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. Since the quarry site is located within a distance of 10km from Peppara Wild Life Sanctuary, as per OM dated 8.8.2019 of MoEF&CC, Clearance from Standing Committee of the National Board for Wildlife is mandatory for mining activity. Hence the Project Proponent is directed to obtain Clearance from Standing Committee of the National Board for Wildlife before starting any activity at the site.*
- 4. Authority makes it amply clear that EC issued does not necessarily imply that Wildlife clearance shall be granted to the Project Proponent and that the proposal for Wildlife clearance will be considered by the respective Authorities on its merit and decision taken accordingly. The investment made in the project if any based on this EC in anticipation of clearance from Wildlife angle shall be entirely at the cost and risk of the Project Proponent and MoEF&CC and SEIAA shall not be responsible in this regard in any manner.*
- 5. Boundary Pillars should be fixed permanently with immediate effect.*
- 6. Garland drain should be provided covering the entire project area, siltation pond of appropriate volume should be provided at the lowest portion of the project area and outflow channel should be laid to the natural stream nearby. Silt-traps should be provided intermittently in garland drain and outflow channel. Garland drain, silt-traps, siltation ponds and outflow channel should be desilted periodically to prevent any obstruction to the drainage system.*
- 7. Blasting (NONEL) should be done only with a drill hole of 32mm diameter and depth 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m since there are 9 houses within the distance varying from 50-100m and 39 houses within 200m. An affidavit to this should be submitted by the Proponent.*
- 8. A vibration impact study on various built structures within 200m from the project boundary shall be carried out by engaging a National Institute of repute such as National Institute of Rock Mechanics and their recommendations must be*

implemented. A copy of the same shall be made available to Dept of Mining and Geology for future reference.

9. *Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly 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. *Planting of trees for the development of green belt should be done before the commencement of mining and green belt should be nurtured and maintained during the entire project period till the mine closure plan is implemented*
13. *Prior to the commencement of mining, temporary barrier should be provided wherever green belt cannot be developed due to the presence of barren rock*
14. *Prior to the commencement of mining, temporary wall should be provided at the boundary adjacent to the houses and road*
15. *Compensatory afforestation should be initiated prior to the commencement of mining in available land as tree planting is not feasible along some portion of the buffer zone*
16. *An affidavit should be submitted indicating the land with geocoordinates where compensatory afforestation is proposed*
17. *Mining activities including loading of mined materials should not be carried out between sun set and sunrise*
18. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
19. *Haulage road should be maintained well with frequent sprinkling*
20. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be*

implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.

- 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. A copy of the EC shall be marked to IGF (WL), MoEF&CC, PCCF and Chief wild life Warden, Kerala, SEAC, District collector, Thiruvananthapuram and Director Mining and Geology, Department of Industries GOK, besides others for information and necessary further action.*
- 24. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.4

**Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Babu Jacob, Director, M/s. Mannari Granites Pvt Limited, in Sy Nos: 1008/1-18/3, 1008/1-18/4, 1008/1- 18/5, 1008/1-18/7 Mulavoor Village, Muvattupuzha Taluk, Ernakulam District, Kerala
(SIA/KL/MIN/136195/2020, 1587(A)/EC1/2020/SEIAA)**

Sri. Babu Jacob, Director, M/s. Mannari Granites Private Limited, submitted an application for Environmental Clearance via PARIVESH on 10.01.2020 for the Granite Building Stone Quarry, for an area of 0.9700 Ha in Sy. Nos. 1008/1-18/3, 1008/1-18/4, 1008/1-18/5, 1008/1-18/7 Mulavoor Village, Muvattupuzha Taluk, Ernakulam District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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 garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 4. The garland canal, silt traps, siltation pond and outflow channel should be de-silted periodically to facilitate unhindered overland drainage and geo-tagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 5. Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
- 6. Compensatory afforestation should be done with indigenous fruit trees and the geo-coordinates of the afforested place with photographs should be provided along with 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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
8. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
9. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
10. *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.*
11. *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.*
12. *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 Granite Building Stone Quarry of Sri. Zaiul Abideen for an area of 0.6800 Ha in Sy. No 573/1 of Parappa Village, Vellarikund Taluk, Kasaragod District of Kerala (SIA/KL/MIN/138173/2020, 1692/EC2/2020/SEIAA)

Sri. Zainul Abideen S/o Koyamma Thangal Puthiyapurayil House Parappa (PO), Kasaragod submitted an application for EC via PARIVESH on 04.06.2020 for the Granite Building Stone Quarry, for an area of 0.6800 Ha in Sy. No 573/1 of Parappa Village, Vellarikund Taluk, Kasaragod District of 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 I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended to issue EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lowest bench should be 5m above the present lowest ground level.*
- 4. If the abandoned quarry adjacent to the proposed project area is owned by the Proponent, the Project Proponent shall take immediate measures to close the abandoned quarry in the project site as per the final closure plan in the approved mining plan within 6 months and a report from district Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of Department of Mining and Geology. The compliance of this condition should also be*

reported in the HYCR. On receipt of the report, the SEAC shall verify the mine closure status.

- 5. Retaining wall should be provided for the overburden storage area to a height of about 2m.*
- 6. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 7. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 8. Green belt development in the buffer should be done in the first year of the project itself using only good canopy native tree species and it should be nurtured and maintained in subsequent years.*
- 9. Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.*
- 10. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
- 11. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 12. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*

13. *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.*
14. *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.*
15. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.6 Environment Clearance for the Granite Building Stone Quarry of Sri. Sathyan C. for an extent of 2.8552 Ha. (7.0551 Acres) in Block No. 26, Re-Sy Nos. 156/1, 156/2, 156/3 & 156/3-1 Enadimangalam Village, Adoor Taluk, Pathanamthitta District (SIA/KL/MIN/138465/2020, 1608/EC1/ 2020/SEIAA)

Sri. Sathyan C., S/o. Chellappan, Sreerangam House, Malamel Bhagam, Kareelakulangara PO, Alappuzha - 690572, submitted an EC application via PARIVESH on 24.01.2020 for the Granite Building Stone Quarry, for an extent of 2.8552 Ha. (7.0551 Acres) in Block No. 26, Re-Sy Nos. 156/1, 156/2, 156/3 & 156/3-1, Enadimangalam Village, Adoor Taluk, Pathanamthitta District.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a project life of 8 years subject to review after 5 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover project life of 8 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. All the boundary pillars should be replaced with concrete pillars with geo-coordinates written on it and submit geo-tagged photographs as proof prior to the commencement of mining.*
- 4. OB location should be shifted to lower level, between BP1 and BP2, outside the boundary of the project and the location should be marked on a map and submitted before the commencement of mining.*
- 5. The entire boundary of the project area should be protected with proper fencing.*
- 6. The width of the road should be widened to 8m before the commencement of quarrying.*
- 7. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*

8. *Compensatory afforestation should be done with indigenous species of trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.*
9. *Quarrying operations should be limited 85m above MSL*
10. *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 a maximum charge per delay and included in the Half Yearly Compliance Report*
11. *The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
12. *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
13. *Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
14. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
15. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
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.7 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. A. N. Sadasivan Nair, Managing Partner, M/s. Popular Granites for an area of 0.9966 Ha in Sy Nos. 871, 875 in Perumpilavu Village, Thalappilly Taluk, Thrissur District (SIA/KL/MIN/140230/2020, 1390/EC2/ 2019/ SEIAA)

Sri. A. N. Sadasivan Nair, Managing Partner, M/s. Popular Granites, Ernakulam submitted an application in SEIAA through PARIVESH on 10.12.2019 for ToR vide proposal no. SIA/KL/MIN/36683/2019 and resubmitted the application for EC on 16.04.2020 vide proposal no. SIA/KL/MIN/140230/2020 for the Granite Building Stone Quarry for an area of 0.9966 Ha in Sy Nos. 871, 875 in Perumpilavu Village, Thalappilly Taluk, Thrissur District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for 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 a project life of 5 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

1. *The proponent shall carry out quarrying as per the approved Mining Plan and the 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 entire project area should be protected with fencing and fencing between the boundary pillar BP 4 and BP5-should be stronger as the boundary here share the boundary of a deep quarry pit.*
4. *Impact of vibration due to blasting on the nearest houses and built structures should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.*
5. *The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
6. *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
7. *Green belt development in the buffer should be done in the first year of the project itself using only good canopy native tree species and it should be nurtured and maintained in subsequent years.*
8. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
9. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
10. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for*

CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.

- 11. 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.*
- 12. 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.*
- 13. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**Item No. 8 Environmental Clearance for Laterite Building Stone Quarry of Prince M.P. for an extent of 0.1940 in Re - Sy No. 83/2 in Edakattuvayal Village, Kanayannur Taluk, Ernakulam District, Kerala.
(SIA/KL/MIN/141091/2020, 1863/EC3/2020/SEIAA)**

Sri. Prince M.P. submitted an application on 05.10.2020 for Environmental Clearance for Laterite Building Stone Quarry for an extent of 0.1940 in Re - Sy No. 83/2 in Edakattuvayal Village, Kanayannur Taluk, Ernakulam District, Kerala.

The Authority noted the action taken by SEAC in its 123rd, 124th, 126th & 127th meetings held on different dates. The Committee in its 127th meeting examined the documents and decided to reject the application since there is built structure within 50m from proposed project area.

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

**Item No.9 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mithun, Managing Partner, M/s. Vezhakkode Granites Ltd. for an area of 0.8949 Ha in Block No.27, Sy Nos. 161/2, 161/3, 161/4, 145/1, in Urangattiri Village, Ernad Taluk, Malappuram District
(SIA/KL/MIN/142599/2020, 1773/EC6/2020/SEIAA)**

Sri. Mithun, Managing Director, M/s. Vezhakkode Granites Ltd., Kannamparamb, Cheruvadi P.O, Kozhikkode submitted an application for Environmental Clearance in SEIAA through PARIVESH on 28.07.2020 for the Granite Building Stone Quarry project for an area of 0.8949 Ha in Block No.27, Sy Nos. 161/2, 161/3, 161/4, 145/1 in Urangattiri Village, Ernad Taluk, Malappuram District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a period of 5 years, subject to certain Specific Conditions in addition to the General Conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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 seasonal water flow along the south east part of the site (outside) should not be disturbed.*
4. *Before blasting the columnar rocks should be removed using rock breaker.*
5. *The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
6. *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
7. *Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years*
8. *Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.*
9. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
10. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
11. *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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
12. *The overburden dumping site should be located at the lowest portion of the project area and it should be protected with appropriate retaining wall.*
13. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities*

proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.

- 14. 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.*
- 15. 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.*
- 16. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.10 Application for Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Dilip Kumar K, Managing Partner, M/s Capital Granites in Sy Nos. 2/3 & 3/2 at Shoranur II Village, Ottappalam Taluk, Palakkad District, Kerala (SIA/KL/MIN/145130/2020, 1664/EC1/2020/SEIAA)

Sri. Dilip Kumar K, Managing Partner, M/s Capital Granites, Guru Devan Estate Paruthipra, Shoranur Post, Ottapalam Taluk, Palakkad District submitted application for EC via PARIVESH on 25/02/2020 for the Granite Building Stone Quarry Project in Sy Nos. 2/3 & 3/2 at Shoranur II Village, Ottappalam Taluk, Palakkad District, Kerala.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in

its 128th meeting recommended EC for a project life of 12 years subject to review every 5 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover project life of 12 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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. If the abandoned quarry adjacent to the proposed project area is owned by the Proponent, the Project Proponent shall take immediate measures to close the abandoned quarry in the project site as per the final closure plan in the approved mining plan within 6 months and a report from district Geologist shall be produced to the effect that the final closure of quarry has been done as per the approved norms of Department of Mining and Geology. The compliance of this condition should also be reported in the HYCR. On receipt of the report, the SEAC shall verify the mine closure status.*
- 4. Retaining wall should be constructed on downward side to prevent rolling of boulders outside the dumping area and also to prevent inadvertent entry by persons or animals.*
- 5. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*

6. *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
7. *Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
8. *Compensatory afforestation to compensate for the difficulties to develop green belt in the south-eastern side of the project area with indigenous species of trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR*
9. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
10. *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 a maximum charge per delay and included in the Half Yearly Compliance Report*
11. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
12. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
13. *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.

14. 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.

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

Item No.11 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Binu Cherian, Managing Partner, M/s Granites India for an area of 2.3011 Ha in Block No. 1, Sy Nos. 98/2pt, 98/24 pt & Block No. 2, Sy No. 428/66 pt of Edayur Village, Tirur Taluk, Malappuram District (SIA/KL/MIN/147339/2020, 1669/EC6/2020/SEIAA)

Sri. Binu Cherian, M/s Granites India, Madaparambil Arcade, Oushadhi Junction, Perumbavoor, Ernakulam submitted an application in SEIAA through PARIVESH on 22.05.2020 for Environmental Clearance for the Granite Building Stone Quarry for an area of 2.3011 Ha in Block No. 1, Sy Nos. 98/2pt, 98/24 pt & Block No. 2, Sy No. 428/66 pt of Edayur Village of Tirur Taluk, Malappuram District.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for the project life of 8 years subject to review after 5 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover project life of 8 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 lease/permit 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 protective wall must be constructed around the overburden dumping site.*
- 4. Green belt development in the buffer should be done in the first year of the project itself using native trees and it should be nurtured and maintained in subsequent years*
- 5. Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.*
- 6. Garland canal, silt traps, siltation ponds and outflow channel should be provided covering the entire project area.*
- 7. The garland canal along with silt traps, collection tanks and outflow channel should be desilted periodically and geotagged photograph should be incorporated in the Half Yearly Compliance Report*
- 8. Geotagged photographs of the Solar light installation sites, locations of well recharge and water storage as proposed as part of CER should be included in the half-yearly compliance report.*
- 9. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*

10. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.
11. 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.
12. 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.
13. 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 Granite Building Stone Quarry project of Sri. E. J. Mani, Managing Partner, M/s. Peacock Rock Products for an area of 1.937 Ha in Re-Sy. Nos. 26/9, 26/13, 26/10 & 26/11 in Wadakkanchery Village, Thalappilly Taluk, Thrissur District
(SIA/KL/MIN/151675/ 2020, 1709/EC6/2020/SEIAA)**

Sri. E. J. Mani, Managing Partner, M/s. Peacock Rock Products, Vyasagiri P.O. Parlikkad, Thrissur, 680623 submitted an application for Environmental Clearance in SEIAA through PARIVESH on 02.07.2020 for the Granite Building Stone Quarry project for an area of 1.937 Ha in Re.Sy. Nos. 26/9, 26/13, 26/10 & 26/11 in Wadakkanchery Village, Thalappilly Taluk, Thrissur District.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for the project life of 10 years subject to the review every 5 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 decided to issue EC initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover Project life of 10 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Since the quarry site is located within a distance of 10 km from Peechi –Vazhani Wildlife Sanctuary, as per OM dated 8.8.2019 of MoEF&CC, Clearance from Standing Committee of the National Board for Wildlife is mandatory for mining activity. Hence the Project Proponent is directed to obtain Clearance from Standing*

Committee of the National Board for Wildlife before starting any activity at the site.

- 4. Authority makes it amply clear that EC issued does not necessarily imply that Wildlife clearance shall be granted to the Project Proponent and that the proposal for Wildlife clearance will be considered by the respective Authorities on its merit and decision taken accordingly. The investment made in the project if any based on this EC in anticipation of clearance from Wildlife angle shall be entirely at the cost and risk of the Project Proponent and MoEF&CC and SEIAA shall not be responsible in this regard in any manner.*
- 5. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 6. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 7. Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years.*
- 8. Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.*
- 9. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
- 10. 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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
- 11. The overburden dumping site should be located at the lowest portion of the project area and it should be protected with appropriate retaining wall.*
- 12. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 13. A copy of the EC shall be marked to IGF (WL), MoEF&CC, PCCF and Chief wild life Warden, Kerala, SEAC, District collector, Thrissur and Director Mining and*

Geology, Department of Industries GOK, besides others for information and necessary further action.

- 14. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
- 15. In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.*
- 16. As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.*
- 17. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.13

Environmental Clearance for the Laterite Building Stone Quarry Project of Sri. Mohammed Faisal P. for an area of 0.969675 Ha in Re-Survey Nos. 57/12, 57/13 & 57/1 of Valambur Village, Perinthalmanna Taluk, Malappuram District (SIA/KL/MIN/152637/2020, 1706/EC6/2020/SEIAA)

Sri. Mohammed Faisal P., Panayathil House, Velliyampuram, Theyyala P.O, Malappuram – 676 320, submitted an application for Environmental Clearance in SEIAA through PARIVESH on 13.06..2020 for the Laterite Building Stone Quarry Project for an area of 0.969675 Ha in Re-Sy Nos. 57/12, 57/13 & 57/1 of Valambur Village, Perintalmanna Taluk, Malappuram District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting decided to recommend EC for a period of 3 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for a project life of 3 year for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. An affidavit stating that the traffic management plan submitted by the proponent will be implemented.*
- 4. Mining should be carried out by providing benches at every 2m.*
- 5. Proper drainage from the mine site should be ensured.*
- 6. Sprinkling of water should be done on the unsurfaced road prior to each movement of truck.*
- 7. The proponent should undertake phased restoration and shall complete it before the completion of the mining operations. Cultivation of short-duration food crop cycles may be promoted on the restored area.*

8. *The filled-up pits with the waste/OB materials should be covered with freshly removed soil mixed with sufficient organic matter to ensure fast raising of vegetation with no alien invasive species.*
9. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
10. *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.*
11. *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 proposed Laterite Building Stone Quarry Project of Sri. Saneesh K., for an area of 0.9711 Ha in Sy Nos. 46/726, 727, 728, 729, 730, 731, 732, 733 of Kalliad Village, Irritty Taluk, Kannur District, Kerala
(SIA/KL/MIN/ 156925/ 2020; 1743/EC4/2020/SEIAA)**

Sri. Saneesh K., S/o Kannan, Manasam, Vaduvankulam P.O, Kannur-670602 submitted an application for Environmental Clearance in SEIAA for the proposed Laterite

Building Stone Quarry Project for an area of 0.9711 Ha in Sy Nos. 46/726, 727, 728, 729, 730, 731, 732, 733 Kalliad Village, Irritty Taluk, Kannur District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a period of 3 years, subject to certain Specific Conditions in addition to the General Conditions.

The Authority decided to issue Environmental Clearance for a project life of 3 year for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
- 2. The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the permit/lease order should be provided to the SEIAA before commencing the mining activity.*
- 3. Mining should be carried out by providing benches at every 2m.*
- 4. Proper drainage from the mine site should be ensured*
- 5. Sprinkling of water should be done on the unsurfaced road prior to each movement of truck.*
- 6. The proponent should undertake phased restoration and shall complete it before the completion of the mining operations. Cultivation of short-duration food crop cycles may be promoted on the restored area*
- 7. The filled-up pits with the waste/OB materials should be covered with freshly removed soil mixed with sufficient organic matter to ensure fast raising of vegetation with no alien invasive species.*
- 8. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal,*

covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.

- 9. 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.*
- 10. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**Item No.15 Application for EC for the Granite Building Stone Quarry Project of M/s. Delta Aggregates & Sands Pvt. Ltd. for an extent of 3.7691 Ha in Sy Nos. 889/1-15-1 & 889/1-15, Perunad Village, Ranni Taluk, Pathanamthitta District, Kerala.
(SIA/KL/MIN/163854/2020; 1773/EC1/2020/SEIAA)**

Sri. Thomas Philip, Managing Director, M/s Delta Aggregates & Sand Pvt. Ltd., Chittar, Pathanamthitta – 689663 submitted an application via PARIVESH on 24.07.2020 for the Granite Building Stone quarry of M/s. Delta Aggregates & Sands Pvt. Ltd. at Survey. Nos.889/1-15-1 & 889/1-15, Perunad Village, Ranni Taluk, Pathanamthitta District, Kerala for an extent of 3.7691 Ha.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 127th meeting recommended EC for the project life of 7 years subject to 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover project life of 7 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

1. *The proponent shall carry out quarrying as per the approved Mining Plan and the proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.*
2. SEAC shall verify the apprehensions expressed by the Revenue Divisional Officer, Thiruvalla in the letter dated 27.04.2022(copy of the letter shall be forwarded to SEAC) and suggest additional mitigation measures if any required to be incorporated as part of the EC within one month. The Project Proponent shall execute an affidavit to carry out the mitigation measures as suggested by SEAC.
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. *Since the quarry site is located within a distance of 10km from Periyar Tiger Reserve, as per OM dated 8.8.2019 of MoEF&CC, Clearance from Standing Committee of the National Board for Wildlife is mandatory for mining activity. Hence the Project Proponent is directed to obtain Clearance from Standing Committee of the National Board for Wildlife before starting any activity at the site.*
5. *Authority makes it amply clear that EC issued does not necessarily imply that Wildlife clearance shall be granted to the Project Proponent and that the proposal for Wildlife clearance will be considered by the respective*

Authorities on its merit and decision taken accordingly. The investment made in the project if any based on this EC in anticipation of clearance from Wildlife angle shall be entirely at the cost and risk of the Project Proponent and MoEF&CC and SEIAA shall not be responsible in this regard in any manner.

- 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. The entire road stretch should be developed with width not less than 8m prior to the commencement of mining.*
- 8. The proponent should strictly comply with the traffic plan submitted.*
- 9. The overburden location should be shifted to the lower level, outside the project boundary and it should be protected with gabion structure.*
- 10. Garland drain should be provided all around the project area with intermittent silt traps, siltation ponds and outflow channel connecting natural drain. Additional clarifies should be provided to ensure that no polluted water reached the Kakkattar located about 500m from the project site.*
- 11. The garland drain along with silt traps, siltation ponds and outflow channel should be desilted periodically to avoid obstruction of overland flow and geotagged photo of the same should be uploaded in the Half Yearly Compliance Report (HYCR).*
- 12. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 13. The Green belt development in the buffer should commence prior to the commencement of mining in the first year of the project itself by giving preference indigenous plant species and it should be nurtured and maintained in subsequent years.*
- 14. Compensatory afforestation should be done during the 1st year itself and the coordinates of the area should be provided along with HYCR.*
- 15. A copy of the EC shall be marked to IGF (WL), MoEF&CC, PCCF and Chief wild life Warden, Kerala, SEAC, District collector, Pathanamthitta and*

Director Mining and Geology, Department of Industries GOK, besides others for information and necessary further action.

- 16. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
- 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.16

Environmental Clearance for the Granite Building Stone Quarry of Sri. Rajeevan P.V in Re-Sy No. 5 in Thimiri Village, Thaliparamba Taluk, Kannur District Kerala

(EC Proposal No. SIA/KL/MIN/173261/2020, ToR Proposal No. SIA/KL/MIN/41944/ 2019, File No.1431/EC3/SEIAA/2019)

Sri. Rajeevan P.V, S/o Kunhiraman, Puthiya House, Kooveri P.O, Kannur-670581 submitted an application via Parivesh for Environmental Clearance on 15.09.2020 for the Granite Building Stone Quarry project for an area of 0.9936 Ha in Re-Sy No. 5 at Thimiri Village, Thaliparamba Taluk, Kannur District of 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 I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 127th meeting recommended EC for 5 years, subject to certain Specific Conditions in addition to the General Conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Retaining wall should be provided for the dumping site to a height of about 2m.*
- 4. Garland drain should be provided all around the project area with intermittent silt traps, siltation ponds and outflow channel connecting natural drain.*
- 5. The garland drain along with silt traps, siltation ponds and outflow channel should be desilted periodically to avoid obstruction of overland flow and geo-tagged photo of the same should be uploaded in the Half Yearly Compliance Report (HYCR).*
- 6. The transportation of mined material should be prevented during the peak hours in the forenoon and afternoon.*

7. *Sprinkling of water should be done on the un surfaced road prior to each movement of truck.*
8. *The green-belt development should initiate before the commencement of quarry operations. This needs to be done first with fast-growing local tree species and later on with trees of multiple values traditionally preferred in the locality.*
9. *The mining will lead to the development of a quarry pond of depth 10m, which should be safeguarded with barbed wire fencing and gate.*
10. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
11. *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.*
12. *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.*
13. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.17 Application for Environmental Clearance for the proposed Building Stone Quarry Project of Dr. Abraham Sebastian, Proprietor, M/s Nayampadam Granites in Re-Sy Nos. 85/2, 86/1, 86/2 of Keralasseri Village, Palakkad Taluk, Palakkad District (SIA/KL/MIN/266960/2022; 1406/EC2/2019/SEIAA)

Dr. Abraham Sebastian, Proprietor, M/s Nayampadam Granites, Thadukassery, Keralasseri P.O., Palakkad- 678641, vide his application received online and the hard copy of the project received on 08.08.2019 sought Environmental Clearance for the proposed Building Stone Quarry for an area of 0.9941 Ha in Re-Sy Nos. 85/2, 86/1, 86/2 of Keralasseri, Palakkad Taluk, Palakkad District.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 127th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage.*
- 4. The approach roads are narrow and settlements are very close to the roads. To avoid disturbance to the public, one way traffic is to be enforced. Pathirippala –Kongod*

route on the North-Eastern side can be used for entry of vehicles and Thadukkassery road on the southern side of the permit area can be used as an exit road.

- 5. Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the remaining project period.*
- 6. The Green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
- 7. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
- 8. 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.*
- 9. 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.*
- 10. 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 Building Stone Quarry Project of Sri. Sidharthan Thiyyakandy for an area of 0.3914 Ha in Re-Sy No. 15/3 in Atholi Village, Koyilandy Taluk, Kozhikode District, Kerala
(SIA/KL/MIN/ 269684/ 2022, 1360 /EC2/2019/SEIAA)

Sri. Sidharthan, Thiyyakandy House, Cheekilode P.O, Atholi (Via), Kozhikode - 673315, Kerala, vide his application received on 29.05.2019 sought Environmental Clearance under EIA Notification, 2006 for the Building Stone Quarry Project for an area of 0.3914 Ha in Re-Sy No.15/3 in Atholi Village, Koyilandy Taluk, Kozhikode District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 drainage channel should be maintained with utmost care by periodical removal of the silt deposited in the silt traps and by preventing any obstructions to the overland flow.*
- 4. The transportation of mined material should be prevented during the peak hours in the forenoon and afternoon.*

5. *The sprinkling of water should be done on the unsurfaced road before the movement of each truck.*
6. *The green-belt development should be initiated before the commencement of quarry operations. The species selected for green belting should be diverse and preferably locally known and relevant for their multiple values.*
7. *The mining will lead to a quarry pond of depth 5m, which should be safeguarded against any accident.*
8. *The impact of vibration should be monitored in terms of Peak Particle Velocity and Amplitude and included in the HYCR.*
9. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
10. *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.*
11. *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.*

12. 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 proposed Building Stone Quarry project of Sri. Narikkadan Dasan, Managing Partner, M/s Thirumeni Stone Crushers in Re-Sy Nos. 236/3, 237/1 & 238/2 in Thirumeni Village, Payyannur Taluk, Kannur District, Kerala. (SIA/KL/MIN/269882/2022, 1292/EC2/2019/ SEIAA)

Sri. Narikkadan Dasan, Managing Partner, M/s Thirumeni Stone Crushers, Parapoyil, Cherupuzha, Thirumeni P.O, Kannur-670511 Kerala, vide hardcopy of application received on 30.04.2019, sought Environmental Clearance under EIA Notification, 2006 for the Building Stone Quarry Project for an area of 0.9742 Ha in Sy Nos. 236/3, 237/1 & 238/2 in Thirumeni Village, Payyannur Taluk, Kannur District, Kerala.

The Authority perused the proposal along with the field inspection report and a petition filed by the Anti-Quarry Action Committee of the Kannur District and noted the decisions of various SEAC meetings held on different dates. Authority noticed that there is an abandoned quarry in the high hazard zone and harvesting of water in the abandoned quarry is not desirable for any quarry operation in the immediate down slope. Moreover, the terrain slope is very steep to moderately steep and about 75% of the proposed project site is in Medium Hazard Zone as per the landslide susceptibility map prepared by KSDMA. The mining activity will lead to a quarry pond of about 10m depth in a terrain with steep slope, which is not admissible.

In this circumstance, the Authority decided to refer the case back to SEAC for a definite recommendation after getting a definite report from District Collector Kannur who is also the Chairman of District Disaster Management Authority.

Item No.20 Application for Environmental Clearance for Granite Building Stone Quarry of Sri. Jossy Joseph in Survey No.179/3-3, 179/3-4, 221/1, 221/6, 221/6-1 at Manimala Village, Kanjirapally Taluk, Kottayam District, (SIA/KL/MIN/270935/2022, 2430/EC2/2019/ SEIAA)

Sri. Jossy Joseph, Thekkekara (H), Poovatholy P.O, Manimala vide his application received online and the hard copy received on 12/07/19 sought Environmental Clearance under EIA Notification, 2006 for the Granite Building Stone Quarry project for an area of 0.9898 Ha in Sy Nos. 179/3-3, 179/3-4, 221/1, 221/6, 221/6-1 at Manimala Village, Kanjirapally Taluk, Kottayam District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting recommended EC for 2 years, subject to certain Specific Conditions in addition to the General Conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 non-fuel incinerators proposed for PHC as part of CER is not permissible as per the existing norms of PCB. Therefore, an alternate waste management system should be installed in the PHC in consultation with the local panchayat as part of CER. The details of the system implemented should be submitted in detail along with HYCR.*
- 4. The top soil dump should be relocated to a spot outside the project area on the lower elevation with suitable measures to avoid soil erosion.*
- 5. The activities proposed in the CER should be implemented during the first year itself and maintained during the subsequent year.*

6. *The drainage along with silt traps and collection tanks should be desilted periodically to avoid obstruction of overland flow.*
7. *The vibration impact due to blasting on the nearby built structures should be monitored in terms of peak particle velocity and amplitude.*
8. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
9. *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.*
10. *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.*
11. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

Item No.21

**Application for Environmental Clearance of Sri. Joyce Sebastian for Granite Building Stone Quarry project for an area of 0.873 Ha in Re-Sy Nos. 233/4, 233/5, 233/9 in Vellavoor Village, Changanaserry Taluk, Kottayam District.
SIA/KL/MIN/271162/2022, 2431/EC2/2019/SEIAA**

Sri. Joyce Sebastian, Kochumuriyil House, Manimala P.O, Kottayam vide his application received online and the hard copy of the project received on 12.07.19 sought Environmental Clearance under EIA Notification, 2006 for the Granite Building Stone Quarry project for an area of 0.873 Ha in Re-Sy Nos. 233/4, 233/5, 233/9 at Vellavoor Village, Changanaserry Taluk, Kottayam District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting decided to recommend EC with a project life of 3 years, subject to certain Specific Conditions in addition to the General Conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Blasting should not be conducted when the crusher located nearby is in operation.*
- 4. Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the remaining project period.*

5. *The green belt development in the buffer should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
6. *The drainage along with silt traps and collection tanks should be desilted periodically to avoid obstruction of overland flow.*
7. *The vibration impact due to blasting on the nearby built structures should be monitored in terms of peak particle velocity and amplitude.*
8. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
9. *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.*
10. *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.*
11. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

**Item No.22 Application for Environmental Clearance of Granite Building Stone Quarry project of Sri. George Joseph for an area of 0.4478 Ha in Block No.57 Sy No. 149/1 of Moonilavu Village, Meenachil Taluk, Kottayam District, Kerala
SIA/KL/MIN/271234/2022, 2445/EC2/2019/SEIAA**

Sri. George Joseph, Thenganakunnel House, Moonilavu P. O, Kottayam vide his online application and the hard copy of the project received on 12/07/2019 sought Environmental Clearance under EIA Notification, 2006 for the Building Stone Quarry Project for an area of 0.4478 Ha in Block No.57, Sy No.-149/1 of Moonilavu Village, Meenachil Taluk, Kottayam District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Slope stability measures should be implemented as proposed.*
- 4. Rainwater harvesting measures should be undertaken as proposed.*
- 5. Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the remaining project period.*

6. *The green belt development should be done in the first year of the project itself and it should be nurtured and maintained in subsequent years.*
7. *The drainage along with silt traps and collection tanks should be desilted periodically to avoid obstruction of overland flow.*
8. *The vibration impact due to blasting on the nearby built structures should be monitored in terms of peak particle velocity and amplitude.*
9. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
10. *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.*
11. *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.*

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

**Item No.23 Application for Environmental Clearance for the Granite Building Stone Quarry project of Mr. Faisal for an area of 0.8945 Ha in Sy Nos. 257/1/2, 257/1/6, 257/1/7 of Elankur Village, Ernad Taluk, Malappuram District, Kerala
(SIA/KL/MIN/271788/2022; 1282(A)/EC2/ 2019/SEIAA)**

Sri. Faisal, 384, Mundambra (H) Pulath, Karakunnu (P.O) Malappuram Pin 676 123, vide hardcopy of application received on 20.04.2019, sought Environmental Clearance under EIA Notification, 2006 for the Granite Building Stone Quarry project for an area of 0.8945 Ha in Survey No. 257/1/2, 257/1/6, 257/1/7 of Elankur Village, Ernad Taluk, Malappuram District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 retaining wall should be provided for the dumping site of OB and topsoil to a height of about 2m.*

4. *The garland drain and outflow channel should be provided with intermittent silt traps and should be maintained periodically by removing the silt deposit and other obstructions, if any to ensure unobstructed drainage of overland flows.*
5. *The transportation of mined material should be prevented during the peak hours in the forenoon and afternoon.*
6. *Sprinkling of water should be done on the unsurfaced road prior to the movement of each truck.*
7. *The green-belt development should initiate before the commencement of quarry operations.*
8. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
9. *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.*
10. *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.*

11. 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 Granite Building Stone Quarry of Sri. Yespal N.S. for an area of 0.5679 Ha in Re-Sy Nos. 14/8-2, 14/8-3, 14/6, 14/20, 14/23 & 14/24 at Neduvathoor Village, Kottarakkara Taluk, Kollam District.
(SIA/KL/MIN/272116/2022; 2552/EC2/2019/SEIAA)**

Sri. Yespal N.S, Nirappil Veedu, Kizhakkekara, Pulamon, Kottarakara, Kollam District vide his application received online dated 18.03.2019 and the hard copy of the project received on 22.07.19, sought Environmental Clearance for the Granite Building Stone Quarry project for an area of 0.5679Ha in Sy Nos. 14/8-2, 14/8-3, 14/6, 14/20, 14/23 & 14/24 at Neduvathoor Village, Kottarakkara Taluk, Kollam District, Kerala, .

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 126th meeting recommended EC for the project life of 2 years, subject to certain Specific Conditions in addition to the General Conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Measures incorporated in the CER should be implemented in total during the first year and maintained during the subsequent year.*

4. *The approach road should be widened to 7.5m as agreed by the proponent prior to the commencement of mining.*
5. *Compensatory afforestation should be done during the 1st year itself and the coordinates of the area with geotagged photos shall be submitted in HYCR.*
6. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
7. *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.*
8. *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.*
9. *The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.*

& 912 at Thekkumkara Village, Thalappilly Taluk, Thrissur District, Kerala.
(SIA/KL/MIN/272314/2022; 1339/EC2/2019/ SEIAA)

Sri. K. J. Baiju, Managing Partner, M/s. B & B Granites, House No.11/384, Vattai, Kundukadu P.O, Thekkumkara, Thrissur-680028 vide hardcopy of application received on 17.05.2019 sought Environmental Clearance under EIA Notification, 2006 for the Building Stone Quarry project for an area of 0.8075 Ha in Sy No.911 & 912 in Thekkumkara Village, Thalappilly Taluk, Thrissur District, Kerala.

The Authority studied the proposal and noted the decisions of various SEACs meetings, the contents of field inspection report of the Sub-Committee. In the 126th SEAC meeting Committee has recommended EC for 5 years, subject to the production of a certificate from the DFO, Thrissur indicating the distance from the proposed site to the Peechi-Vazhani Wildlife Sanctuary and the Wildlife Clearance from NBWL, if the project area is located within less than 10 km from Peechi-Vazhani Wildlife Sanctuary .

Since, there is vagueness on the distance to the project site from the Peechi-Vazhani Wildlife Sanctuary, the Authority decided to refer the case back to SEAC for definite recommendation, whether the project attracts Wildlife Clearance or not as the EC conditions are quite different in such cases.

Item No.26 Environmental Clearance for the Granite Building Stone Quarry of Smt. Mary Elias for an area of 0.9843 Ha in Sy No. 307/1A/6/4/5 of Kottapady Village of Kothamangalam Taluk of Ernakulam District, Kerala
(SIA/KL/MIN/45413/2019; 1634/EC3/2020/ SEIAA)

Smt. Mary Elias, Kakkadan House, Pattimattom P.O, Ernakulam submitted an application for Environmental Clearance for the Granite Building Stone Quarry project for an area of 0.9843 Ha in Sy No. 307/1A/6/4/5 of Kottapady Village of Kothamangalam Taluk of Ernakulam District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Since the quarry site is located within a distance of 10 km from the Thattekkad Bird Sanctuary, as per OM dated 8.8.2019 of MoEF&CC, Clearance from Standing Committee of the National Board for Wildlife is mandatory for mining activity. Hence the Project Proponent is directed to obtain Clearance from Standing Committee of the National Board for Wildlife before starting any activity at the site.*
- 4. Authority makes it amply clear that EC issued does not necessarily imply that Wildlife clearance shall be granted to the Project Proponent and that the proposal for Wildlife clearance will be considered by the respective Authorities on its merit and decision taken accordingly. The investment made in the project if any based on this EC in anticipation of clearance from Wildlife angle shall be entirely at the cost and risk of the Project Proponent and MoEF&CC and SEIAA shall not be responsible in this regard in any manner.*
- 5. Another quarry is operating at a distance of about 100 m away from the proposed project area and hence care should be taken to avoid simultaneous blasting. The blasting timetable of both the quarries should be fixed at different times through*

mutual consultation and it should be informed to SEIAA prior to commencement of mining.

- 6. Schedule of transportation should be prepared in consultation with the adjacent quarry owner and ensure that the plight of vehicles shall not overlap.*
- 7. The eastern and south-eastern portion of the boundary of the project falls in an abandoned quarry. Therefore, providing buffer zone on the area is difficult. The proponent should undertake compensatory afforestation in the first year itself.*
- 8. Compensatory afforestation should be done with indigenous species of trees and the geo coordinates of the afforested place with photographs should be provided along with HYCR.*
- 9. Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years*
- 10. The garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 11. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 12. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm). As there is a working quarry within 500 mts from the proposed project site, the time of blasting must be scheduled in such a way that it will not cause any damage/disturbance to the life and property in the nearby area. To this effect, an agreement with the owner of the present working quarry adjacent to proposed project, must be signed to streamline the blasting and transportation.*
- 13. 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 a maximum charge per delay and included in the Half Yearly Compliance Report*
- 14. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*

15. *A copy of the EC shall be marked to IGF (WL), MoEF&CC, PCCF and Chief wild life Warden, Kerala, SEAC, District Collector, Ernakulam and Director Mining and Geology, Department of Industries GOK, besides others for information and necessary further action.*
16. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
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. *From the SEAC report it is seen that there are 3 non working quarries and one working quarry within 500 Mts. distance from the project site and the total area is not known. If the total area is more than 5 Ha there will be a cluster situation and the entire area has to be treated as per the standard procedure recommended by SEAC for such cases.*

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

Item No.27 Environmental Clearance for the Granite Building Stone Quarry Project of M/s. Adani Vizhinjam Port Pvt. Ltd. in Block No. 37, Re. Sy Nos. 554/1, 554/5 & 554/6 of Nagaroor Village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District (SIA/KL/MIN/58473/2019, 1405/EC2/2019/SEIAA)

Sri. Rajesh Kumar Jha, CEO, Adani Vizhinjam Port Pvt Ltd, 2nd Floor, Vipanchika Tower, Thycaud submitted an application via PARIVESH on 21/11/2020 for the Granite Building Stone Quarry Project for an area of 2.4706 Ha in Block No. 37, Re. Sy No. 554/1, 554/5 & 554/6 of Nagaroor Village (Kadavilla), Chirayinkeezh Taluk, Thiruvananthapuram District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a period 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 years for the quantity mentioned in the approved Mining Plan after the project Proponent uploads the District Survey Report, Form 1M and Annexures of the Mine Plan, produced during the field inspection and submission of all necessary documents and affidavits as instructed by SEAC in its 128th meeting to the satisfaction of SEIAA. The EC is subject to the following Specific Conditions in addition to the General Conditions.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. Simultaneous blasting in Kadavila I and Kadavila II quarries must be avoided and time schedule must be adopted for blasting.*
- 4. Garland drain should be provided covering the entire project area along with intermittent silt traps and siltation pond of appropriate volume and outflow channel. The entire drain should be desilted periodically for preventing any obstruction to the drainage system.*
- 5. Blasting (NONEL) should be done only with drill hole of 32mm diameter and depth 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m. **An affidavit to this should be submitted by the Proponent.***
- 6. A vibration impact study on various built structures within 200m from the project boundary shall be conducted by engaging a National Institute such as National Institute of Rock Mechanics and their recommendations must be implemented. A copy of the study report should be made available to Dept. of Mining and Geology for their record and future reference.*
- 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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
- 8. Retaining wall of appropriate height should be provided at the overburden dumping site*
- 9. CER Plan should be implemented within the first 18 months and it should be operated and maintained till the mine closure plan is implemented*
- 10. Planting of trees for the development of green belt should be done prior to the commencement of mining and green belt should be nurtured and maintained during the entire project period*
- 11. Temporary wall should be provided wherever green belt cannot be developed due to the presence of barren rock*
- 12. Temporary wall should be provided at the boundary adjacent to the Temple and Thrisoolam structure*

13. *Compensatory afforestation should be initiated before the commencement of mining in available land as tree planting is not feasible along some portion of the buffer zone*
14. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*
15. *Mining activities including loading of mined materials should not be carried out between sun set and sunrise.*
16. *Adequate number of toilets and waste management facility should be provided at the site*
17. *Haulage road should be maintained well with frequent sprinkling*
18. ***The proponent should submit an affidavit stating that all the assurances given during the Public Consultation process will be complied with including the drinking water supply.***
19. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
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.28 Granite Building Stone Quarry of M/S Adani Vizhinjam Port Pvt Ltd (AVPPL) for an area of 4.8556 Ha in Re-Survey Number 341/6 (pt) at Koodal Village, Konni Taluk, Pathanamthitta District, Kerala
(SIA/KL/MIN/ 61070/2019, 1441/EC1/2019/SEIAA)**

Sri. Rajesh Kumar Jha, CEO, Adani Vizhinjam Port Pvt Ltd, 2nd Floor, Vipanchika Tower, Thycaud submitted an application via PARIVESH for the Granite Building Stone Quarry of M/S Adani Vizhinjam Port Pvt Ltd (AVPPL) for an area of 4.8556 Ha in Re-Sy No. 341/6 (pt) at Koodal Village, Konni Taluk, Pathanamthitta District, Kerala.

The Authority perused the proposal and noted the decisions of various SEAC meetings held on different dates. Authority noticed that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Filed Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for 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 years for the quantity mentioned in the approved Mining Plan subject to the following Specific Conditions in addition to the General Conditions.

The issuance of EC is subject to the proper submission of all necessary documents and affidavits as instructed by SEAC in its 128th meeting to the satisfaction of SEIAA.

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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. *Blasting (NONEL) should be done only with drill hole of 32mm diameter and depth 1.5m loaded with a maximum of 375 gm of explosive in each hole of the array with a burden of 1.5m and spacing of 1m. **An affidavit to this should be submitted by the Proponent.***
4. *The Boundary Pillars should be changed to concrete poles and the number of the boundary pillars as given in the approved Mine Plan and coordinates should be marked in paint. **The photograph of the all the Boundary Pillars should be submitted prior to the issue of EC.***
5. *Though the quantity of overburden is less, the proponent should maintain distance criteria as per existing norms from the nearby houses and other built structures such as the Inchappara- Athirunkal road to the boundary of overburden dumpsite and the boundary of the project site. **An affidavit and a map showing the location should be submitted prior to the issuance of EC.***
6. ***The proponent should submit an affidavit stating that all the assurances given during the Public Consultation process will be complied with.***
7. *A proper retaining wall/ gabion wall should be constructed to prevent topsoil and overburden runoff during rains.*
8. *A check dam should be constructed for storage of water and recharge of low-lying areas. The structures should be constructed as per the existing distance norms.*
9. *The garland canal, silt traps, siltation ponds and outflow channel should be desilted and cleaned periodically and geotagged photographs of the same should be submitted along with Half-Yearly Compliance Report.*
10. *The turbidity of outflowing water along with other parameters as per the environmental monitoring plan should be monitored during different seasons and included in the Half-Yearly Compliance Report.*

11. *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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
12. *The buffer zone should be enriched with more indigenous plants as specified in the biodiversity assessment report. The same plants should be used for the compensatory afforestation and green belt development. Details of indigenous trees planted during the first three months from the date of issuance of EC should be submitted along with a plan for the remaining period.*
13. *Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm). As there are working quarries adjacent to the proposed project site, the time of blasting must be scheduled in such a way that it will not cause any damage/disturbance to the life and property in the nearby area. To this effect, an agreement with the owners of the present working quarries adjacent to proposed project, must be signed to streamline the blasting and transportation.*
14. *Mining activities including loading of mined materials should not be carried out between sun set and sunrise .*
15. *The natural canals including Erattathodu flowing through the adjacent areas should be properly protected and maintained*
16. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
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.29 Environmental Clearance for the Granite Building Stone Quarry Project of Sri. Mammed Kunhi Haji for an area of 1.7396 Ha in Sy No. 92/pt in Pulpatta Village, Ernad Taluk, Malappuram District (SIA/KL/MIN/93154/2019; 1235/EC2/2019/SEIAA)

Sri. Mammed Kunhi Haji, N. P. House, Nellikkaparamba P.O, Kozhikkode – 673 602 submitted an application in SEIAA through PARIVESH on 28.01.2019 for Environmental Clearance for the Granite Building Stone Quarry project for an area of 1.7396 Ha in Sy No. 92/pt at Pulpatta Village, Ernad Taluk, Malappuram District.

Authority noted that the SEAC had appraised the proposal based on Form I, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Mining Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for the project life of 12 years subject to review every 5 years and 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 decided to issue Environmental Clearance initially for a period of 5 years for the quantity mentioned in the approved mining plan and to extend the EC period to cover project life of 12 years, from the date of issuance of original EC, subject to the review by SEAC at the end of five years, to verify whether the Project Proponent has violated any of the EC conditions and thereby caused any damage to the Environment in the project region by violating EC conditions.

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

- 1. The proponent shall carry out quarrying as per the approved Mining Plan and the 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 garland canal, silt traps, siltation pond and outflow channel should be provided covering the entire project area.*
- 4. The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage and geotagged photograph should be incorporated in the Half Yearly Compliance Report.*
- 5. Green belt development in the buffer should be done in the first year of the project itself using trees of indigenous species and it should be nurtured and maintained in subsequent years*
- 6. Compensatory afforestation should be done with indigenous fruit trees and the geocoordinates of the afforested place with photographs should be provided along with HYCR.*
- 7. Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
- 8. Transportation of mined material should not be done during the peak hours in the forenoon (8.30am to 10.30am) and afternoon (3.30pm to 5 pm).*

9. *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 a maximum charge per delay and included in the Half Yearly Compliance Report.*
10. *The overburden dumping site should be located at the lowest portion of the project area and it should be protected with appropriate retaining wall.*
11. *Measures incorporated in the CER should be implemented in total during the first two years and it should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.*
12. *As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.*
13. *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.*
14. *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.*

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

**Item No.30 Environmental Clearance of the Residential Building Project “Jains Marine Bay” in Re-Sy Nos. 281/7-2, 280/5-2, 280/4, 281/8-2, 281/5-2, 281/73, 280/83, 281/13, 280/32, 280/2, 281/3, 281/4, 281/22, 281/114, 281/93, 281/152, 281/162, 280/7, 281/1, 281/18, 281/12, 281/19, 281/6-2, 280/6 Mulavukad Village, Kanayannur Taluk, Ernakulam District
(SIA/KL/MIS/142842/2020; 1741/EC3/2020/SEIAA)**

Residential Building Project “Jains Marine Bay” submitted an application for EC in Re-Sy Nos. 281/7-2, 280/5-2, 280/4, 281/8-2, 281/5-2, 281/73, 280/83, 281/13, 280/32, 280/2, 281/3, 281/4, 281/22, 281/114, 281/93, 281/152, 281/162, 280/7, 281/1, 281/18, 281/12, 281/19, 281/6-2, 280/6 at Mulavukad Village, Kanayannur Taluk, Ernakulam District.

The Authority perused the item and noted the decisions of various SEACs meetings, the contents of field inspection report of the Sub-Committee. In the 128th SEAC meeting Committee has recommended EC for a period of 7 years, subject to the production of a certificate CRZ Clearance and Wildlife Clearance from NBWL. If the project attracts CRZ regulations, the Authority has to issue Composite Environmental Clearance and CRZ Clearance, after obtaining the recommendations of the Kerala Coastal Zone Management Authority.

Under the circumstances, the Authority decided to direct the proponent to submit the following documents:

1. CRZ Clearance from KCZMA.
2. Proof of application submitted to NBWL for Wildlife Clearance.

**Item No.31 Environmental Clearance for the proposed Development of Malabar Cancer Centre as Postgraduate Institute of Oncology Sciences and Research - Phase II, Thalasseri Kannur District, Kerala.
(SIA/KL/MIS/208403/2021) {1898/EC4/2021/SEIAA}**

Dr. B. Satheesan, Director, Malabar Cancer Centre, Kannur submitted an online application for Environmental Clearance in SEIAA for the proposed expansion of existing Malabar Cancer Centre as Postgraduate Institute of Oncology Sciences and Research in Sy. Nos. 42/1, 41/13, 41/12, 38/3, 38/4, 37/1, 37/3, 39/8, 39/9, 39/10, 39/11, 34/3c2, 36/1, 36/2, 36/8. Kodiyeeri Village, Thalassery Taluk, Kannur District, Kerala.

Authority noted that the SEAC had appraised the proposal based on Form 2, Pre-Feasibility Report, additional details/documents obtained from the proponent during appraisal, Conceptual Plan and the Field Inspection Report. After the due appraisal, the SEAC in its 128th meeting recommended EC for a period of 7 years subject to certain Specific Conditions in addition to the General Conditions.

Authority decided to issue Environmental Clearance for a period of 7 years for the expansion of existing Malabar Cancer Centre as Postgraduate Institute of Oncology Sciences and Research subject to the following Specific Conditions in addition to the General Conditions.

- 1. Climate responsive design as per Green Building Guidelines in practice should be adopted*
- 2. Vide GO (MS) No. 39/2022/LSGD dated 25.2.2022, the Government of Kerala has introduced Green rating and Green building certification to buildings based on green standards. The guidelines published as part of the GO should be adhered to.*
- 3. Vegetation should be adopted appropriately on the ground as well as over built structures such as roofs, basements, podiums etc.*
- 4. Green belt development surrounding the campus, avenue tree planting and garden development should commence from the beginning of the construction phase. Only indigenous species should be used for green belt and avenue trees.*
- 5. Exposed roof area and covered parking should be covered with material having high solar reflective index*
- 6. Building design should cater to the differently-abled citizens*
- 7. Provide safe and healthy basic facilities for construction workers as per the Building & Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996.*

8. *Appropriate action should be taken to ensure that the excess rainwater runoff reaches the nearest main natural drain of the area unpolluted and if necessary, carrying capacity of the natural drain should be enhanced to contain the peak flow*
9. *Water efficient plumbing features should be adopted*
10. *Design of the building should be in compliance to Energy Conservation Building Code as applicable*
11. *Energy conservation measures as proposed in the application should be adopted in total. In addition to the 150 KW Solar system without battery for utility load mounted on terrace, adequate battery linked solar system should also be installed as make up energy supply so as to reduce the fuel-based energy use.*
12. *The garland canal, silt traps, siltation pond and outflow channel should be desilted periodically to facilitate unhindered overland drainage.*
13. *The drainage along with silt traps, collection tanks and outflow channel should be desilted periodically and geo tagged photograph should be incorporated in the Half Yearly Compliance Report.*
14. *The proponent should submit an affidavit stating that a large water harvesting structure will be developed and managed for meeting the additional water demand as the water supply from KWA is restricted to only three days in a week and the yield of the open well is inadequate to meet the demand.*
15. *Adequate built-in composting facility should be set up for the treatment of biodegradable waste as the capacity or the number of BIOBIN proposed is inadequate.*
16. *Adequate and covered storage area should be provided for the storage of non-degradable waste generated for at least 30 days. Additional space should also be provided for the storage of Hazardous Waste and E- waste. The non-degradable solid waste (dry waste) so stored should be handed over to Recyclers/ Local body/ Vendors on a regular basis.*
17. *Rainwater harvesting pond should be linked with the water treatment plan.*
18. *Measures incorporated in the CER should be implemented in total during the first five years and it should be operated and maintained during the subsequent years.*

19. As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the project Proponent shall prepare an Environment Management Plan (EMP) as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, indicating both physical and financial targets year wise. The EMP shall be implemented in consultation with local self Govt. Institutions. The indicated cost for CER shall be 2% of the project cost depending upon the nature of activities proposed. The follow up action on implementation of CER shall be included in the Half Yearly Compliance Report which will be subjected to field inspection at regular intervals. A copy of the approved EMP shall be made available to the concerned Panchayat for information and implementation support.
20. The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.
21. 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).

CONSIDERATION OF TOR PROPOSALS

Item No.1 **ToR Application for the Proposed Granite Building Stone Quarry of Sri. Rajeevan P.V in Re-Sy No. 5 in Thimiri Village, Thaliparamba Taluk, Kannur District Kerala (SIA/KL/MIN/41944/2019) (File No.1431/EC3/SEIAA/2019)**

Decision taken in the EC Proposal, Item No.16

Item No. 2 ToR Application for the proposed New Building Stone Quarry (Minor Mineral) project of M/s Daiwik Industries Pvt. Ltd. in Block No.48, Re-Sy Nos. 345/3, 345/3-1, 345/4, 345/6, 346/1-1, 346/1-2, 346/1-3, 346/1-4, 346/1-5, 346/1-7, 346/1-8, 346/1-9, 346/2-1, 346/3, 346/4, 347/1, 347/2, 347/2-1, 347/2-3, 347/2-4, 347/3-2, 347/4, 347/5, 354/1-3, 354/1-5, 354/1-5-1, 354/1-7, 354/1-7-1, 354/1-16, 355/6, 355/7, Aryanad Village, Nedumangad Taluk, Thiruvananthapuram District, Kerala (SIA/KL/MIN/72422/2022; 1935/EC1/2022/SEIAA)

Sri. N. Vinodlal, Daiwik Industries Pvt. Ltd. T.C. 15/836, Vazhuthacaud P.O., Behind Trivandrum Club, Sasthamangalam, Thiruvananthapuram, Kerala-695010 submitted an application via PARIVESH on 21/02/2022 for the proposed Building Stone Quarry (Minor Mineral) project of M/s Daiwik Industries Pvt. Ltd. for an area of 5.4586 Ha in Block No.48, Re-Sy Nos. 345/3, 345/3-1, 345/4, 345/6, 346/1-1, 346/1-2, 346/1-3, 346/1-4, 346/1-5, 346/1-7, 346/1-8, 346/1-9, 346/2-1, 346/3, 346/4, 347/1, 347/2, 347/2-1, 347/2-3, 347/2-4, 347/3-2, 347/4, 347/5, 354/1-3, 354/1-5, 354/1-5-1, 354/1-7, 354/1-7-1, 354/1-16, 355/6, 355/7, Aryanad Village and Panchayat, Nedumangad Taluk, Thiruvananthapuram District, Kerala.

The Authority noted that the proposal was placed in the 128th SEAC meeting, the Committee examined and discussed the application for ToR and decided to approve Standard Terms of Reference along with certain additional studies.

The Authority decided to approve the Standard Terms of Reference with the following additional aspects for EIA Study.

- 1) Slope stability**
- 2) Impact of vibration on nearby houses and built structures**
- 3) Impact of hydrologic modification, if any**
- 4) Impact on biodiversity.**

Item No. 3 Construction of Twin Tube Unidirectional Tunnel Road (2+2 Lane) with Four Lane Approach (from existing roads) for providing direct connectivity between Aanakampoyil Kalladi - Meppadi in Kozhikode and Wayanad Districts of Kerala State. (SIA/KL/MIS/76817/2022; 1992/EC2/2022/SEIAA)

The Executive Engineer, Kerala Public Works, Department of Roads Division, Kozhikode submitted an application on 16.05.2022 in PARIVESH Portal for the construction of Twin Tube Unidirectional Tunnel Road (2+2 Lane) with Four Lane Approach (from existing roads) as an expansion of two State Highways for providing direct connectivity between SH 29 and SH 68 through two district roads - Aanakampoyil Kalladi - Meppadi in Kozhikode and Wayanad Districts of Kerala received.

The Authority noted that the proposal was placed in the 128th SEAC meeting, the Committee examined the draft ToR submitted and decided to approve the Standard Terms of Reference with certain additional studies for a comprehensive EIA report.

The Authority decided to approve the Standard Terms of Reference with the following additional aspects for a comprehensive EIA Study as recommended by SEAC.

- a. Impact of removal of rocks from the tunnel entry and core region including its impact on springs and groundwater regime and management plan.*
- b. Impact of vibration due to tunnelling and blasting on the buildings and other built structures on the ground above and its immediate vicinity in the impact zone and mitigation plan*
- c. Impact of seepage water and its management plan*
- d. Predicted air quality within the tunnel entry and tunnel core region*
- e. Impact of fractured rock collapse and its management plan*
- f. Impact of hydrologic modifications, if any, and its management plan*
- g. Impact of transportation of material removed from the tunnel and construction material and transportation management plan.*
- h. Impact of increased traffic on the feeder roads on both the ends of the tunnel based on detailed traffic survey*
- i. Evaluation of the risks and accidents during the construction and operational phases and management plan*
- j. Impact on the biodiversity of the region and site-specific management measures*
- k. Impact of the displacement of terrestrial, aquatic and avian fauna, if any, and management plan.*
- l. Impact on the demographic structure and social infrastructure of the impact zone, if any, and management measures*

- m. Impact of heating, ventilation and air condition impact within the tunnel and the management measures*
- n. Details of Rehabilitation and Resettlement action plans, if required*
- o. Environmental cost benefit analysis of the proposal*
- o. The EIA report should be a comprehensive one that cover all the seasons.*

Item No. 4 ToR Application for the Granite Building Stone Quarry Project of Sri. K J Thomaskutty for an area of 4.5868 hectares in Re-Sy Nos. 161/1, 163/4, 177/1, 177/2/1, 177/7, 177/7-1, 164/1/4, 163/3, 161/1/2, 162, 159/3-1, 160/2-2, 160/2-3 of Alakkode Village, Thodupuzha Taluk, Idukki District, and Kerala (SIA/KL/MIN/73783/2022; 1938/EC3/2022/SEIAA)

Sri. K. J. Thomaskutty, Managing Partner, M/s. St Martin Granites, Anchiri P.O, Thodupuzha, Idukki submitted an application for Terms of Reference for the Granite Building Stone Quarry Project for an area of 4.5868 hectares in Re Survey No. 161/1, 163/4, 177/1, 177/2/1, 177/7, 177/7-1, 164/1/4, 163/3, 161/1/2, 162, 159/3-1, 160/2-2, 160/2-3 of Alakkode Village, Thodupuzha Taluk, Idukki District, and Kerala.

The Authority noted that the proposal was placed in the 128th SEAC meeting, the Committee examined the application for ToR and discussed the proposal and decided to approve Standard Terms of Reference along with certain additional studies.

The Authority decided to approve the Standard Terms of Reference with the following additional aspects for EIA Study.

1. Slope stability
2. Impact of vibration on nearby houses and built structures
3. Breach potential of stored water in abandoned quarry pits.

Item No.5 ToR Application for the proposed Granite Building Stone Quarry of Sri. C.H. Sakkariya, President, M/s Mannarkkad Taluk Karinkal Quarry Operators Vyavasaya Sahakarna Sangam Ltd. for an area of 2.7386 Ha in Survey No. 390/1a of Thachanattukara-

**I & 54/8 of Thachanattukara-II Village, Mannarkkad Taluk,
Palakkad District, Kerala
(SIA/KL/MIN/73550/2022,1960/EC1/2022/SEIAA)**

Sri. C. H. Sakkariya, President, M/S. Mannarkkad Taluk Karinkal Quarry Operators Vyavasaya Sahakarana Sangam Limited, Sind (P) 179, Pulliserry P.O., Mannarkkad, Palakkad District – 678 582 submitted an application for ToR via PARIVESH on 13/04/2022 for the proposed Granite Building Stone Quarry for an area of 2.7386 Ha in Sy No. 390/1a of Thachanattukara-I & 54/8 of Thachanattukara-II Village, Mannarkkad Taluk, Palakkad District, Kerala.

The Authority noted that the proposal was placed in the 128th SEAC meeting, the Committee examined & discussed the application for ToR and decided to approve Standard Terms of Reference along with certain additional studies.

The Authority decided to approve the Standard Terms of Reference with the following additional aspects for EIA Study.

- 1) Slope stability
- 2) Impact of vibration on nearby houses and built structures
- 3) Impact of hydrologic modification, if any
- 4) Impact on biodiversity.

**Item No. 6 ToR Application of Sri. M. K. Shaji for the proposed Granite Building Stone Quarry Project for an area of 2.1058 Ha in Re- Sy Nos. 231/1, 226/1 of Elankur Village, Ernad Taluk, Malappuram District, Kerala
(SIA/KL/MIN/74947/2022, 1983/EC6/2022/SEIAA)**

Sri. M. K. Shaji, S/o Kumaran, Mekunneel House, Manhappatta. P.O, Malappuram District, Kerala –676122, submitted an application for ToR in SEIAA through PARIVESH on 09.04.2022 for the Granite Building Stone Quarry Project for an area of 2.1058 Ha in Sy Nos. 231/1, 226/1 of Elankur Village, Ernad Taluk, Malappuram District, Kerala.

The Authority noted that the proposal was placed in the 128th SEAC meeting, the Committee examined and discussed the application and decided to approve Standard Terms of Reference along with certain additional studies.

The Authority decided to approve the Standard Terms of Reference with the following additional aspects for EIA Study.

- 1) Slope stability
- 2) Impact of vibration on nearby houses and built structures
- 3) Impact of hydrologic modification, if any
- 4) Impact on biodiversity.

General Decisions

- 1) Applications for Environmental Clearance without mandatory documents such as approved Mining Plan, PFR, EMP, DSR & incomplete Form 2 shall be delisted at the initial stage itself without prior notice to the Project Proponent. This may also be displayed in the office website for information.

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

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

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