



सत्यमेव जयते

File No.: 9550
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA),
TAMIL NADU)



Dated 14/05/2024



To,

EAGANATHAN JAGADEESAN
EAGANATHAN JAGADEESAN
S/o of Eganathan, No. 5/50, Thiruvalluvar Nagar, Krishnagiri District, Tamilnadu - 635001,
KRISHNAGIRI, TAMIL NADU, 635001
jagadeesangreygranite@gmail.com

Subject: Grant of prior Environmental Clearance (EC) to the proposed Mining Project under the provisions of EIA Notification 2006-regarding

Reference:

1. ToR issued vide Lr No.SEIAA-TN/F.No.9550/ToR-1514/2022, Dated:01.08.2023
2. Public Hearing conducted on 26.10.2023.
3. Online Proposal No. SIA/TN/MIN/454104/2023 Dt:02.12.2023
4. Project proponent submitted EIA Report to SEIAA-TN on: 14.12.2023.
5. The Project Proponent furnished reply on 01.03.2024

Sir/Madam,

This is in reference to your application submitted to SEIAA vide proposal number SIA/TN/MIN/454104/2023 dated 24/02/2024 for grant of prior Environmental Clearance (EC) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23B0108TN5930261N
(ii) File No.	9550
(iii) Clearance Type	Fresh EC
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	Jagadevipalayam Village Grey Granite Quarry
(ix) Location of Project (District, State)	KRISHNAGIRI, TAMIL NADU
(x) Issuing Authority	SEIAA
(xii) Applicability of General Conditions	No

3. In view of the particulars given in the Para 1 above, the project proposal interalia including Form-2(Part A, B and C)/ EIA & EMP Reports were submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.
4. The above-mentioned proposal has been considered by SEIAA in the meeting held on 29/04/2024. The minutes of the meeting and all the project documents are available on PARIVESH portal which can be accessed from the PARIVESH portal by scanning the QR Code above.
5. The SEAC, based on information submitted viz: Form 1 (Part A, B and C), EIA/EMP report etc., & clarifications provided by the project proponent and after detailed deliberations on all technical aspects and public hearing issues and compliance thereto furnished by the Project Proponent, recommended the proposal for grant of Environment Clearance under the provision of EIA Notification, 2006 and as amended thereof subject to stipulation of Specific and Standard EC conditions as detailed in the point below..
6. The SEIAA has examined the proposal in accordance with the provisions contained in the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and based on the recommendations of the SEIAA hereby accords Environment Clearance for the instant proposal to M/s. EAGANATHAN JAGADEESAN under the provisions of EIA Notification, 2006 and as amended thereof subject to compliance of the Specific and Standard EC conditions as given in Annexure (2)
7. The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.
8. The Environmental Clearance to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
9. The PP is under obligation to implement commitments made in the Environment Management Plan, which forms part of this EC.
10. Salient features of the proposal are as follows:

Sl. No	Salient Features of the Proposal	
1.	Name of the Owner/Firm	<u>Thiru.E.Jagadeesan</u> S/o.Eganathan, No.5/50, Thiruvalluvar Nagar, Krishnagiri District
2.	Type of quarrying	Grey Granite
3.	S.F Nos. of the quarry site	353/2A1B, 2A7, 2B, 2C1 & 2E1A
4.	Village in which situated	Jagadevipalayam
5.	Taluk in which situated	Bargur
6.	District in which situated	Kirishnagiri
7.	Extent of quarry (in ha.)	1.56.5Ha
8.	Latitude & Longitude of all corners of the quarry site	12°28'34.91765"N to 12°28'40.90210"N 78°21'11.18021"E to 78°21'17.84397"E
9.	Topo Sheet No.	57 – L/7
10.	Type of mining	Opencast Semi - Mechanized of Mining
11.	Period of Current Mine Plan	5 years
12.	Production (Quantity in m ³)	51,764m³ of Granite
13.	Depth of Quarrying	36m BGL
14.	Depth of water table	40m BGL
15.	Man Power requirement per day:	21 Nos.
16.	Water requirement:	3.0 KLD
	i) Drinking Water & Domestic Purpose	0.3 KLD
	ii) Dust suppression	0.7 KLD
	iii) Green belt	1.5 KLD

		0.5 KLD
17.	Power requirement	TNEB
18.	Precise area communication approved by the Industries Department of Geology and Mining with date	G.O.(3D). No. 42 Industries, (MME.2) Dept. date: 20.09.2018
19.	Mining Plan approved by Commissioner, Department of Geology and Mining with date	Roc.No.5254/MM4/2022, dt: 14.10.2022
20.	Deputy Director, Department of Geology and Mining 500m cluster letter	Roc.No.1201/2022/Mines, dt: 28.10.2022
21.	VAO certificate regarding structures within 300m radius	Letter dt: 27.10.2022.
22.	Project Cost (excluding EMP cost)	Rs.78 Lakh
23.	EMP cost (in Rs. Lakh)	Capital Cost: Rs.7.38 Lakhs Recurring Cost: Rs.6.28 Lakhs
24.	CER cost (in Rs. Lakh)	Rs.5.00 Lakhs

Validity:

This Environmental Clearance is accorded for the quantity of 51,764m³ of Granite up to the ultimate depth of 36m BGL and the annual peak production should not exceed 10,980 m³ of Granite which includes 3294m³ @30% Recovery & 7686m³ @70% Reject.

The Environmental Clearance issued is valid as per the approved mine plan period and as per MoEF&CC's notification S.O.1533(E) dated 14.09.2006 and S.O. 1807(E) dated 12.04.2022.

General Instructions:

1. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of SEIAA website where it is displayed.
 2. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn must display the same for 30 days from the date of receipt.
 3. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.
 4. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.
 5. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 6. The Regional Office of this SEIAA shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.
 7. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
11. This issue with an approval of the Competent Authority. For information on deliberations, refer to the minutes of SEAC and SEIAA available in the PARIVESH Portal

Copy To

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi.
2. The Additional Chief Secretary to Government, Environment, Climate Change and Forests Department, Tamil Nadu.
3. The Additional Chief Secretary to Government, Natural Resources Department, Tamil Nadu.
4. The Additional Principal Chief Conservator of Forests, Regional Office (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34.
5. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
6. The Chairperson, TNPC Board, 76, Mount Salai, Guindy, Chennai-32.
7. The District Collector, Krishnagiri District.
8. The Commissioner of Geology and Mines, Guindy, Chennai - 32.
9. Deputy Director, Department of Geology & Mining, Krishnagiri District.
10. EI Division, Ministry of Environment & Forests, Paryavaran Bhawan, New Delhi.
11. File Copy.

Annexure 1**Specific EC Conditions for (Mining Of Minerals)****1. Seiaa Specific Conditions:**

S. No	EC Conditions
1.1	<p>1. Keeping in view of MoEF&CC's notification S.O.1533(E) dated.14.09.2006 and S.O. 1807(E) dated 12.04.2022, this Environmental Clearance is valid as per the approved mine plan period.</p> <p>2. The EC granted is subject to review by District Collector, Mines Dept. and TNPCB on completion of every 5 years and also during the mine plan period, till the project life so as to review the EC conditions and to ensure that they have all been adhered to and implemented.</p> <p>3. The project proponent shall submit a Certified Compliance Report obtained from IRO of MoEF&CC to the monitoring, regulatory and other concerned authorities including SEIAA, while seeking a renewal of the mining plan to cover the project life.</p> <p>4. The progressive and final mine closure plan including the green belt implementation and environmental norms should be strictly followed as per the EMP and as per the amount committed and approved in EC for EMP.</p> <p>5. As per the OM vide F. No. IA3-22/1/2022-IA-III [E- 172624] Dated: 14.06.2022, the Project Proponents are directed to submit the six-monthly compliance on the environmental conditions prescribed in the prior environmental clearance letter(s) through newly developed compliance module in the PARIVESH Portal from the respective login.</p> <p>6. The amount allocated for EMP should be kept in a separate account and both the capital and recurring expenditures should be done year wise for the works identified, approved and as committed. The work & expenditure made under EMP should be elaborated in the bi-annual compliance report submitted and also should be brought to the notice of concerned authorities during inspections.</p> <p>7. The project proponent shall utilize the Topsoil/Weathered rock for the progressive/final mine closure plan</p>

2. Seiaa Standard Conditions:

S. No	EC Conditions
2.1	a) EC Compliance:

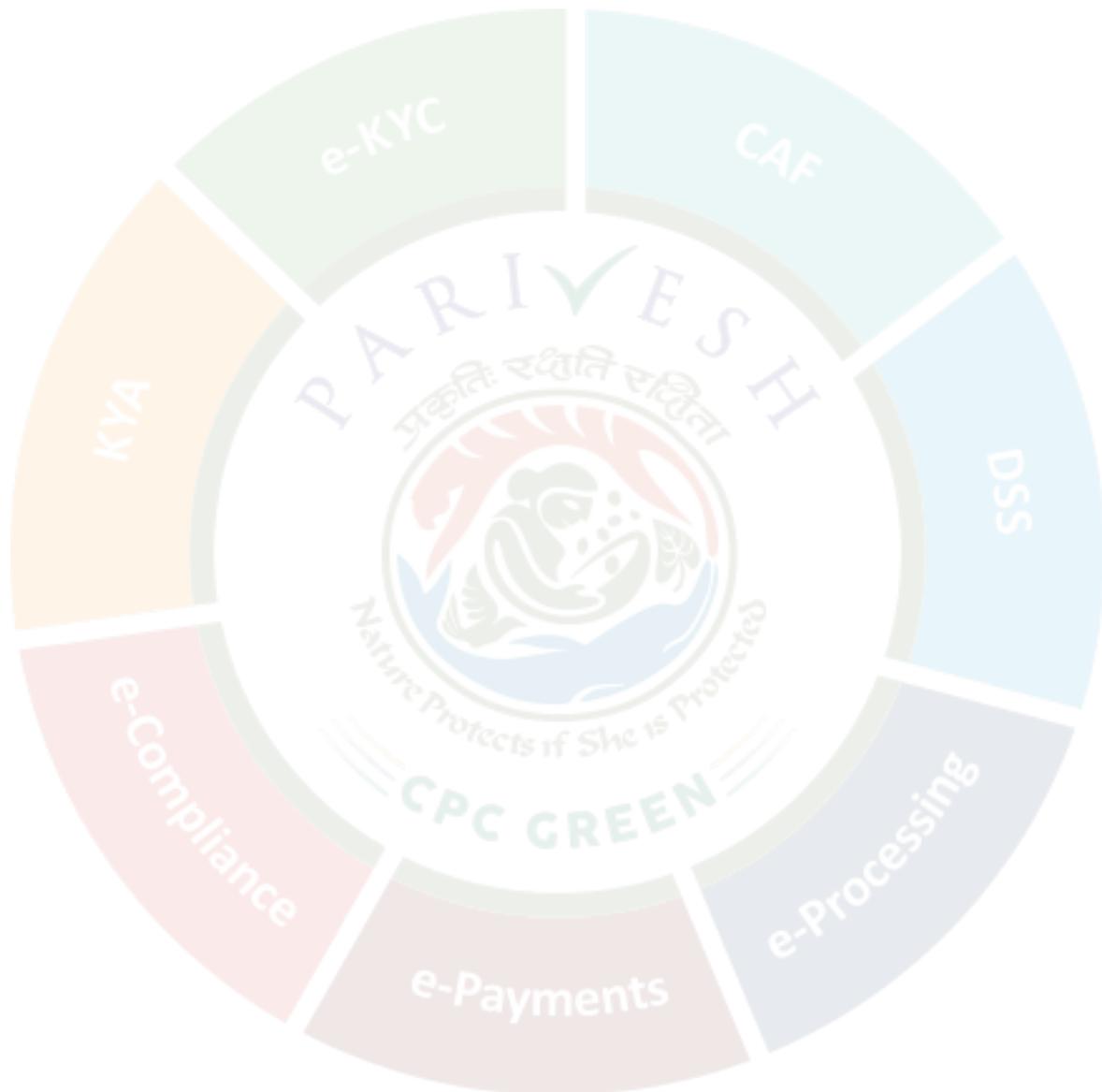
S. No	EC Conditions
	<p>1. The Environmental Clearance is accorded based on the assurance from the project proponent that there will be full and effective implementation of all the undertakings given in the Application Form, Pre-feasibility Report, mitigation measures as assured in the Environmental Impact Assessment/ Environment Management Plan and the mining features including Progressive Mine Closure Plan as submitted with the application.</p> <p>2. All the conditions as presented by the proponent in the PPT during SEAC appraisal should be addressed in Full.</p> <p>3. The proponent shall submit Compliance Reports on the status of compliance of the stipulated EC conditions including results of monitored data. It shall be sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA).</p> <p>4. Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p> <p>b) Applicable Regulatory Frameworks:</p> <p>5. The project proponent shall strictly adhere to the provisions of Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments, Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006, Wildlife Protection Act, 1972, Forest Conservation Act, 1980, Biodiversity Conservation Act, 2016, the Biological Diversity Act, 2002, Biological diversity Rules, 2004 & TN Forest Act, 1882 and Rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter</p> <p>c) Safe mining Practices:</p> <p>6. The AD/DD, Dept. of Geology & Mining shall ensure operation of the proposed quarry after the submission of slope stability study conducted through the reputed research & Academic Institutions such as NIRM, IITs, NITS Anna University, and any CSIR Laboratories etc and ensure strict compliance and implementation of bench wise recommendations/action plans as recommended in the scientific slope stability study.</p> <p>7. A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.</p> <p>d) Water Environment – Protection and mitigation measures:</p> <p>8. The proponent shall ensure that the activity does not disturb the water bodies, neighboring open wells, bore wells and natural flow of surface and groundwater, nor cause any pollution, to water sources in the area nor effect the water quality and water quantity in the water sources.</p> <p>9. Water level in the nearest dug well in the downstream side of the quarry should be monitored regularly and included in the Compliance Report.</p> <p>10. Quality of water discharged from the quarry should be monitored regularly as per the norms of State Pollution Control Board and included in the Compliance Report.</p> <p>11. Rain Water Harvesting facility should be installed as per the prevailing provisions of TNMBR/TNCDBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.</p> <p>12. Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the compliance reports to SEIAA. At any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.</p> <p>13. Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour</p>

S. No	EC Conditions
	<p>has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.</p> <p>e) Air Environment – Protection and mitigation measures:</p> <p>14. The activity should not result in CO₂ release and temperature rise and add to micro climate alternations.</p> <p>15. The proponent shall ensure that Monitoring is carried out with reference to the quantum of particulate matter during excavation; blasting; material transport and also from cutting waste dumps and haul roads.</p> <p>f) Soil Environment – Protection and mitigation measures:</p> <p>16. The proponent shall ensure that the operations neither result in loss of soil biological properties and nutrients nor deplete the indigenous soil seed bank and disturb the mycorrhizal fungi, soil organism, soil community and result in eutrophication of soil and water. Further, the activities should not disturb the soil properties and seed and plant growth. Soil amendments as required to be carried out, to improve soil health.</p> <p>17. Bio remediation using microorganisms should be carried out to restore the soil environment to enable carbon sequestration.</p> <p>18. The proponent shall ensure that the mine restoration is done using mycorrhizal VAM, vermicomposting, Biofertilizers and the topsoil is protected and used in planting activities, site restoration and establishment of green belt in the area to ensure soil health and biodiversity conservation.</p> <p>19. The top soil shall be temporarily stored at earmarked place (s) and used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geotextile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.</p> <p>20. Activities should not result in invasion of site by exotic and alien plant and animal species and disturb the native biodiversity and soil micro flora and fauna.</p> <p>g) Noise Environment – Protection and mitigation measures:</p> <p>21. The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines. The activity of the proponent should not effect the biological clock of the villages resulting in stress, sleeping disorders affecting health.</p> <p>h) Biodiversity - Protection and mitigation measures:</p> <p>22. The proponent should ensure that there is no disturbance to the agriculture plantations, social forestry plantations, waste lands, forests, sanctuary or national parks. There should be no impact on the land, water, soil and biological environment and other natural resources due to the mining activities.</p> <p>23. No trees in the area should be removed and all the trees numbered and protected. In case trees fall within the proposed quarry site the trees may be transplanted in the Greenbelt zone. The proponent shall ensure that the activities in no way result in disturbance to forest and trees in vicinity. The proponent shall ensure that the activity does not disturb the movement of grazing animals and free ranging wildlife. The proponent shall ensure that the activity does not disturb the biodiversity, the flora & fauna in the ecosystem. The proponent shall ensure that the activities do not disturb the resident and migratory birds. The proponent shall ensure that the activities do not disturb the vegetation and wildlife in the adjoining reserve forests and areas around. Also, the activities should not disturb the agro biodiversity, agro farms, green lands and grazing fields of all types. Actions to be taken to promote agroforestry, mixed plants to support biodiversity conservation in the mine restoration effort.</p> <p>24. The proponent shall ensure that all mitigation measures listed in the EIA/EMP are taken to protect the biodiversity and natural resources in the area.</p>

S. No	EC Conditions
	<p>i) Climate Change:</p> <p>25. There should be least disturbance to landscape resulting in land use change, contamination and alteration of soil profiles leading to Climate Change.</p> <p>26. Operations should not result in GHG releases and extra power consumption leading to Climate Change.</p> <p>27. Mining through operational efficiency, better electrification, energy use, solar usage, use of renewable energy should try to decarbonize the operations.</p> <p>28. Mining should not result in water loss from evaporation, leaks and wastage and should support to improve the ground water.</p> <p>29. Mining activity should be flood proof with designs and the drainage, pumping techniques shall ensure climate-proofing and socio-economic wellbeing in the area and vicinity.</p> <p>j) Reserve Forests & Protected Areas:</p> <p>30. The activities should provide nature based support and solutions for forest protection and wildlife conservation.</p> <p>31. The project activities should neither result in forest fires, encroachments nor create forest fragmentation and disruption of forest corridors and alter the geodiversity and geological heritage of the area.</p> <p>32. There should be no disturbance to the freshwater flow from the forest impacting the water table and wetlands.</p> <p>33. The project proponent should support all activities of the forest department in creating awareness to local communities on forest conservation.</p> <p>34. The activities should not result in temperature rise due to increased fossil fuels usage disrupting the behavior of wildlife and flora.</p> <p>35. The activities should support and recognize the rights and roles of indigenous people and local communities and also support sustainable development.</p> <p>36. The project activities should support the use of renewables for carbon capture and carbon storage in the project site and forest surrounds.</p> <p>37. The project activities should not result in changes in forest structure, habitats and genetic diversity within forests.</p> <p>k) Green Belt Development:</p> <p>38. The proponent shall ensure that in the green belt development more indigenous trees species as suggested in Appendix of SEAC Minutes are planted and that the area is restored and rehabilitated with native trees .</p> <p>l) Workers and their protection:</p> <p>39. The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.</p> <p>40. The proponent has to provide insurance protection to the workers and the working hours and wages shall be implemented/enforced as per the Mines Act, 1952 in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.</p> <p>m) Transportation:</p> <p>41. No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and</p>

S. No	EC Conditions
	<p>regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.</p> <p>42. The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p> <p>n) Storage of wastes</p> <p>43. The project proponent shall store/dump the waste generated within the earmarked area of the project site for mine closure as per the approved mining plan.</p> <p>o) CER/EMP:</p> <p>44. The CER should be fully Implemented and fact reflected in the Half-yearly compliance report.</p> <p>45. The EMP shall also be implemented in consultation with local self-government institutions & Govt. departments as indicated in SEAC meeting.</p> <p>p) Directions for Reclamation of mine sites:</p> <p>46. The mining closure plan should strictly adhere to appropriate soil rehabilitation measures to ensure ecological stability of the area. Reclamation/Restoration of the mine site should ensure that the Geotechnical, physical, chemical properties are sustainable that the soil structure composition is buildup, during the process of restoration. The proponent shall ensure that the mine closure plan is followed as per the mining plan and the mine restoration should be done with native species, and site restored to near original status. The proponent shall ensure that the area is ecologically restored to conserve the ecosystems and ensure flow of goods and services.</p> <p>47. A crucial factor for success of reclamation site is to select sustainable species to enable develop a self-sustaining eco system. Species selected should easily establish, grow rapidly, and possess good crown and preferably be native species. Species to be planted in the boundary of project site should be un palatable for cattle's/ goats and should have proven capacity to add leaf-litter to soil and decompose. The species planted should be adaptable to the site conditions. Should be preferably pioneer species, deciduous in nature to allow maximum leaf-litter, have deep root system, fix atmospheric nitrogen and improve soil productivity. Species selected should have the ability to tolerate altered pit and toxicity of and site. They should be capable of meeting requirement of local people in regard to fuel fodder and should be able to attract bird, bees and butterflies. The species should be planted in mixed association.</p> <p>48. Top soil with a mix of beneficial microbes (Bacteria/Fungi) to be used for reclamation of mine spoils. AM Fungi (Arbuscular mycorrhizal fungi), plant growth promoting Rhizo Bacteria and nitrogen fixing bacteria to be utilized. Soil and moisture conservation and water harvesting structures to be used where ever possible for early amelioration and restoration of site. Top soil is most important for successful rehabilitation of mined sites. Topsoil contains majority of seeds and plant propagation, soil microorganism, Organic matter and plant nutrients. Wherever possible the topsoil should be immediately used in the area of the for land form reconstruction, to pre mining conditions.</p> <p>49. Over burdens may be analyzed and tested for soil characteristics and used in the site for revegetation. Wherever possible seeds, rhizome, bulbs, etc., of pioneering spices should be collected, preserved and used in restoring the site. Native grasses seeds may be used as colonizers and soil binders, to prevent erosion and allow diverse self- sustaining plant.</p> <p>50. Reclamation involves planned topographical reconstruction of site. Care to be taken to minimize erosion and runoff. Topsoil should have necessary physical, chemicals, ecological, properties and therefore should be stored with precautions and utilized for reclamation process. Stocked topsoil should be stabilized using grasses to protect from wind. Seeds of various indigenous and local species may be broad casted after topsoil and treated overburden are spread. Alkaline soils, acidic</p>

S. No	EC Conditions
	<p>soils, Saline soils should be suitably treated/amended using green manure, mulches, farmyard manure to increase organic carbon. The efforts should be taken to landscape and use the land post mining. The EMP and mine closure plan should provide adequate budget for re-establishing the site to pre-mining conditions. Effective steps should be taken for utilization of over burden. Mine waste to be used for backfilling, reclamation, restoration, and rehabilitation of the terrain without affecting the drainage and water regimes. The rate of rehabilitation should be similar to rate of mining. Efforts should be taken to aesthetically improve the mine site. Action taken for restoration of the site should be specifically mentioned in the EC compliances.</p>



SEAC STANDAR CONDITION:

- 1) The PP shall inform send the 'Notice of Opening' of the quarry to the Director of Mines Safety, Chennai Region before obtaining the CTO from the TNPCB.
- 2) The proponent shall appoint the statutory competent persons relevant to the proposed quarry size as per the provisions of Mines Act 1952 and Metalliferous Mines Regulations, 1961, as amended from time to time.
- 3) Within a period one month from the execution of lease deed, the PP shall ensure that the persons deployed in the quarry including all the contractual employees/truck drivers shall undergo initial/periodical training in the DGMS approved GVTC situated in Trichy / Salem / Hosur.
- 4) The PP shall construct a garland drain of size, gradient and length around the proposed quarry incorporating garland canal, silt traps, siltation pond and outflow channel connecting to a natural drain should be provided prior to the commencement of mining. Garland drain, silt-traps, siltation ponds and outflow channel should be de-silted periodically and geotagged photographs of the process should be included in the HYCR.
- 5) Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.
- 6) The proponent shall install the 'S3 (or) G2' type of fencing all around the boundary of the proposed working quarry with gates for entry/exit before the commencement of the operation as recommended in the DGMS Circular, 11/1959 and shall furnish the photographs showing the same before obtaining the CTO from TNPCB.
- 7) The Proponent shall submit a conceptual 'Slope Stability Action Plan' incorporating the benches & accessible haul road approved by the concerned AD (Mines) for the proposed quarry to the DEE/TNPCB at the time of obtaining the CTO.
- 8) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are undergoing the initial/periodical medical examination in the DGMS approved OHS Clinics/Hospitals as per the DGMS Circular No. 01 of 2011 before they are engaged in mining activities.
- 9) The PP shall ensure that the persons employed in the quarry whether permanent, temporary or contractual are provided with adequate PPEs before engaged in mining operations.
- 10) Proper barriers to reduce noise level and dust pollution should be established by providing greenbelt along the boundary of the quarrying site and suitable working methodology should be adopted by considering the wind direction.
- 11) The Project Proponent shall ensure that the funds earmarked for environmental protection measures are kept in a separate bank account and should not be diverted for other purposes. Year-wise expenditure should be included in the HYCR.
- 12)The Project Proponent shall send a copy of the EC to the concerned Panchayat/local body.

13) Perennial maintenance of haulage road/village / Panchayat Road shall be done by the project proponent as required, in coordination with the concerned Govt. Authority.

14) Perennial sprinkling arrangements shall be in place on the haulage road for fugitive dust suppression. Fugitive emission measurements should be carried out during the mining operation at regular intervals and submit the consolidated report to TNPCB once in six months.

15) The Proponent shall ensure that the noise level is monitored during mining operation at the project site for all the machineries deployed and adequate noise level reduction measures are undertaken accordingly. The report on the periodic monitoring shall be included in the HYCR.

16) The purpose of green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.

17) Taller/one year old saplings raised in appropriate size of bags (preferably eco-friendly bags) should be planted in proper spacing as per the advice of local forest

authorities/botanist/horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.

18) Noise and Vibration Related: (i) Appropriate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs/muffs, (ii) Noise levels should be monitored regularly (on weekly basis) near the major sources of noise generation within the core zone.

19) The PP shall carry out maximum of only one round of controlled blast per day, restricted to the maximum of 30 to 40 number of holes per round with maintaining maximum charge per delay in such a manner that the blast-induced ground vibration level (Peak Particle Velocity) measured in the houses/structures located at a distance of 500 m shall not exceed 2.0 mm/s and no fly rock shall travel beyond 20 m from the site of blasting.

20) The PP shall also ensure that the blasting operations are not carried out on a 'day after day' basis and a minimum 24 hours break should be observed between blasting days to reduce the environmental impacts effectively.

21) If 'Deep-hole large diameter drilling and blasting' is required, then the PP shall obtain special permission from DGMS.

22) The PP shall ensure that the blasting operations shall be carried out during a prescribed time interval with a prior notice to the habitations situated around the proposed quarry after having posted the sentries/guards adequately to confirm the non-exposure of public within the danger zone of 500 m from the boundary of the quarry. The PP shall use the jack hammer drill machine fitted with the dust extractor for the drilling operations such that the fugitive dust is controlled effectively at the source.

23) The PP shall ensure that the blasting operations are carried out by the blaster/Mine Mate/Mine Foreman employed by him in accordance with the provisions of MMR 1961 and it shall not be carried out by the persons other than the above statutory personnel.

24) The proponent shall undertake in a phased manner restoration, reclamation and rehabilitation of lands affected by the quarrying operations and shall complete this work before the conclusion of such operations as per the Environmental Management Plan & the approved Mine Closure Plan.

25) Ground water quality monitoring should be conducted once in every six months and the report should be submitted to TNPCB.

26) The operation of the quarry should not affect the agricultural activities & water bodies near the project site and a 50 m safety distance from water body should be maintained without carrying any activity. The proponent shall take appropriate measures for "Silt Management" and prepare a SOP for periodical de-siltation indicating the possible silt content and size in case of any agricultural land exists around the quarry.

27) The proponent shall provide sedimentation tank / settling tank with adequate capacity for runoff management.

28) The proponent shall ensure that the transportation of the quarried granite stones shall not cause any hindrance to the Village people/Existing Village Road and shall take adequate safety precautionary measures while the vehicles are passing through the schools / hospital. The Project Proponent shall ensure that the road may not be damaged due to transportation of the quarried granite stones; and transport of granite stones will be as per IRC Guidelines with respect to complying with traffic congestion and density.

29) To ensure safety measures along the boundary of the quarry site, security guards are to be posted during the entire period of the mining operation.

30) The Project Proponent shall comply with the provisions of the Mines Act, 1952, MMR 1961 and Mines Rules 1955 for ensuring safety, health and welfare of the people working in the mines and the surrounding habitans.

31) The project proponent shall ensure that the provisions of the MMDR Act, 1957 & the MCDR 2017 and Tamil Nadu Minor Mineral Concession Rules 1959 are complied by carrying out

the quarrying operations in a skillful, scientific and systematic manner keeping in view proper safety of the labour, structure and the public and public works located in that vicinity of the quarrying area and in a manner to preserve the environment and ecology of the area.

32) The quarrying activity shall be stopped if the entire quantity indicated in the Mining plan is quarried even before the expiry of the quarry lease period and the same shall be informed to

the District AD/DD (Geology and Mining) District Environmental Engineer (TNPCB) and the Director of Mines Safety (DMS), Chennai Region by the proponent without fail.

33) All the conditions imposed by the Assistant/Deputy Director, Geology & Mining, concerned District in the mining plan approval letter and the Precise area communication letter issued by concerned District Collector should be strictly followed.

34) That the grant of this E.C. is issued from the environmental angle only, and does not absolve the project proponent from the other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility, to comply with the conditions laid down in all other laws for the time-being in force, rests with the project proponent.

35) As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF&CC, 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.

36) The mining lease holders shall, after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

37) As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall adhere to the EMP as committed.

SEAC SPECIFIC CONDITION:

- 1) The PP shall **register promptly through online in the Shram Suvidha Portal** which is the official portal of Ministry of Labour & Employment, Govt of India to obtain **Labour Identification Number (LIN) before obtaining the CTO from the TNPCB.**
- 2) The PP shall ensure the safety provisions as stipulated in the DGMS Circular No:02, dated. 29.11.2019 while using the Diamond Wire Saw machines in the proposed quarry operation.
- 3) The PP shall adopt only non-explosive technique (Rock Breaking Compounds) for the fracturing of granite blocks ensuring the eco-friendly mining operation in the proposed quarry.
- 4) To ensure the conditions of occupational safety, health & welfare status of persons working in the mine, the PP shall annually conduct occupational health survey to determine prevalence of Noise Induced Hearing Loss (NIHL) due to the operation of Diamond Wire Saw cutting & other HEMMs deployed in the mine and to prepare a plan for hearing conservation programme by involving anyone of the reputed institutes - Regional Occupational Health Centre (Southern) of ICMR-National Institute of

Occupational Health, Bengaluru, National Institute of Miners' Health, Nagpur and Anna University, Chennai.

- 5) The PP shall properly provide all the required welfare amenities near quarry such as Drinking water, Rest Shelter, Canteen, Toilets, etc for the persons to be employed in the proposed quarry before the execution of lease, in accordance with the provisions of the Mines Rules, 1955.
- 6) For the safety of the persons employed in the quarry, the PP shall carry out the scientific studies to assess the slope stability of the working benches and existing quarry wall during the 4th year or when the depth exceeds 30m whichever is earlier, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. A copy of such scientific study report shall be submitted to the SEIAA, MoEF, TNPCB, AD/Mines-DGM and DMS, Chennai as a part of Environmental Compliance without any deviation.
- 7) The PP shall annually carry out the Anna University-Star Rating process for the sustainable mining which will be awarded by the Department of Mining Engineering Anna University Chennai and Rs. 1 lakhs shall be paid for carrying out the process for the year of 2024-2025 to the Dept of Mining Engg., Anna University Chennai before the execution of the lease.
- 8) The proponent shall revise the **CER** as suggested for an amount of **Rs.7.5 lakh** and shall furnish details on the committed activities including the establishment of **Smart Classroom facility** at Government School, Jagadevipalayam before obtaining CTO from TNPCB.

AFFIDAVIT FURNISHED BY THE PROPONENT

The Proponent has furnished affidavit in stamp paper attested by the Notary stating that I, **E.Jagadeesan S/o.M.Egananthan**, aged about 54 years, having registered office at No.5/50, Thiruvalluvar Nagar, Krishnagiri District, -635001, Tamil Nadu state do hereby solemnly declare and sincerely affirm that,

I have applied for getting environmental clearance to SEIAA Tamil Nadu for quarry lease for Grey Granite, in S.F.No. 353/2A1B, 2A7, 2B, 2C1 & 2E1A, Consent Patta land, over

an extent of 1.56.5Ha of Jegadevipalayam Village, Bargur Taluk, Krishnagiri District and Tamil Nadu.

1. I swear to state that within 10kms radius of the mines which I have applied for environmental clearance, none of the followings are situated as per the General Conditions of EIA Notification, 2006.

- Protected areas notified under the Wildlife (Protection) Act, 1972
- Critically polluted area as identified by CPCB constituted under Water (Prevention and Control of Pollution) Act, 1974
- Eco Sensitive areas identified by the Forest Dept/State Govt
- Interstate boundaries and International boundaries within 10Km Radius.

2. I will complete the following Corporate Environment Responsibility (CER) activities before commencement of the quarrying activities in addition to CSR and EMP.

CER Activity	Project Cost (Rs. In Lakh)	CER Cost 2% of Project Cost (Rs in Lakh)
Developing Sanitary and Library Facilities , Environmental awareness sign board, RO Plant, Smart class facilities and Tree plantation in and around the Government Higher Secondary school in Jagadevipalayam Village	78 lakh	7.5
Total Cost Allocation	78 lakh	7.5 Lakh

EMP COST

S.No	Description	Capital Cost (Rs)	Recurring cost per annum (Rs)	Remarks
1	Compaction, gradation and drainage on both sides(Rs.1500 per hour*20hours)	60,000	20,000	NA
2	Fixed water sprinkling arrangements+ Thrice a day water sprinkling by own tankers		2,00,000 (Rs. 400/trip 2trips/dayx250 days Leaving rainy days)	Using Own Water tanker Which is used in previous years.
3.	Air Quality will be regularly monitored as per norms within ML area & Ambient Area	-	60,000 (twice a year)	NA

4.	Muffle Blasting	-	-	
5.	Wet drilling procedure/latest eco-friendly drilling machine with separate dust extractor unit	25,000 (One venturi pipes with fittings)	3000	NA
6	No overloading of trucks /trucks /tractors (Manual Monitoring Through security Guard)	-	10,000	NA
7.	Stone carrying trucks will be covered by tarpaulin (Monitoring if trucks will be covered by tarpaulin)	-	20,000	NA
8	Enforcing speed limits of 20km/hr within ML lease area (Manual Monitoring Through security Guard)	-	10,000	NA
9.	Regular monitoring of exhausted fumes as per RTO norms	0	10,000	NA
10.	Regular sweeping and maintenance of roads for at least about 200m (provision of Labour @Rs.10,000/ Labour)	0	20,000	NA
11	Installing wheel wash system near gate of quarry	50,000	10,000	NA
12	Source of noise will be during operation of transportation vehicles. HEMM for this proper maintenance will be done at regular intervals.	0	0	Included in operating cost
13	Oiling & greasing of transport vehicles and HEMM at regular interval will be done	0	0	Maintenance cost of production
14	Adequates silence will be provided in all the diesel engines of vehicles.	0	0	NA
15	It will be ensured that all transportation vehicles carry a fitness certificate.	25,000 (1 tipper)	10,000	NA
16	Plantation along periphery of lease area will act as attenuation.	40,000	10,000	NA

		(200 trees)		
17.	Safety tools and implements that are required will be kept adequately near blasting site at the time of charging.	0	0	Covered under production cost
18	Line drilling all along the boundary to reduce the ppv from blasting activity and implementing controlled blasting	0	0	NA
19	Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.(Manual /Mine Mate)	-	-	NA
20	Provision for portable blaster shed	-	-	NA
21	NONEL Blasting will be practiced to control ground vibration and fly rocks @%Rs 5 x MT/Annum	0	-	-
22	Water management (Provision of Garland drainage Rs.10,000 per hectare)	20,000	10,000	NA
23	Waste management	20,000	5,000	NA
24	Bio toilets will be made available outside mine lease on the land of owner itself	1,00,000	20,000	NA
25	Size 6'× 5' with blue background and white letters as men	10,000	1000	NA
26	Workers will be provided with personal protective equipment 's (Provision of 21 kits 3500 to 4000 per person)(21*3500)	73,500	10,000	NA
27	Health check up for workers will be provisioned (1000 per person x 21)	0	21,000	NA
28	First aid facility will be provided (Provision of 6 kits)	0	18,000	NA
29	Mine will have safety precaution sign boards.	10,000	2,000	NA

30	Barbed wire fencing to quarry area will be provisioned	Rs.2,00,000	20,000	NA
31	Closure includes greenbelt development wire fencing drains	Rs 25,000	0	NA
32	Installation of CCTV Cameras in the mine and mine entrance (Camera 6Nos, DVR, Monitor with internet facility)	Rs.30,000	Rs.3000	NA
33	Implementation as per Mining Plan and ensure safe quarry working (Mines Manager (1 st Class/2 nd Class/Mine Foreman) under regulation 34/34 (6) of MMR, 1961 and Mining Mate under regulation 116 of MMR,1961	0	Rs.1,80,000	Salary of permit Manager
34	Green Belt Development (500 trees per hectare- 200 inside, 300- outside) 200 per plant (Capital Cost) 50 for maintenance cost	Rs 1,00,000 (500trees)	Rs .25,000	NA
Total Cost		Rs. 7,38,500	Rs. 6,28,000	

EMP Cost for the Scheme Period = Rs. 47,08,597

EMP Cost for Life of Mine = Rs. 1,65,28,336

3. There are Quarries located within 500m radius from the periphery of our quarry.

i. Existing Quarries

S. No	Name of the Lessee	GO.NO. & Dated	Village & Taluk	S.F.No	Extent (In Ha.)	Lease Period	Last permit obtained
1.	Tvl. Everking Granites, No.1/161, T.N.H.B Phase-II, Krishnagiri.	G.O,(3D) NO.20,IND.(M ME-2) DEPT.DT. 22.03.2018	Jagadevi palayam village, Bargur Taluk.	347/1, 347/2, 347/4, 347/5, 347/6B1, 3476C, 347/6D1	3.19.50	28.05.2018 TO 27.05.2038	13.10.2022

2	Thiru.E.Jagadeesan,S/O.Egananthan,No.5/50, Thiruvallur Nagar,Krishnagiri	G.O,(3D)NO.42, IND.(MME-2). DEPT.DT. 29.09.2018	Jagadevi palayam village, Bargur Taluk.	353/2A1B, 2A7, 2B, 2C1 & 2E1A	1.56.50	09.11.2018 TO 08.11.2038 Instant proposal (applied 1st scheme of mining)	16.09.2022
3	Tvl.M.P Granite, No;131/29, R.R Complex, Kollapatti, Animoor Post, Tiruchengode.	G.O,(3D) NO.07,IND. (MME-2). DEPT. DT.18.01.2016	Jagadevi palayam village, Bargur Taluk.	266/1, 266/1AC, 268/1AD	1.85.50	03.02.2016 TO 02.02.2036	08.12.2017
4	M.P.Mining and Leasing Company, No.2/226, Karisalkulam Road, Vakkanangundu, Kariyapatti, Virudhunagar.	G.O,(3D)NO.72, IND.(MME-2). DEPT.DT.01.12. 2016	Jagadevi palayam village, Bargur Taluk.	268/1Y, 268/1Z, 268/2K, 268/1AB.	1.84.00	10.02.2017 TO 09.02.2037	18.03.2020
5	S.S.Jameleddin, S/O.S.S. Salaluddin, No.449/1, New Housing Board, Ii Phase, Krishnagiri.	G.O,(3D)NO.17, IND.(MME-2). DEPT.DT.008.0 4.2008.	Jagadevi palayam village, Bargur Taluk.	372/3A.	1.25.00	22.12.2008 TO 21.12.2028	06.09.2018

ii. Abandoned or Expired Quarries

S.No	Name of the owner	GO.NO.& Dated	Village	S.F .No	Extent (In Ha.)	Lease Period
-	-----Nil-----					

iii. Present Proposed Quarries

S.No	Name of the owner	GO.NO. & Dated	Village	S.F .No	Extent (In Ha.)	Lease Period
-	-----Nil-----					

1. There will not be any hindrance or disturbance to the people living on enroute / nearby my quarry site while transporting the mined out materials and due to quarrying activities.

2. There are no habitations / villages located within 300 meters radius from the periphery of my quarry.
3. I swear that afforestation will be carried out during the course of quarrying operation and maintained.
4. The required insurance will be taken in the name of the labourers working in my proposed quarry.
5. The existing road from the main road to the quarry is in good condition and the same will be maintained and utilized for transportation of granite.
6. I will not engaging any child labour at my mines and I aware that engaging child labour is punishable under the Law.
7. All types of safety/protective equipments will be provided to all the laborers working in my quarry.
8. No permanent structures, temples etc are located within 500 m from the periphery of my quarry.
9. The quarrying activity has not yet commenced and it will be carried out only after obtaining environmental clearance.

DETAILS OF QUARRIES LOCATED WITHIN 500M RADIUS FROM THE PROPOSED QUARRY:

The Project Proponent has submitted a copy of the letter obtained from the Deputy Director, Department of Geology and Mining, Krishnagiri District in his letter Roc.No.1201/2022/Mines, dt: 28.10.2022 has stated that the details of other quarries within a radius 500m from the boundary of the proposed quarry site as follows:

i. Existing Quarries

S. No	Name of the Lessee	GO.NO. & Dated	Village & Taluk	S.F.No	Extent (In Ha.)	Lease Period	Last permit obtained
1.	Tvl. Everking Granites, No.1/161, T.N.H.B Phase-II, Krishnagiri.	G.O,(3D) NO.20,IND.(MM E-2) DEPT.DT. 22.03.2018	Jagadevi palayam village, Bargur Taluk.	347/1, 347/2, 347/4, 347/5, 347/6B1, 3476C, 347/6D1	3.19.50	28.05.2018 TO 27.05.2038	13.10.2022

2	Thiru.E.Jagadeesan,S/O.Eganathan, No.5/50, Thiruvallur Nagar,Krishnagiri	G.O,(3D)NO.42,IND.(MME-2). DEPT.DT. 29.09.2018	Jagadevi palayam village, Bargur Taluk.	353/2A1B, 2A7, 2B, 2C1 & 2E1A	1.56.50	09.11.2018 TO 08.11.2038 Instant proposal (applied 1st scheme of mining)	16.09.2022
3	Tvl.M.P Granite, No;131/29, R.R Complex, Kollapatti, Animoor Post, Tiruchengode.	G.O,(3D) NO.07,IND. (MME-2). DEPT. DT.18.01.2016	Jagadevi palayam village, Bargur Taluk.	266/1, 266/1AC, 268/1AD	1.85.50	03.02.2016 TO 02.02.2036	08.12.2017
4	M.P.Mining and Leasing Company, No.2/226, Karisalkulam Road, Vakkanangundu, Kariyapatti, Virudhunagar.	G.O,(3D)NO.72,IND.(MME-2). DEPT.DT.01.12.2016	Jagadevi palayam village, Bargur Taluk.	268/1Y, 268/1Z, 268/2K, 268/1AB.	1.84.00	10.02.2017 TO 09.02.2037	18.03.2020
5	S.S.Jameeledin, S/O.S.S. Salaluddin, No.449/1, New Housing Board, Ii Phase, Krishnagiri.	G.O,(3D)NO.17,IND.(MME-2). DEPT.DT.008.04. 2008.	Jagadevi palayam village, Bargur Taluk.	372/3A.	1.25.00	22.12.2008 TO 21.12.2028	06.09.2018

ii. Abandoned or Expired Quarries

S.No	Name of the owner	GO.NO.& Dated	Village	S.F .No	Extent (In Ha.)	Lease Period
-	-----Nil-----					

iii. Present Proposed Quarries

S.No	Name of the owner	GO.NO. & Dated	Village	S.F .No	Extent (In Ha.)	Lease Period
-	-----Nil-----					