

Proceedings of the District Environment Impact Assessment Authority (DEIAA)

KOLLAM

(Present : Dr. S.Karthikeyan, IAS, Chairman, DEIAA & District Collector, Kollam ; Dr. Chithra.S IAS, Member Secretary , DEIAA & Sub Collector, Kollam, Sri. I. Sidheeq IFS, DFO, Punalur and Member DEIAA, Dr. Sainudeen Pattazhy , Member, DEIAA and Asso. Professor, SN College, Kollam.)

Environmental Clearance Certificate.

B/DEIAA/11910/18

Date: -24.09.2018

- Sub: DEIAA - Kollam - Environmental Clearance for Granite building stone quarry orders issued.
- Ref: 1. Minutes of the Meetings of DEIAA held on 22.09..2018 in the chamber of the District Collector, Kollam.
2. Minutes of the Meeting of DEAC held on 19.07.2018
3. Application submitted by Shri. L.Saiju, Managing Director, M/s Akkavila Sajeenan Aggregates, Thrikkovilvattom.

Shri. L.Saiju, Managing Director, M/s Akkavila Sajeenan Aggregates, Thrikkovilvattom filed, an application for environmental clearance for granite building stone quarry in Re Survey Nos. 474/4, 474/16, 474/17, 474/5, 474/18, 474/6, 474/21, 474/20, 474/7, 474/24, 474/10, 476/8, 476/7, 476/6, 476/4, 475/23, 475/24, 475/9-1, 476/17, 474/19 and 476/20 in Block No. 30 Veliyam Village, Kottarakkara Taluk. Kollam District. The total extent of the land is 3.0685 hectares and the extent of applied area is 2.6491 hectares. The area of land arrives from Re Survey Nos. 474/4, 474/16, 474/17, 474/5, 474/18, 474/6, 474/21, 474/20, 474/7, 474/24, 474/10, 476/8, 476/7, 476/6, 476/4, 475/23, 475/24, 475/9-1, 476/17, 474/19 and 476/20 are 0.4305 hectares, 0.0525 hectares, 0.0850 hectares, 0.0720 hectares, 0.0940 hectares, 0.0955 hectares, 0.1515 hectares, 0.0325 hectares, 0.2665 hectares, 0.1860 hectares 0.1135 hectares, 0.1670 hectares, 0.0100 hectares, 0.0221 hectares, 0.1657 hectares, 0.2020 hectares, 0.1920 hectares, 0.1572 hectares, 0.0370 hectares, 0.1100 hectares and 0.0066 hectares respectively. The proposed area includes mineable area 02.0458 hectares and buffer zone 0.6033 hectares.

As per the Thandapper Account No. 8832, 8890, 8752 , 8889 and 8452 of Veliyam village the proposed land is owned by the projet proponent.

After preliminary verification, the application was forwarded to DEAC. The DEAC members inspected proposed site on 05.07.2018 and reported that the area falls within latitudes 8°54'50.20"N and 8°54'57.63" N and longitudes 76°46'17.94"E and 76° 46' 24.40" E.

DEAC has reported that the proposed area is a part of a hillock with a North -- East / South -- West trend slopping towards North West direction. The north western side of the applied area has been under quarrying activities for the past years.

DEAC has reported that the total mineable reserves of granite building stone available in the proposed area is 14,82,300 metric tonnes. The tentative production for one year is given as 1,48,000 metric tonnes. The District Expert Appraisal Committee has recommended that life of the mine is 10 years as per the mining plan.

The amount provided by the proponent for Corporate Social Responsibility is Rs. 10,00,000/- per annum.

The meeting of DEAC held on 19.07.2018 had recommended the issuance of environmental clearance for the proposed quarry project. The DEAC has also reported that KIP canal and a bridge is situated near the proposed quarry. The project proponent had submitted an affidavit stating that he will rectify any defect caused to the Canal and bridge due to the quarrying activities or transportation of the mined mineral.

The meeting of DEIAA held on 23.09.2018 in the chamber of the District Collector, Kollam decided to issue environmental clearance for granite building stone quarry in the 2.6491 hectares of land out of the 3.0685 hectares that includes mineable area 02.0458 hectares and buffer zone 0.6033 hectares comprised in Re Survey Nos. 474/4, 474/16, 474/17, 474/5, 474/18, 474/6, 474/21, 474/20, 474/7, 474/24, 474/10, 476/8, 476/7, 476/6, 476/4, 475/23, 475/24, 475/9-1, 476/17, 474/19 and 476/20 in Block No. 30 Veliyam Village, Kottarakkara Taluk. Kollam District for a period of **five years** subject to the following conditions.

CONDITIONS

1. Mining operations should be carried out strictly as per the approved mining plan.
2. The project proponent should provide proper fencing around the quarry throughout the life of the mine.
3. **While issuing quarrying permit on the basis of this environmental clearance, the Geologist should ensure that no LC arrears are pending against the project proponent and the land owner.**
4. The project proponent should clearly demarcate the Government land adjacent to the proposed area and no quarrying activities should be done in the area.
5. The ultimate depth of quarrying should be limited to 90 m above mean sea level.

6. The proponent shall undertake maintenance of roads damaged by heavy loaded trucks.
7. Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified.
8. The project proponent should rectify any defect caused to the nearby KIP canal and bridge due to the quarrying activities and transportation of the mineral. If any defect occurs or any complaint from the authorities arises this Environmental Clearance Certificate will be revoked after due enquiries.
9. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
10. Sprinklers shall be installed and used in the project site to prevent dust emissions.
11. Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
12. At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco-friendly, if no other specific condition on reclamation of pit is stipulated in the EC.
13. Corporate Social Responsibility (CSR) agreed upon by the proponent shall be complied with.
14. The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stones, markings etc) shall be provided at all times and shall be conspicuous.
15. Warning alarms including the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
16. Control measures on noise and vibration prescribed by KSPCB should be implemented.
17. Quarrying activities should be limited to day time as per KSPCB guidelines
18. Blasting should be done in a controlled manner as specified by the regulations of Explosive Department or any other concerned agency.
19. A licensed person should supervise/control the blasting operations.
20. Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
21. Overburden materials should be managed within the site and used for reclamation of mine pit as per mine closure plan/specific conditions. No wet lands, paddy lands or water bodies shall be filled .
22. Height of benches should not exceed 5m, and width should not be less than 5m, if there is no mention in the mining plan/specific condition.
23. Mats to reduce fly rock blast to a maximum of 10PPV should be provided.
24. Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.
25. The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
26. Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.

27. The transportation of minerals should be done in covered trucks to contain dust emissions.
28. The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
29. Disposal of spent oil from diesel engines should be as specified under relevant rules/regulations.
30. Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.
31. A minimum buffer distance of 50 m from the boundary of the quarry to the nearest dwelling unit or other structures not being any facility for mining shall be provided.
32. 50 m buffer distance should be maintained from forest boundaries.
33. Consent from Kerala State Pollution Control Board under Water and Air Act (s) should be obtained before initiating mining activity.
34. All other statutory clearance should be obtained, as applicable, by project proponent from the respective competent authorities including that for blasting and storage of Explosive.
35. The authority reserves the right to add the additional safe guard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the environment (protection Act) 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.
36. The stipulations by Statutory Authorities under different acts and notifications should be complied with, including the provisions of water (Prevention and control of pollution) Act, 1974, the air (prevention and Control of Pollution) Act 1991 and EIA notification, 2006.
37. The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and newspapers) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.
38. A copy of the clearance letter shall be sent by the proponent in the concerned Grama Panchayat/District Panchayat/ Municipality/ Corporation/Urban Local Body also to the NGO, if any from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.
39. The proponent shall submit half yearly reports complaints of the stipulated EC conditions including results of monitored data both in hard copies as well as by e.mail) and upload the status of compliance of the stipulated EC conditions including results of monitored data on their website and shall update the same periodically. Each shall simultaneously be sent to the respective Regional Office of MoEI. Government of India also of the State Environment Impact Assessment Authority (SEIAA) office.

40. The details of Environment Clearance should be prominently displayed in a metallic board of 3ft x 3ft with green background and yellow letters of Times New Roman Font of size of not less than 40 . Sign board with extent of lease area and boundaries shall be depicted at the entrance of the quarry, visible to the public.
41. The proponent should provide notarized affidavit indicating the number and date of Environmental Clearance proceedings that all the conditions stipulated in the EC shall be scrupulously followed.
42. No change in mining technology and scope of working should be made without prior approval of the DEIAA. No further expansion or modifications in the mine shall be carried out without prior approval of the DEIAA as applicable.
43. The project proponent shall ensure that no natural water course and / or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.
44. Monitoring of Ambient air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places of loading and unloading points & transfer point to reduce fugitive dust emissions.
45. The top soil, if any, shall temporarily be stored at the places for the topsoil shall be 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 maximum height of the dumps shall not exceed 8 meter and width 20 meter and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management or rehabilitated areas should continue until the vegetation becomes self-sustaining.
46. Catch drains and siltation ponds of appropriate size shall be constructed around the mine working mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area roads, green belt development etc. The drains shall be regularly desalted particularly after monsoon and maintained properly.
47. Dust emissions from all the sources should be controlled regularly; Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained.
48. Measures should be taken for control of noise levels below 87dB in the work environment.
49. A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive who will report directly to the Head of the Organization.
50. The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the District Environment Impact Assessment Authority (DEIAA) Office.

51. The Regional Office of MOEF & CC located at Bangalore shall mention 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.
52. Any appeal against this Environmental Clearance shall be with the National Green Tribunal, if preferred with a period of 30 days are prescribed under section 16 of the National Green Tribunal Act, 2010.
53. The DEIAA may revoke or suspend the order, for non implementation of any of the specific conditions or this implementation of any of the above conditions is not satisfactory. The DEIAA reserves the right to alter/modify the above conditions or stipulate any further conditions in the interest of environment protection.
54. The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.
55. This order is valid for a period of five years or the expiry of mine lease period issued by the Government of Kerala, whichever is earlier.
56. The Environmental Clearance will be subject to the final order of the courts in any pending litigation related to the land or project, in any court of law.
57. The mining operation shall be restricted to above ground water table and it should not interest ground water table.
58. All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution monitoring centre. Washing of all vehicles shall be inside the lease area.
59. Project proponent should obtain necessary prior permission of the competent authorities for drawal of requisite quantity of surface water and ground water for the project.
60. Occupational health surveillance programme of the workers should be under taken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.
61. The guidelines, orders, laws, rules and regulations of the Ministry of Environment and Forests, GoI, of the Government of Kerala and of the State Environment Impact Assessment Authority shall be strictly followed.

Violation of any of the above conditions will entail cancellation of the Environment Clearance in addition to legal action under the provisions of the Environment Protection Act 1986.

Non-compliance if any shall be reported to the District Collector and Chairman of DEIAA by the officers concerned.

(Sd/-)

Member Secretary DEIAA &
Sub Collector, Kollam

To

✓ Shri. L.Saiju, Managing Director, M/s Akkavila Sajeenan Aggregates,

Thrikkovilvattom.

Copy to

1. Chairman, DEIAA & District Collector, Kollam.
2. DFO, Punalur & Member DEIAA
3. Dr. Sainudeen Pattazhy, Member DEIAA
4. Geologist, Kollam
5. All members of DEAC
6. Tahsildar, Kottarakkara
7. Secretary, Veliyam Grama Panchayath.
8. SHO, Pooyappally
9. Village Officer, Veliyam
10. Stock file.

Forwarded by Order



Junior Superintendent