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Validity expires on 14-12-2020

**Proceedings of the State Environment Impact Assessment Authority
Kerala**

*Present: Prof. (Dr.) K.P. Joy, Chairman, Dr. J. Subhashini, Member, Sri. P. Mara Pandiyan I.A.S., Member
Secretary*

Sub: SEIAA- Environmental Clearance for the proposed quarry project in Sy. Nos. 523/1part, 571/1Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District, by M/s Nellikkunnu Granite & Crushers Pvt. Ltd.-
Granted. Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No. 539/SEIAA/EC4/3882/2014

dated, Thiruvananthapuram 15-12-2015

- Read:* 1. Application dated 31-7-2014 submitted by Sri. Hameed Cheuveri, Managing Director, M/s Nellikkunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513
2. Minutes of the 41st meeting of SEAC held on 16/17-6-2015.
3. Minutes of the 45th meeting of SEAC held on 11/12-9-2015.
4. Minutes of the 43rd meeting of SEIAA held on 16-10-2015.

Environmental Clearance No. 109/2015

Sri. Hameed Cheruveri, Managing Director, M/s Nellikkunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513 vide his application received on 13.08.2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 523/1 part, 571/1Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District, Kerala for an area of 07.8991 hectares. The project comes under Category B, Activity 1(a), (i) as per the Schedule of EIA Notification 2006 (since it is below 50 hectares) and as per O.M. No. L-11011/47/2011-IA.II (M) dated 18th May 2012 of Ministry of Environment and Forests. It is further categorized as Category B2 as per the O.M. No. J-13012/12/2013-IA-II (I) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares.

2. The proposed project site falls within 11° 39'03.17" N to 11° 38'53.42" N and 75° 49' 42.25" E to 75° 49' 25.16" E. The land use classification as per revenue records is rocky land with private own land. The present land use is rocky land with quarrying activities. The current proposal is for the existing quarry with pit area of 0.6070 hectares and mineral specific. Hence no alternate site was examined. Forest land is not involved in the project.

DESPATCHED

Date: 28/01/16

Janaki Reserve forest is at a distance of 4Km SW from the proposed quarry project. The proposed project is for quarrying of 3,50,000 MTA of building stone from an area of 7.8991 hectares of land. The quarry is interlinked with crusher unit being constructed within the complex. The expected life of mine will be 25 years. The proposed project activity involves about 87% of the pit area for exploring building stone. At the end of life of mine, excavated pit will be backfilled and reclaimed and rehabilitated by plantation with native species leaving no void. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanized method. The bench height and width proposed is 5 m. The exploitation of mineral is being done from 171 m MSL to 71 m MSL in conceptual phase. The ultimate depth of the mine workings is estimated to be 110 m MSL. The sludge generated from the septic tank will be dried and used as manure in plantation. There will be fugitive emissions generated during material handling, transportation, loading, unloading, etc. that are proposed to be managed by regular water sprinkling on haul road, green belt development, avoiding overloading of vehicles, maintaining the speed of vehicles within prescribed limits and covering the load with tarpaulin sheets. Plantation with shrubs, herbs and trees will be done as part of eco-restoration work. Anticipating 50 % growth rate, at the end of life of mine, about 7,500 trees will be grown in total area of 7.8991 hectares. As per the biodiversity listing provided by the proponent, there is no flora species and fauna species existing at site which are in the red listed category or Schedule-1 species. The loss of native species and vegetation due to mining will be planted at the end use for eco-restoration. The area selected is such that there is enough depth of top soil and overburden and the quarrying in this area is not proposed in future. The endemic species of plants (smaller size) identified in the proposed quarry area would be transplanted in this reserved area. Kuttiyadi River is at a distance of 4 km S, Peruvannamoozhi Dam is 5.5 km S & Kadanthrapuzha is 0.5 km from the project site. Electrical high tension and low tension line is at a distance of 500 m and no Mobile tower within the area. Other details of the case are as under:

<i>Details of project cost</i>	4.22 Crores
<i>Environmental parameters considered</i>	
WATER	
Water requirement & sources	The total water requirement is about 16KLD (Domestic – 2 KLD, Dust suppression-12KLD, Plantation purposes-2KLD). The source of water is from open well and storm water pond
Facilities for liquid waste treatment	The sewage of 1.6 KLD generated from the mine office will be diverted to the septic tank followed by soak pit.
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	The run off from the lease area will be collected through channels and will be stored in storm water pond for further utilization in Mine/crusher units. No other changes in the natural drainage system of the surrounding area
Water quality meeting requirements	Not applicable
Does it have provisions for use of recycled water	No

LAND	
Proximity to forest lands	No
Access road to the site – Width & Condition	6 m tarred road, SE
Storage of explosives /hazardous substances	Explosives will be stored as per Explosives Act/Rules.
Facility for solid waste management	Top soil will be generated from the proposed pit, which will be properly stacked separately at pre-determined place and will be utilized for plantation over the reclaimed areas. The generated overburden will be utilized in developing internal haul roads and at the end use the same will be used as soil base for reclamation. The municipal solid waste generated from the labour quarter will be suitably disposed along with reclamation or back filling.
Proneness of the area for landslides	No
Significant land disturbance resulting in erosion, subsidence & instability	No
Top soil, overburden etc.	Top soil – 59,243 m ³ Overburden – 39,495 m ³
AIR	
Likely emissions affecting environment	Not Applicable
ENERGY	
Energy requirement	75 kW
Extent of usage of alternative energy resources	No
BIODIVERSITY	
Loss of native species and genetic diversity	Due to the mining activities, there will be loss of some native species and vegetation. However, some of these will be planted at the end use for eco-restoration.
Any introduction of alien / invasive species	Not applicable
SOCIAL ASPECTS	
Proximity to nearest habitation	127 m, SW
CSR related to the project / allocation / time frame (details mandatory)	CSR allocated for education, community development and health
GENERAL	
Litigation/court cases, if any, against the project (Provide details)	No
Does it have eco restoration programmes	The year wise programme of eco-restoration for the life of mine, about 7500 trees will be planted in an area of 7.8991 Ha. Biological reclamation. Ecological reclamation/ ecological restoration for the mined area by plantation of the species.
Right & nature of ownership of land	Private Own land
Is the property forest land/govt. land/own land	Private Own land

Details of Authorised Signatory	Sri. Hameed Cheruveri, Managing Director, M/s Nellikunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., KavilumPara Via, Vatakara Taluk, Kozhikode-673513
Details of NABET approved EIA consultant organisation	M/s Enkay Enviro Services Pvt. Ltd. 24-B, Dadu Marg Gopal Bari, Ajmer Road Jaipur, Rajasthan-302001. Tel. No: 0141-4013996/4023996/4016996; Fax; 0141-4026996; Email: info@enkayenviro.com

3. The proposal was placed in the 41st meeting of SEAC held on 16th and 17th June 2015. The Committee found that this is an existing quarry and a crusher unit is associated with the project. Out of the 17 ha land, EC is applied for 7.8991 ha. The lowest elevation is 71 m above MSL and highest elevation 171 m above MSL. The Committee observed that Janaki Reserve Forest is at a distance of 4 Km from the proposed area. The water requirement for the project is 16 KLD. The Committee decided to defer the item for site visit. As per the decision taken by 41st SEAC, field visit was carried out by the sub-committee of SEAC on 30-07-2015. The major observations are as under:

It is an existing active quarry with a crusher unit associated with it. Over burden is found stored separately in eastern part of the lower slope area where tree planting is possible. Open cast semi mechanized method was practiced earlier but now modern method with benching is adopted. The drainage from the quarry is collected in an artificial pit for desiltation and clearing. Vegetation is seen around the quarry with common local plants which are having status of Least Concern. Proponents had planted some tree species like Mahogany, Odina, teak etc. Even though the proponents own 17 ha of land, 7.89 ha is proposed for quarrying. Janaki Reserve Forest is 4 km away from the quarry which is a safer distance. No houses or settlements are noticed in the nearby area. Crusher unit is found encased. Conditions to be added:

1. Quarrying should be strictly limited to 7.9 ha as proposed.
2. Proper fencing and sign boards must be fixed all around
3. The approach road is properly maintained. Entry of large vehicles may be restricted.
4. Retaining wall should be maintained at the lower slope to avoid leaching.

4. The proposal along with the field visit report was again placed in the 45th meeting of SEAC held on 11th and 12th September 2015. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report, field inspection report and all other documents submitted along with the Form I application and decided to recommend for issuance of Environmental Clearance with the following specific conditions, in addition to the general conditions stipulated for mining projects.

1. Proper fencing and sign boards must be fixed all around.

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2. Entry of large vehicles may be restricted to the approach road.
 3. Retaining wall should be maintained at the lower slope to avoid leaching.
 4. To the extent possible local biodiversity management Committee shall be involved in the environmental management/restoration activities.
 5. Reclamation and eco-restoration of quarry site should be done by planting native species.

5. The proposal was placed in the 43rd meeting of SEIAA held on 16th October 2015. Authority noted that around 59,243 m³ of top soil will be generated from the proposed pit, which need to be properly stacked separately at pre-determined place to be utilized for plantation over the reclaimed areas. Around 39,495 m³ of overburden will be generated, to be utilized in developing internal haul roads and at the end, the same will be used as soil base for reclamation. The top soil and overburden shall be stacked so as to avoid sliding and accidents. It was decided to give E.C. to the project subject to the specific conditions mentioned in para 4 above, and the general conditions on mining projects. The documents called for having been submitted and on being satisfied that there are no other quarry in operation within 500 meters of this quarry, and there is no notified protected areas, wild Life sanctuaries, or Ecologically Sensitive Areas within 200 meters from the periphery of the mining area and there is proper undertaking that the committed CSR activities will be implemented the State Environmental Impact Assessment Authority, Kerala hereby accord environmental clearance under the EIA notification 2006, for the quarry project of Sri. Hameed Cheruveri, Managing Director, M/s Nellikunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513 from 07.8991 hectares of private land in Sy. Nos. 523/1 Part, 571/1 Part & 567 Part at Maruthonkara Village & Panchayath, Vatakara Taluk, Kozhikode District.

6. The clearance issued will also be subject to full and effective implementation of all the undertakings given in the application form, mitigation measures as assured in the Environment Management Plan, (pages 30 to 56) and the mining features including progressive mine closure plan as submitted with the application and relied on for grant of this clearance. The above undertakings and the conditions and undertakings in chapter 4(Mining), Chapter 5 (Blasting), Chapter 6 (Mine Drainage), Chapter 7 (stacking of mineral rejects and disposal of wastes) Chapter 11 (EMP) of the Mining Plan and the entire Progressive Mine Closure Plan as submitted will be deemed to be part of these proceedings as conditions as undertaken by the proponent, as if incorporated herein.

7. Validity of the environmental clearance will be five years form the date of this clearance, subject to earlier review in the event of violation or non- compliance of any of the conditions stipulated herein.

8. Compliance of the conditions herein will be monitored by the Directorate of Environment and Climate Change or its agencies and also by the regional office of the Ministry of Environment & Forests, Govt. of India, Bangalore.

i) Necessary assistance for entry and inspection should be provided by the project proponent and those who are engaged or entrusted by him to the staff for inspection or monitoring.

ii) Instances of violation if any shall be reported to the District collector, Kozhikode to take legal action under the Environment (Protection) Act 1986.

iii) The given address for correspondence with the authorised signatory of the project is Sri. Hameed Cheruveri, Managing Director, M/s Nellikunnu Granite & Crusher Pvt. Ltd., Vannathichira P.O., Kavilumpara Via, Vatakara Taluk, Kozhikode-673513.

Sd/-

P. MARA PANDIYAN, I.A.S.,
Member Secretary (SEIAA)

&

Addl. Chief Secretary
Environment & Forests Department
Government of Kerala.

To,

✓ Sri. Hameed Cheruveri,
Managing Director,
M/s Nellikunnu Granite & Crusher Pvt. Ltd.,
Vannathichira P.O.,
Kavilumpara Via, Vatakara Taluk,
Kozhikode-673513.

Copy to:

- ✓ 1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E& F Wing, Iblock, Koramangala, Bangalore-560034.
- ✓ 2. Addl. Chief Secretary to Government, Environment Department
- ✓ 3. The District Collector, Kozhikode
- ✓ 4. The Director, Department of Environment & Climate Change
- ✓ 5. The Director, Mining and Geology Department, Govt. of Kerala
- ✓ 6. The Secretary, Maruthonkara Grama Panchayat, Maruthonkara P.O., Kavilumpara Via, Kozhikode-673513
- ✓ 7. Chairman, SEIAA
- ✓ 8. Website
- ✓ 9. Stock File
- ✓ 10. O/C.

Forwarded/By Order

Administrator, SEIAA



STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including of approach road and internal roads.
- (iv) Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (vii) 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.
- (viii) Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented
- (ix) The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mine
- (x) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xi) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiii) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xiv) A licensed person should supervise/ control the blasting operations.
- (xv) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvi) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xvii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xviii) Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.
- (xix) Maximum depth of mining from general ground level at site shall not exceed 10m
- (xx) No mining operations should be carried out at places having a slope greater than 45°.
- (xxi) 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.
- (xxii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiii) Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.
- (xxiv) The transportation of minerals should be done in covered trucks to contain dust emissions.
- (xxv) The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.
- (xxvi) Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.
- (xxvii) Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department.
- (xxviii) A minimum buffer distance of 100m from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided
- (xxix) 200 m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating activity.
- (xxxi) All other statutory clearances should be obtained, as applicable, by project proponents from the respective

competent authorities including that for blasting and storage of explosives.

- (xxxii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxxiii) The Authority reserves the right to add additional safeguard 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.
- (xxxiv) 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, 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.
- (xxxv) The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the Department of Environment and Climate Change, Govt. of Kerala 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.
- (xxxvi) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body and also to the Local 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.
- (xxxvii) The proponent shall submit half yearly reports on the status of compliance 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. It shall simultaneously be sent to the respective Regional Office of MoEF, Govt. of India and also to the Directorate of Environment and Climate Change, Govt. of Kerala.
- (xxxviii) The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft 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
- (xxxix) 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.
- (xl) The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license or consent given by any other authority for the same project

