



सत्यमेव जयते

Proceedings of the State Environment Impact Assessment Authority Kerala

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

Sub: SEIAA- Environmental Clearance for the building stone quarry project in Sy. No.- 83 (p) at Kumaranellur Village, Kozhikode Taluk, Kozhikode District, by M/s Ponoorpoyil Granites - Granted . Orders issued.

STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY

No.442/SEIAA/EC4/3034/2014

dated, Thiruvananthapuram 10-8-2015

- Read:-**
1. Application dated 26-5-2014 submitted by Sri. Ajas M.M., Managing Partner, M/s Ponoorpoyil Granites, Maranchatty, Koodaranhi P.O.Kozhikode - 673604
 2. Minutes of the 33rd meeting of SEAC held on 2/3-9-2014.
 3. Minutes of the 36th meeting of SEAC held on 31-10-2014.
 4. Minutes of the 36th meeting of SEIAA held on 18-4-2015.
 5. Minutes of the 39th meeting of SEAC held on 14/15-5-2015
 6. Minutes of the 39th meeting of SEIAA held on 18-6-2015.

Environmental Clearance No. 61

Sri. Ajas M.M., Managing Partner M/s Ponoorpoyil Granites, Koodaranhi P.O., Kozhikode District - 673604 vide his application received on 26.06.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey No. 83 (p) at Kumaranellur Village, Kozhikode Taluk, Kozhikode District, in 4.6558 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) dt. 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 25 hectares. The proposed project site falls within 11°18'40.98" N to 11°18'49.62" N and 76°03'23.01" E to 76°03'33.22" E. The land use classification as per revenue records is rocky land with private land. Out of the total 10.9567 hectares of overall area, the lease area consists of 4.6558 hectares, which is private land and the present land use is rocky

land with quarrying activities. The current proposal is for the existing quarry and mineral specific. Hence no alternate site was examined. Forest land is not involved in the project.

2. The proposed project is for quarrying of 1,80,000 MTA of building stone from an area of 4.6558 hectares of land. The expected life of mine will be 10 years. The proposed project activity involves about 89 % of the pit area for exploring building stone. At the end of life of mine, the excavated pit will be backfilled and reclaimed and rehabilitated by plantation 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 135 m MSL to 55 m MSL in conceptual phase. The ultimate depth of the mine workings is estimated to be 55 m MSL. Around 32,591 m³ of top soil will be generated from the proposed pit, which will be properly stacked and will be utilized for plantation over the reclaimed areas. Around 13,967 m³ of overburden is generated which will be utilized in developing internal roads and at the end use the same will be used as soil base for reclamation. The sewage of 0.8 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. The municipal solid waste generated from the labour quarter will be disposed along with reclamation or back filling. The sludge generated from the septic tank will be dried and used as manure in plantation. The daily water demand of 16 KLD will be met from well/storm water collection pond. The total power requirement of 75 kW will be drawn from diesel engine. 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 4500 trees will be grown in an area of 4.5658 hectares. An area equivalent to 20 percent of the area proposed for quarrying is reserved in the area owned by the project proponent outside the proposed quarry for compensatory mass plantation. In the instant case, it is proposed to have compensatory mass plantation in an area of 0.93 hectares. The area selected is such that there is enough depth of top soil and the quarrying in this area is not proposed in future. Chaliyar River is at a distance of about 10 km SW of the project site. The nearest house is located at 151 m NE from the proposed quarry. The quarry is interlinked with a crusher unit located within the complex. As stated by the proponent, there is no litigation pending against the lease area / applicant of the lease area in any court of law. Other details of the case are as under:

BASIC INFORMATION OF THE PROJECT

Name of project	M/s Ponoorpyil Granites
<i>Brief description of the project</i>	Quarry project with an area of 4.6558 ha. & production capacity of 1,80,000 MTA
<i>Category/Subcategory & Schedule</i>	Category B/B2 & Schedule I (a)

Location Syno/ district, Taluk/ village etc.		Sy. No. 83 (p), Kurnaranellur Village, Karassery Panchayat, Kozhikode Taluk, Kozhikode District, Kerala.	
GPS co-ordinates		Latitude (N)	11°18'49.62" to 11°18'40.98"
		Longitude (E)	76°03'33.22" to 76°03'23.01"
for Mining projects	Extent of area (in hectares)	4.6558 ha.	
	Minimum and maximum height of excavation (MSL)	55 m. MSL and 135 m. MSL	
	Life of mine proposed	10 years	
	Ultimate depth of mining (in MSL)	55 m. MSL	
	Distance from the adjacent quarry	Margiri Quarry, 1.5 km., E	
	Capacity of production	1,80,000 MTA	
	Env't Mgmt plan/ Eco restoration plan (brief details)	At the end of life of mine, excavated pit will be backfilled and reclaimed & rehabilitated by plantation with native species so as to restore the natural eco-system.	
ABOUT THE PROJECT			
Environmental Parameters Considered			
WATER			
	Water requirement & sources	The total water requirement is about 16 KLD in which 1 KLD is for domestic which would be sourced from open well, 12 KLD for dust suppression system in mine as well as ancillary unit (M Sand & Crusher Unit) and 3 KLD for plantation purposes and will be sourced from storm water pond. The source of water is from storm water pond / well.	
	RWH units proposed	Yes, Rain water collection pond	
	Impoundment, damming, culverting, realignment or	No impoundment, damming, culverting, realignment or other changes to the hydrology of	

	other changes to the hydrology of watercourses or aquifers?	surface water courses.
LAND		
	Proximity to forest lands	None within the area
	Access road to the site - Width & Condition	6 m. tarred road, SE
	Storage of explosives /hazardous substances	Yes, Explosives will be stored as per Explosives Act/Rules.
	Facility for solid waste mgmt	The municipal solid waste will be suitably disposed.
	Proneness of the area for landslides	No
AIR		
	Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.
ENERGY		
	Energy requirement	The total power requirement will be 75 kW for compressors, which will be drawn from diesel engine.
	Energy sources	From diesel engine.
	Extent of usage of alternative energy resources	No
BIODIVERSITY		
	Presence of any endangered species or red listed category	No
	Loss of native species and genetic diversity	Yes, For the quarrying activity all of native tree species, shrubs, herbs, climber etc. existing at site will be cleared.
	Likely displacement of fauna	No

Any introduction of alien / invasive species	No
SOCIAL ASPECTS	
Proximity to nearest habitation	151 m. , NE
CSR related to the project / allocation / time frame (details mandatory)	C.S.R activities in Education, Health, Community Development sectors are proposed to be implemented in areas around the quarry.
GENERAL	
Eco restoration programmes	The year wise programme of afforestation for the life of mine, about 4,500 trees will be planted. The main aim of the green belt development is to restore the ecosystem to its original form to a maximum possible extent by designing the green cover with the same native species.
Litigation/court cases, if any, against the project (Provide details)	Nil

OTHER DETAILS OF THE PROJECT PROPOSAL

1.	Details of Authorised Signatory	Sri. Ajas M.M. Managing Partner M/s Ponoorpoyil Granites Maranchatty Koodaranhi P.O. Kozhikode District - 673604. Tel. No. 0495-2277438; Mob. No. 09946920000; Email: ajasmohd@gmail.com
2.	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 36th SEAC held on 31st October 2014 as agenda item no. 36.12. The Committee recommended the item to SEIAA subject to receipt of clarifications regarding the following:

1. Copies of land tax receipts for unsurveyed land under the possession of Musliyarakath Shamsudeen, Musliyarakath Azad, Koovappally Aboobacker, VayalilAbdurahiman and Musliyarakath M.M. Ajas provided, but the Sy. No. of the present project is not mentioned in any of the land tax receipts.
2. The copies of possession certificates for unsurveyed land in Re.Sy. Block No. 153 under the possession of M.C. Muhammed, Azad M.M., Abdu Rahiman and Shamsudeen provided. But as per the possession certificates, the class of land is unsurveyed land and the Sy. No. of the present project is not mentioned in it.
3. Consent from the owners of respective Sy. Nos. except from M.C. Muhammed who, provided but the same is not given for conducting quarrying activities in these Sy. Nos. but to obtain EC for quarrying activity from MoEF.

4. The proposal was placed in the 36th meeting of SEIAA held on 18th April 2015. The Authority has decided to call for approved Mining Plan for appraisal by SEAC as per the Kerala Minor Mineral Concession Rules -2015. On submission of the approved mining plan the proposal was placed in the 39th meeting of SEAC. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report and all other documents submitted along with the Form I application and decided to stick to the recommendations of the 36th meeting of the SEAC and recommended for issuance of EC for the proposal with the following specific conditions over and above the other general conditions for mining projects.

1. At present steep faces are seen in the quarry from which rock is blasted. This steep area being in a precarious condition must be isolated with fencing. Work must be initiated only when it merges with the benches. Main haulage is under construction to the top crest portion to initiate quarrying with benches.
2. The hollow portion from where rainwater is likely to be directed to the working faces of the quarry must be provided with mechanical barriers like check dam and the water may be diverted through pipes/garland drains to the lower parts so that it is disposed safely.
3. Old pits are being used for depilation and clarification. But it is not done effectively. Hence a check dam may be provided in the northern exit point for enhancing the storage and to clarify the water.
4. Overburden and top soil are heaped in the northern part. It must be provided with retaining walls to arrest erosion and removal during rainy seasons.
5. Reclamation and eco-restoration should be done by planting local tree species.

5. The Authority considered the proposals as appraised and decided to grant E.C subject to the specific conditions, recommended for by SEAC, on production of cluster condition

certificate from District Geologist Kozhikode and an affidavit of the proponent that the mining area is having a minimum distance of 200 meters from notified P.A.s W.L.S and ESAs and on CSR. 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 M/s M/s Poonorpoyil Granites, Maranchatty, Koodaranhi P.O, Kozhikode District - 673604 with the following specific conditions, in addition to the general conditions stipulated for mining projects as appended hereto:

1. At present steep faces are seen in the quarry from which rock is blasted. This steep area being in a precarious condition must be isolated with fencing. Work must be initiated only when it merges with the benches. Main haulage is under construction to the top crest portion to initiate quarrying with benches.
2. The hollow portion from where rainwater is likely to be directed to the working faces of the quarry must be provided with mechanical barriers like check dam and the water may be diverted through pipes/garland drains to the lower parts so that it is disposed safely.
3. Old pits are being used for depilation and clarification. But it is not done effectively. Hence a check dam may be provided in the northern exit point for enhancing the storage and to clarify the water.
4. Overburden and top soil are heaped in the northern part. It must be provided with retaining walls to arrest erosion and removal during rainy seasons.
5. Reclamation and eco-restoration should be done by planting local tree species.
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 Chapter 4 of the Environment Management Plan 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 from 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. Ajas M.M. Managing Partner, M/s Ponoorpoyil Granites Maranchatty, Koodaranhi P.O, Kozhikode District - 673604.

Sd/-

P. MARA PANDIYAN, I.A.S.
Member Secretary (SEIAA)
&
Principal Secretary
Environment & Forests Department,
Government of Kerala.

To,

Sri. Ajas M.M.
Managing Partner,
M/s Ponoorpoyil Granites, Maranchatty,
Koodaranhi P.O, Kozhikode District - 673604

Copy to;

MoEF Regional Office, Southern Zone, Kendriya Sadan, 4th Floor, E& F Wing,
Ib block, Koramangala, Bangalore-560034.
Principal Secretary to Government, Environment Department
The District Collector, Kozhikode
The Director, Department of Environment & Climate Change.
The Director, Mining and Geology Department, Govt. of Kerala
The Secretary, Karasseery Panchayat, Mukkam, Kozhikode District-673602
Chairman, SEIAA

Website

✓ Stock File

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.

- (xxii) 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

