

सत्यमेव जयते

Validity expires on 9-8-2020

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

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

**Sub: SEIAA- Environmental Clearance for the proposed quarry project in Sy. Nos. 131/1, 137/1, 137/4-2, 137/2, 137/3, 137/4-5-2, 137/4-5, 137/4-3, 137/4-4, 137/4-6-3, 137/4-6-1, 137/4-6-4, 137/4-5-1, 136/5, 136/29, 131/2-3, 136/7, 138/1-2, 138/1-6, 132/5-3, 136/3, 132/3, 132/5-1, 132/5, 138/1, 138/1-3, 136/31, 136/30, 137/9, 138/7-1, 132/6, 132/6-1, 132/6-8, 136/20, 136/28, 128/3-2, 137/6, 137/7, 137/10, 138/1-5, 138/1-4, 137/4-6-2, 137/4-1, 136/25, 131/2-2, 131/3, 131/6-2, 136/24, 137/5, 137/8, 136/4, 130/3, 131/7, 131/4, 132/2-1, 132/5-2, 136/32, 135/1, 138/6, 137/4-6 and 128/3-1 at Kottangal Village & Panchayath, Mallappally Taluk, Pathanamthitta District, Kerala by M/s Peege Aggregates Pvt. Ltd., - Granted . Orders issued.**

### **STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY**

**No.244/SEIAA/EC4/974/2014**

**dated, Thiruvananthapuram 10-8-2015**

- Read:-**
1. Application dated 28-2-2014 submitted by Sri.Naveevn Mathew Philip, Managing Director, M/s Peegee Aggregates Pvt Ltd, 11/165, Thekkenedumplackal, Mallappally West P.O, Pathanamthitta district
  2. Minutes of the 26<sup>th</sup> meeting of SEAC held on 20/21-3-2014
  3. Minutes of the 32<sup>nd</sup> meeting of SEAC held on 12/13-8-2014
  4. Minutes of the 39<sup>th</sup> meeting of SEAC held on 14/15-5-2015
  5. Minutes of the 39<sup>th</sup> meeting of SEIAA held on 18-6-2015

### **Environmental Clearance No. 55**

Sri. Naveen Mathew Philip, Managing Director of M/s Peege Aggregates Pvt. Ltd., vide his application received on 01.03.2014, has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy. Nos. 131/1, 137/1, 137/4-2, 137/2, 137/3, 137/4-5-2, 137/4-5, 137/4-3, 137/4-4, 137/4-6-3, 137/4-6-1, 137/4-6-4, 137/4-5-1, 136/5, 136/29, 131/2-3, 136/7, 138/1-2, 138/1-6, 132/5-3, 136/3, 132/3, 132/5-1, 132/5, 138/1, 138/1-3, 136/31, 136/30, 137/9, 138/7-1, 132/6, 132/6-1, 132/6-8, 136/20, 136/28, 128/3-2, 137/6, 137/7, 137/10, 138/1-5, 138/1-4, 137/4-6-2, 137/4-1, 136/25, 131/2-2, 131/3, 131/6-2, 136/24, 137/5, 137/8, 136/4, 130/3, 131/7, 131/4, 132/2-1, 132/5-2, 136/32, 135/1, 138/6, 137/4-6 and 128/3-1 at Kottangal Village & Panchayath, Mallappally Taluk,

Pathanamthitta District, Kerala for an area of 9.90 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 18<sup>th</sup> 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 present land use is rocky land with quarrying activities. The current proposal is for the new quarry and mineral specific. Hence no alternate site was examined. Forest land is not involved in the project. Other details of the project are as follows:

Name of project		M/s Peege Aggregates Pvt. Ltd.				
Brief description of the project		Quarry project with an area of 9.90 ha. & production capacity of 3,50,000 MTA				
Category/Subcategory & Schedule		Category B/B2 & Schedule 1 (a)				
Location Sy no/ district, Taluk/ village etc.		Survey Nos. 131/1, 137/1, 137/4-2, 137/2, 137/3, 137/4-5-2, 137/4-5, 137/4-3, 137/4-4, 137/4-6-3, 137/4-6-1, 137/4-6-4, 137/4-5-1, 136/5, 136/29, 131/2-3, 136/7, 138/1-2, 138/1-6, 132/5-3, 136/3, 132/3, 132/5-1, 132/5, 138/1, 138/1-3, 136/31, 136/30, 137/9, 138/7-1, 132/6, 132/6-1, 132/6-8, 136/20, 136/28, 128/3-2, 137/6, 137/7, 137/10, 138/1-5, 138/1-4, 137/4-6-2, 137/4-1, 136/25, 131/2-2, 131/3, 131/6-2, 136/24, 137/5, 137/8, 136/4, 130/3, 131/7, 131/4, 132/2-1, 132/5-2, 136/32, 135/1, 138/6, 137/4-6, 128/3-1, Kottangal Village & Panchayat, Mallappally Taluk, Pathanamthitta District, Kerala				
GPS co-ordinates		<table><tr><td>Latitude (N)</td><td>9<sup>0</sup> 26' 33.15" to 9<sup>0</sup> 26' 18.96"</td></tr><tr><td>Longitude (E)</td><td>76<sup>0</sup> 42' 15.72" to 76<sup>0</sup> 42' 01.30"</td></tr></table>	Latitude (N)	9 <sup>0</sup> 26' 33.15" to 9 <sup>0</sup> 26' 18.96"	Longitude (E)	76 <sup>0</sup> 42' 15.72" to 76 <sup>0</sup> 42' 01.30"
Latitude (N)	9 <sup>0</sup> 26' 33.15" to 9 <sup>0</sup> 26' 18.96"					
Longitude (E)	76 <sup>0</sup> 42' 15.72" to 76 <sup>0</sup> 42' 01.30"					
for Mining projects	Extent of area (in hectares)	9.90 ha.				
	Minimum and maximum height of excavation (MSL)	65 m. MSL and 140 m. MSL				
	Life of mine proposed	30 years				
	Ultimate depth of mining (in MSL)	65 m. MSL				
	Distance from the adjacent quarry	101 m., N				
	Capacity of production	3,50,000 MTA				
	Details of project cost	Rs. 10 Crores				
	Envt 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 17 KLD in which 2 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 other changes to the hydrology of watercourses or aquifers?	No impoundment, damming, culverting, realignment or other changes to the hydrology of surface water courses.	
Water quality meeting requirements	Water quality meeting requirements after the treatment of water (filtration, disinfection & sedimentation).	
Does it have provisions for use of recycled water	No	
LAND		
Proximity to forest lands	No	
Access road to the site – Width & Condition	7 m. tarred road, NW	
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	
Significant land disturbance resulting in erosion, subsidence & instability	No	
Top soil, overburden etc.	Top soil – 49,500 cu.m. Overburden – 74,250 cu.m.	
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
<b>SOCIAL ASPECTS</b>		
	Proximity to nearest habitation	101 m. , N
	CSR related to the project / allocation / time frame (details mandatory )	As a part of Corporate Social Responsibility, it is proposed to spend minimum of Rs. 9.70 lakhs for different activities as mentioned in consultation with local Panchayat authorities.  <b>Bio-diversity fund</b> - As part of Access and Benefit Share (ABS), 1 percent of annual profit of the firm would be given to Biodiversity Management Committee of the Panchayath through the concerned Grama Panchayath towards the restoration of biodiversity loss due to the quarrying activities.
<b>GENERAL</b>		
	Eeco restoration programmes	The year wise programme of afforestation for the life of mine, about 9,500 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.

### **OTHER DETAILS OF THE PROJECT PROPOSAL**

1.	Details of Authorised Signatory	Mr. Naveen Mathew Philip Managing Director M/s Peege Aggregates Pvt. Ltd. 11/16S, Thekkenedumplackal Mallappally West P.O. Pathanamthitta, Kerala - 689585. Tel. No. 0469-2682784; Mob. No. 09446187347; Email : naveen.peege@gmail.com
2.	Details of NABET approved EIA consultant organisation	M/s Enkay Enviro Services Pvt. Ltd. 24-B, Dadumarg

		GopalBari, Ajmer Road Jaipur, Rajasthan-302001. Tel. No: 0141-4013996/4023996/4016996; Fax; 0141-4026996; Email: info@enkayenviro.com
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2. The proposal was considered in the 26<sup>th</sup> meeting of SEAC held on 20<sup>th</sup> and 21<sup>st</sup> March 2014 as agenda item no.26.12. The Committee deferred the case for site visit in order to ascertain the width of approach road, topography of the land, especially the eastern slope, proximity of the project site to the nearby temple and school and also the nature of land as to whether quarrying could be permitted after ascertaining how the proponent possessed the land. The proponent was also directed to provide the following to SEAC for further consideration of the proposal:

1. Former title deeds of the land so as to substantiate how they possessed the land and to ascertain for what purpose the land should be utilized.
2. Assurance in the form of affidavit that the approach road to the project site shall be maintained in such a way so as to facilitate smooth movement of trucks and other vehicles.
3. Fresh consent from Sri. Arun Philip Elias for conducting mining activities in Sy. Nos. which are part of the present proposal and are owned by him (especially Sy. Nos. 128/3-2, 137/4-6-2, 137/4-1 and 136/25).
4. 'One and the Same certificate' from the concerned Village Office to prove that Mathew Naveen and Naveen Mathew Philip is one and the same person.

Field inspection was conducted on 7<sup>th</sup> August 2014. The proposal was again placed in the 32<sup>nd</sup> SEAC and deferred for the proponent to submit the following documents:

1. Former title deed of the land.
2. Certificate from revenue official regarding whether the land has been assigned to individuals under any particular scheme.

The proponent has submitted the additional documents sought by 32<sup>nd</sup> SEAC. As per the Kerala Minor Mineral Concession Rules-2015, the proponent has also submitted the approved mining plan. The proposal was placed in the 39<sup>th</sup> meeting of SEAC held. The proponent along with his consultant attended the meeting and the consultant made a brief power-point presentation. The total area of the project is 17.2397ha. The land use consists of mixed vegetation, plantation with exposed rocks. The proposed project is a new one and some abandoned quarries are there adjacent to the proposed area. An existing crusher and M-sand unit are interlinked with the project which requires 20,000KLD of water. The project proponent informed that water retention pond for RWH will be constructed at the southern side of the proposed area.

3. The Committee appraised the proposal based on Mining Plan, Prefeasibility report, report of the field visit conducted on 17-06-2014 and other documents submitted

along with the application and recommend for issuance of Environmental Clearance with the following specific conditions in addition to the general conditions stipulated for mining projects

- Reclamation and eco-restoration should be done by planting indigenous species.
- Since the site marked for storing overburden is sloppy, proper protective structure to prevent erosion should be constructed.

4. 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 Pathanamthitta and an affidavit of the proponent that the mining area is having a minimum distance of 200 meters from notified P.As 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/SPeege Aggregates Pvt. Ltd., in Sy. Nos. 131/1, 137/1, 137/4-2, 137/2, 137/3, 137/4-5-2, 137/4-5, 137/4-3, 137/4-4, 137/4-6-3, 137/4-6-1, 137/4-6-4, 137/4-5-1, 136/5, 136/29, 131/2-3, 136/7, 138/1-2, 138/1-6, 132/5-3, 136/3, 132/3, 132/5-1, 132/5, 138/1, 138/1-3, 136/31, 136/30, 137/9, 138/7-1, 132/6, 132/6-1, 132/6-8, 136/20, 136/28, 128/3-2, 137/6, 137/7, 137/10, 138/1-5, 138/1-4, 137/4-6-2, 137/4-1, 136/25, 131/2-2, 131/3, 131/6-2, 136/24, 137/5, 137/8, 136/4, 130/3, 131/7, 131/4, 132/2-1, 132/5-2, 136/32, 135/1, 138/6, 137/4-6 and 128/3-1 at Kottangal Village & Panchayath, Mallappally Taluk, Pathanamthitta District, for an area of 9.90 hectares, with the following specific conditions, in addition to the general conditions stipulated for mining projects as appended hereto:

- Reclamation and eco-restoration should be done by planting indigenous species.
- Since the site marked for storing overburden is sloppy, proper protective structure to prevent erosion should be constructed.

5. 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.

6. 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.

7. 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, Pathanamthitta 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. Naveen Mathew Philip, Managing Director, M/s Peege Aggregates Pvt. Ltd., 11/165, Thekkenedumplackal, Mallappally West P.O., Pathanamthitta, Kerala - 689585.

Sd/-

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

&

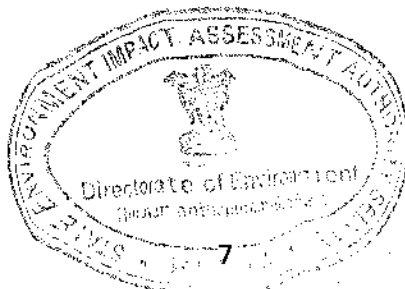
Principal Secretary  
Environment & Forests Department.  
Government of Kerala.

To,

Sri. Naveen Mathew Philip,  
Managing Director,  
M/s Peege Aggregates Pvt. Ltd.,  
11/165, Thekkenedumplackal,  
Mallappally West P.O.,  
Pathanamthitta, Kerala - 689585

Copy to;

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E & F Wing, Ilblock, Koramangala, Bangalore-560034.
2. Principal Secretary to Government, Environment Department
3. The District Collector, Pathanamthitta
4. The Director, Department of Environment & Climate Change
5. The Director, Mining and Geology Department, Government of Kerala
6. The Secretary Kottangal Grama Panchayat, Mallappally Taluk, Kulathoor P.O., Pathanamthitta district-686547
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](http://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 on consent given by any other authority for the same project

