

# Proceedings of the State Environmental Impact Assessment Authority Kerala-

(Present Prof.(Dr.)K.P.Joy, Chairman,Dr.J. Subhashini,Member,Dr.Nivedita.P.Haran IAS, Member  
Secretary & Additional Chief Secretary to Government (Environment Department)  
Sub: SEIAA, Kerala Quarry project of M/S Power Stone Products, Kodyathoor Village &  
Panchayath, Kozhikode Taluk, Kozhikode District, Kerala-Environment Clearance-Accorded

## Environmental Clearance

No. 242/SEIAA/KL/972/2014

Dated 27-11-2014

- Ref. 1. Application dated 28.02.2014 from Sri. Sukumaran E., Managing Partner of M/s Power Stone Products, Eroolkunimmal house, Agastianmuzhi, Mukam P.O, Kozhikode-673602  
2. Minutes of the 26<sup>th</sup> meeting of SEACH held on 20/21-03-2014  
3. Minutes of the 32<sup>nd</sup> meeting of SEACH held on 12/13-08-2014  
4. Minutes of the 34<sup>th</sup> Meeting of SEIAA held on 24-10-2014

DISPATCHED

Date..9/12/14..

### ORDER

Sri. Sukumaran E., Managing Partner of M/s Power Stone Products, Kodyathoor Village & Panchayath, Kozhikode Taluk, Kozhikode District, Kerala vide his application received on 01.03.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Survey Nos. Sy. Nos. 149 and 186 at Kodyathoor Village & Panchayath, Kozhikode Taluk, Kozhikode District, Kerala for an area of 3.4506 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.

File No.	242/SEIAA/KL/972/2014		
Name of project	M/s Power Stone Products		
Brief description of the project	Quarry project with an area of 3.4506 ha. & production capacity of 1,40,000 MTA		
Category/Subcategory & Schedule	Category B/B2 & Schedule 1 (a)		
Location Syno/ district, Taluk/ village etc.	Survey Nos. 149, 186, Kodyathoor Village & Panchayat, Kozhikode Taluk, Kozhikode District, Kerala.		
GPS co-ordinates	Latitude (N) 11 <sup>0</sup> 16' 36.03" to 11 <sup>0</sup> 16' 26.52" Longitude (E) 76 <sup>0</sup> 01' 20.65" to 76 <sup>0</sup> 01' 13.48"		
for Mining projects	Extent of area (in hectares)	3.4506 ha.	
	Minimum and maximum height of excavation (MSL)	68 m. MSL and 128 m. MSL	
	Life of mine proposed	27 years	
	Ultimate depth of mining (in MSL)	68 m. MSL	
	Distance from the adjacent quarry	Mava Quarry, Gothampur road, 4 km., NW.	
	Capacity of production	1,40,000 MTA	
	Details of Project Cost	Rs. 1.20 Crores	

Financial statement including funding source and details of insurance	Source of fund : Own source & loan from bank Insurance :- Oriental Insurance Co. Ltd.
CRZ recommendations	Not Applicable
Forest clearances	Not Applicable
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	Mitigation Measures
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
Facilities for liquid waste treatment	Not applicable
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	None within the study area
Access road to the site -Width & Condition	8 m. tarred road, W
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
Topographic features/ slope	The topography of the lease area is rock area. The slope of the lease area are :- Section 'A - A' = 25° Section 'C - C' = 11° Section 'E - E' = 5° Highest level = 128 m MSL, middle of the area Lowest level = 68 m MSL, NW side
Proneness of the area for landslides	No
Significant land disturbance resulting in erosion, subsidence & instability	No
Top soil, overburden etc.	Top soil - 36,847 cum. Overburden - 18,423 cum.
AIR	

Air quality meeting requirements	Yes
Noise level meeting requirements	Yes
Likely emissions affecting environment	Diesel engine emissions & emissions from movement of vehicles like dumpers, trucks, tankers etc. will also generate.
<b>ENERGY</b>	
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
<b>BIODIVERSITY</b>	
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	160 m. SW
CSR related to the project / allocation / time frame (details mandatory)	Bio-diversity fund - 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 Kodyathoor Grama Panchayath towards the restoration of biodiversity loss due to quarrying activities.
<b>GENERAL</b>	
Does it propose environment management plan	Yes
Does it have eco restoration programmes	Yes, The year wise programme of afforestation for the life of mine, about 3,000 trees will be planted. The main aim of the green belt development is to restore the ecosystem to its original form to the maximum possible extent by designing the green cover with the same native species.
Biomedical waste management	Not applicable
E-waste management	Not applicable
Sufficiency of parking spaces/ traffic management	Yes
Litigation/court cases, if any, against the project (Provide details)	No
Details of Authorised Signatory	Sri. Sukumaran E. Managing Partner M/s Power Stone Products Er. Oolkunimmal House Agastianmuzzi, Mukan P.O. Kozhikode - 673602. Tel. No. 0495-2297568; Mob. No. 0944-7337395; Email: <a href="mailto:sukumar tar@rediffmail.com">sukumar tar@rediffmail.com</a>

Details of NAB EIA 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.
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The proposal was taken up in the 26<sup>th</sup> SEAC meeting held on 20<sup>th</sup> and 21<sup>st</sup> March 2014. The item was deferred for site visit and seeking the following additional clarifications/documents from the proponent to be submitted to SEAC for further consideration of the proposal:

1. Water analysis reports from four different locations of the project site.
2. Map showing the proposed mining area marking exact distance from the survey boundary pillars.
3. Specific proposal on Corporate Social Responsibility (CSR) linked with the present project specifically showing the budget allocations and the areas/institutions to which the same shall be extended.

On submission of the same, the proposal was placed in 32<sup>nd</sup> SEAC meeting held on 12<sup>th</sup> and 13<sup>th</sup> August 2014 as agenda item no. 32.23. In the mean time, as per the decision taken in the committee a site visit was conducted by an expert team as delegated by SEAC E on 17<sup>th</sup> June 2014.

The Committee recommended the proposal as per the following specific conditions in addition to the general conditions stipulated for mining projects:

1. Tiled house located close to the quarry must be properly maintained with rest room and other facilities for workers.
2. The steep cutting face of the old quarry must be fenced and a danger sign board to be displayed.

The case was placed before the SEIAA in its 34<sup>th</sup> meeting held on 24.10.2014 and 31.10.2014.

The Authority approved the proposal for issue of environmental clearance subject to the general and special conditions as per the recommendations of SEAC, and the decision of joint meeting of SEIAA and SEAC held on 31.10.2014. The general conditions adopted for mining projects by the joint meeting have been incorporated in the annexure.

4. Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/s Power Stone Products in Survey Nos. 149, 186, Kodyathoor Village & Panchayat, Kozhikode Taluk, Kozhikode District, Kerala subject to all the mining features, Environmental Management Plans as undertaken in the EMP submitted to SEIAA (Para 4 of the report) which will form part of this proceedings as if incorporated herein, and the following additional specific conditions, and this general conditions on mining of miner mineral appended hereto:

1. Tiled house located close to the quarry must be properly maintained with rest room and other facilities for workers.
2. The steep cutting face of the old quarry must be fenced and a danger sign board to be displayed.
5. Validity of this Environmental clearance will be 5 years and it will be subject to review at any stage earlier, if any of the conditions is the E.C. is violated, or not duly complied with.
1. 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 and Forests, Govt. of India, Bangalore.
- II. 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.

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



For, Member Secretary(SEIAA)

To

Sri. Sukumaran E.  
Managing Partner  
M/s Power Stone Products  
Eroolikunnammal House  
Agastianmuzhi, Mukam P.O.  
Kozhikode - 673602.  
Tel. No. 0495-2297568,  
Mob. No. 09447337395;  
Email: [sukutristar@rediffmail.com](mailto:sukutristar@rediffmail.com)

Copy to:

1. IA-Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110003
2. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block Koramangala, Bangalore-560034
3. The Addl. Chief Secretary to Government, Environment Dept., Government of Kerala
4. The District Collector, Kozhikode
5. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm - 24.
6. The Director, Mining and Geology Department, Government of Kerala
7. The Secretary, Kodyathoor Grama Panchayath, Kozhikode district
8. Chairman SEIAA Kerala
9. Website
10. Stock file
11. O/c

# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

## GENERAL CONDITIONS (for mining projects)

- (i) Rain Water Harvesting facilities 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 dumpings 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) 200m buffer distance should be maintained from forest boundaries.
- (xxx) Consent from Kerala State Pollution Control Board under Water and Air Act(3) should be obtained before initiating activity.

(xi) 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.

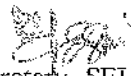
(xxxvi) A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body and also to the Local NGO, if any, from whom suggestions / representations, if any, were received while processing the proposal. The Environmental 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 or consent given by any other authority for the same project

  
Member Secretary, SEIAA Kerala

