

167

**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 Vettilappara Bricks & Metals, Vettilappara Village, Kondotty/Ernad Taluk, Malappuram District, Kerala - Environment Clearance-Accorded

**DISPATCHED**

Date...9/12/14.

**Environmental Clearance**

No. 286/SEIAA/KL/1363/2014

Dated 05-12-2014

- Ref. 1. Application dated 23.03.2014 from Sri. P.M. Mohammed, Managing Partner of M/s Vettilappara Bricks & Metals, Vettilappara P.O, Arecode, Malappuram District-673639.  
2. Minutes of the 29<sup>th</sup> meeting of SEAC held on 2/3-05-2014  
3. Minutes of the 32<sup>rd</sup> meeting of SEAC held on 12/13-08-2014  
4. Minutes of the 34<sup>th</sup> Meeting of SEIAA held on 31-10-2014

**ORDER**

Sri. P.M. Mohammed, Managing Partner of M/s Vettilappara Bricks & Metals, Vettilappara P.O, Arecode, Malappuram District-673639, vide his application received on 25.03.2014, has sought Environmental Clearance under EIA Notification, 2006 for the building stone quarry project in Sy. No. 8/2(p) at Vettilappara Village, Kondotty/Ernad Taluk, Malappuram District, Kerala for an area of 3.5832 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.



Name of project		Building Stone Quarry of Vettilappara Bricks & Metals
Brief description of the project		Open cast mining
Category/Subcategory & Schedule		"B" Category, 1(a)
Location Sy no/ district, Taluk/ village etc.		Survey No. 8/2 (Pt) of Vettilappara village, Kondotty/ Ernad Taluk, Malappuram District, Kerala state
GPS co-ordinates		Latitude(N) - 11°16' 7.32" N to 11°16' 22.23" N Longitude (E) -76° 6'43.24" E to 76° 6' 29.44" E
for Mining projects	Extent of area (in hectares)	3.5832Ha
	Minimum and maximum height of excavation (MSL)	185 m above MSL - Maximum 65m above MSL - Minimum
	Life of mine proposed	9 Years
	Ultimate depth of mining (in MSL)	40 m above MSL
	Distance from the adjacent quarry	1.3km
	Capacity of production	4,17,000 tonnes per year (max)
	Details of Project Cost	(amount in crores) <b>Total Project cost Rs. 2.00</b>
CRZ recommendations		Not Applicable as no part or whole of the lease area fall under CRZ

Forest clearances	Not Applicable as no part or whole of the lease area falls under forest.
Env't Mgmt plan/ Eco restoration plan (brief details)	Yes. Air pollution is being controlled by means of dust suppression, making crusher plant in-house, noise control through preventive & corrective maintenance, water pollution control through construction of retention wall, settling ponds etc.

ABOUT THE PROJECT	
Environmental parameters	Mitigation Measures
<b>WATER</b>	
Water requirement & sources	Domestic consumption - 0.6KLD- Open well water Dust suppression - 10KLD- Open well and water pond
RWH units proposed	One Rain water harvesting pond is proposed during post mining extending over an area of 0.358 Ha.
Facilities for liquid waste treatment	Liquid wastes from toilet and office will be treated in septic tank and soak pit
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Nil
Does it have provisions for use of recycled water	Yes
<b>LAND</b>	
Proximity to forest lands	Not Applicable
Access road to the site - Width & Condition	7m - Tarred
Storage of explosives /hazardous substances	Within the complex at the SE direction
Facility for solid waste mgmt	Solid waste will be utilized for levelling / paving of roads and construction works
Topographic features/ slope	Elongated hill, trending N55°E-S 55°W Dip : 25° N Length of the ore body : ranging from 205-300 m. (average 110m) Width of the ore body : ranging from 25-187 m. (average 106m) Depth of the ore body : 40 m MSL

Top soil, overburden etc.	15,000 tonnes of top soil 97,000 tonnes Overburden
<b>AIR</b>	
Air quality meeting requirements	Air quality monitored and analysed both in core & buffer zone and results found within the limits
Noise level meeting requirements	Noise level survey carried out both during the activity in the quarry area and nearby villages.
Likely emissions affecting environment	Due to quarry activity and operation of heavy earth moving machinery generation of dust, noise is likely.


	However, mitigative measures are proposed accordingly in the EMP.
<b>ENERGY</b>	
Energy requirement	Power supply is required for office, canteen Which is from KSEB Quarry operations are mainly by HEMM which are operated by HSD.
Energy sources	About 90 liters/hr of HSD is required in a day.
<b>BIODIVERSITY</b>	
Presence of any endangered species or red listed category	There are no endangered or rare species in the area.
Loss of native species and genetic diversity	There will not be any loss of native species of genetic diversity as the quarry already exists and continuation of the same will not affect or loss of native species in general.
<b>SOCIAL ASPECTS</b>	
Proximity to nearest habitation	230 m away from the site
CSR related to the project/ allocation/ time frame (details mandatory)	The detailed list of proposed CSR activities are given below: <ul style="list-style-type: none"> <li>• Providing rain water harvesting tank to 11 homes of Endumpali tribal colony –Rs4,50,000</li> <li>• Water supply to the local people in dry month of Odakayam (Around 40 families)- Rs1,50,000/Year</li> <li>• Supply of construction material free of cost with delivery for needy local people of Vettilappara village – Rs 2,00,000/Year</li> <li>• Financial assistance for marriage of poor people of Vettilappara village – Rs 3,00,000/Year</li> <li>• Financial assistance to poor students of Vettilappara Govt Higher Secondary School &amp; Odakayam tribal School for education- Rs 1,50,000/Year</li> <li>• Conducting medical camp and providing high ailment diseases for the poor people of Vettilappara village – Rs 2,50,000/Year</li> </ul>
<b>GENERAL</b>	
Does it propose environment management plan	Yes (Pages 36-75 of report)
Does it have eco restoration programmes	Yes(Pages 64-69 of report)
Litigation/court cases, if any, against the project (provide details)	There are no litigations against the project
Details of Authorised Signatory	Sri. P.M. Mohammed Managing Partner M/s Vettilappara Bricks & Metals Puthoor Madathil House

	Mukkam P.O. Kozhikode – 673602. Mob. No. 9946227932 Email: mkmhabeeb@gmail.com
Details of NABET approved EIA consultant organisation	M/s Metamorphosis #143, 2 <sup>nd</sup> Floor, 39 <sup>th</sup> Main, 4 <sup>th</sup> Cross Behind Silk Board BTM Layout 2 <sup>nd</sup> Stage Bengaluru - 560068; TeleFax: +9180 26783006/07 Email: mail@metamorphosis-india.com

2. The proposal was taken up in the 29<sup>th</sup> SEAC meeting held on 2<sup>nd</sup> and 3<sup>rd</sup> May 2014. The item was deferred for site visit to ascertain whether quarrying could be permitted in the area taking into account of the slope, and seeking certain clarifications for further consideration of the proposal. The proponent has submitted the additional clarifications/documents sought and 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. 32.33 for appraisal. In the mean time, as per the decision taken in the committee a site visit was conducted by an expert team on 19<sup>th</sup> June 2014.
3. The Committee recommended the proposal as per the following specific conditions in addition to the general conditions stipulated for mining projects:
  1. Steep cutting faces on the lower/bottom region must be fenced and provided with danger signs.
  2. Facility for storage of top soil and overburden should be made for restoration of quarry during the closure.
4. The application, corrected documents and minutes of the meeting of SEAC was placed in the 34<sup>th</sup> meeting of SEIAA held as 24/31-10-2014. The Authority examined the case in detail and approved the proposal for issue of Environmental Clearance subject to the general and special conditions as per the recommendations of SEAC and general conditions as modified as per 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. Validity of the E.C will be 5 years.
5. Environmental Clearance under EIA notification 2006 is accorded for the proposed quarry project of M/s Vettilappara Bricks & Metals, in Sy. No. 8/2(p) at Vettilappara Village, Kondotty/Ernad Taluk, Malappuram District, Kerala subject to all the mining features, Environmental Management Plans as undertaken in the EMP submitted to SEIAA (Pages 36-75 of report) which will form part of this proceedings as if incorporated herein, the following specific conditions, and the general conditions on mining of minor mineral appended hereto:
  - (1). Steep cuttings are seen in the active and old quarried faces. Bench formation is just introduced in the presently active working area on the top but need planning with a main haulage leading to the top. Hence the steeply cut faces on the lower / bottom region must be fenced and provided with danger signs.
  - (2). Pockets of over burden are seen in the elevated crustal parts. This need to be removed and stored in designated places and working of the quarry must follow a top to bottom approach. Care must be taken when the overburden is removed from the steep slopes.

- 171
- (3). Mechanism provided to channelize water, arrest soil movement, desiltation and clarification of water need to be revised. The old pit in proximity to the channel on the lowest slope can be deepened and used to harvest rain water. The structure must be provided with proper silt trap and overflow section. The water exiting from these areas must be further clarified on the lower slope before it is let out. A catch water drain at the lower slope is a must in the site.
- (4). Facility for storage of top soil and overburden is randomly done and not in designated sites. The present practice of dumping it haphazardly requires modification. There is a need to preserve overburden for restoration of the quarry during the closure.
- (5). A buffer distance of 100m must be maintained from the lease area to the main road.
6. 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.

- I. 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, Malappuram to take legal action under the Environment (Protection) Act 1986.

  
For Member Secretary(SEIAA)

To

Sri. P.M. Mohammed  
Managing Partner  
M/s Vettilappara Bricks & Metals  
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Mukkam P.O.  
Kozhikode 673602  
Mob. No. 9946227932  
Email: mkmhabeeb@gmail.com



Copy to :

1. MoEF Regional Office, Southern Zone, Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, II Block Koramangala, Bangalore-560034
2. The Addl. Chief Secretary to Government, Environment Dept., Government of Kerala
3. The District Collector, Malappuram
4. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm - 24.
5. The Director, Mining and Geology Department, Government of Kerala
6. The Secretary, Uranagatiri Panchayath, Uranagatiri P.O, Malappuram -673639
7. Chairman SEIAA Kerala
8. Website
9. Stock file
10. 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) 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.

- (xii) 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.
- (iii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority
- (iv) 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.
- (v) 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

*[Signature]*

For Member Secretary, SEIAA Kerala

