

By Regd A/D



Government of Kerala

**Department of Environment & Climate Change**

(The Secretariat of SEIAA & SEAC Kerala)

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No. 49/SEIAA/KL/7178/2012

02-09-2013

From

The Director

To

Mr. Joseph Jacob  
Managing Director  
M/s Poabs Granites Products Pvt. Ltd.  
Kuttoor P.O., Thiruvalla  
Pathanamthitta - 689106.

Sir,

Sub: Environment Impact Assessment Authority - Proposed quarry project at Ayyampuzha Village and Panchayath, Aluva Taluk, Ernakulam District, Kerala by M/s Poabs Granites Products Pvt. Ltd. - Environmental Clearance under EIA Notification 2006 - Forwarded.

Ref: Proceedings of even no. dt. 23-08-2013 of State Environment Impact Assessment Authority Kerala

I am forwarding herewith the Environmental Clearance (EC) issued by State Level Environment Impact Assessment Authority Kerala (SEIAA Kerala) to Mr. Joseph Jacob, Managing Director, M/s Poabs Granites Products Pvt. Ltd., for the quarry project at Ayyampuzha Village and Panchayath, Aluva Taluk, Ernakulam District, Kerala vide reference cited.

You are requested to comply with the following immediately:

- (i) Return a copy of the EC with due signature of the authorized signatory in all pages in token of acceptance.
- (ii) Forward copies of newspaper advertisements in which the Environmental Clearance issued is published and
- (iii) Forward a NOTARIZED affidavit mentioning the EC proceedings number and date, stating that all the conditions stipulated in the EC shall be scrupulously followed.

Yours faithfully,

  
P. Sreekantan Nair  
Director

Encls: As above



सत्यमेव जयते

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

*Present: Dr. A.E. Muthunayagam, Chairman; Prof. (Dr.) K.P. Joy, Member; Sri. Pradeep Kumar IAS, Member Secretary*

Sub: SEIAA Kerala - Proposed quarry project in Survey Nos. 373/1, 373/2, 378/2-2, 372/1-2 and 164/1-187 at Ayyampuzha Village and Panchayath, Aluva Taluk, Ernakulam District, Kerala by M/s Poabs Granites Products Pvt. Ltd. – Environmental Clearance under EIA Notification 2006 accorded – Orders issued

### ***Environmental Clearance***

No. 49/SEIAA/KL/7178/2012

dated, Thiruvananthapuram 23-08-2013

#### **ORDER**

Mr. Joseph Jacob, Managing Director of M/s Poabs Granites Products Pvt. Ltd., vide their revised application received on 04-01-2013, has sought environmental clearance under the EIA Notification, 2006 for the quarry project in Survey Nos. 373/1, 373/2, 378/2-2, 372/1-2 and 164/1-187 at Ayyampuzha Village and Panchayath, Aluva Taluk, Ernakulam District, Kerala. The proposed quarry site is private land and the land is possessed in the name of M/s Poabs Granite Products Pvt. Ltd. No forest land is involved in the present project. It is interalia, noted that the project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006. The proposed project site falls within the coordinates mentioned in Annexure -1 of 15<sup>th</sup> SEAC minutes attached herewith as Annexure A. The proposed project is for quarrying of 2,85,000 MTA of building granite stone from an area of 4.8367 hectare of land. The expected life of mine will be 3.28 years (Pit-1) and 2 years (Pit-2).

The proposal has been appraised by the State Level Expert Appraisal Committee Kerala constituted by the competent authority, as per prescribed procedure in the lights of provisions under the EIA Notification 2006 and subsequent amendments, in its 11<sup>th</sup> meeting held on 9<sup>th</sup> January 2013, 15<sup>th</sup> meeting held on 4<sup>th</sup> May 2013 and 16<sup>th</sup> meeting held on 31<sup>st</sup> May & 1<sup>st</sup> June 2013 AND on the basis of the supporting documents enclosed with the application viz., the Form – 1, questionnaire for mining projects, pre-feasibility report, Environment Management Plan and the additional clarifications furnished in response to the observations, the SEAC Kerala recommended environmental clearance to the project.

The proposed project activity involves about 97 percent of the lease area for exploring granite building stone. At the end of life of mine, pits will be fully reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining will be done by open cast semi mechanized method of mining. The bench height and width proposed is 5 m. The exploitation of mineral is being done from 240-185 m MSL in conceptual phase. A total quantity of 17,306 m<sup>3</sup> of top soil and 22,521 m<sup>3</sup> of overburden (pit-1 and pit-2 together) will be removed from both pits during mining operations. The top soil shall be dumped separately at pre-determined place and subsequently will be utilized in spreading over reclaimed areas for plantation. Overburden shall be utilized for laying internal haul roads and shall form base in reclamation/plantation. The daily water

requirement of 5.50 KLD will be met from storm water reservoir or tube well. The sewage of 1 KLD generated from the mine office will be diverted to the septic tank followed by soak pit. 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 and avoiding overloading of vehicles. The total power requirement of 150 kW will be drawn from diesel engine. The total cost of the project is ₹ 2.25 Crore.

The SEIAA considered the proposal in its 18<sup>th</sup> meeting held on 23<sup>rd</sup> May 2013, 19<sup>th</sup> meeting held on 14<sup>th</sup> June 2013 and 20<sup>th</sup> meeting held on 19<sup>th</sup> July 2013. The SEIAA, after due consideration of the relevant documents and additional clarifications submitted by the project proponent, and in view of the recommendations of SEAC, approved for issuance of Environmental Clearance for the project mentioned above at its 20<sup>th</sup> meeting held on 19<sup>th</sup> July 2013. Accordingly, the State Level Environment Impact Assessment Authority (SEIAA) Kerala constituted by Govt. of India vide Notification No. S.O. 2484(E) dt. 3-11-2011 of Ministry of Environment and Forests, Govt. of India, published as Gazette extraordinary No. 2074 on 3-11-2011, hereby accord necessary Environmental Clearance for the quarry project in Survey Nos. 373/1, 373/2, 378/2-2, 372/1-2 and 164/1-187 at Ayyampuzha Village and Panchayath, Aluva Taluk, Ernakulam District, Kerala by M/s Poabs Granites Products Pvt. Ltd., where the project site falls in the co-ordinates mentioned in Annexure A attached to this order of proceedings, as per powers vested with it under the provisions of Environment Impact Assessment Notification – 2006 and subsequent amendments and also under the provisions made in the O.M. No. L-11011/47/2011-IA.II(M) dated 18<sup>th</sup> May 2012 of the Ministry of Environment and Forests, Government of India, and further subject to strict compliance of the following specific conditions, and the general conditions contained in the Annexure B, which shall also form a part of this document.

1. The transportation of minerals should be done in covered trucks to contain dust emissions.
2. PPV to be kept below 10 mm/sec for the safety of nearby dwelling units.
3. Fly rock should not cross the lease area.
4. Spent oil from DG sets should be disposed off as per Hazardous Waste (Management & Handling) Rules and sent to stores for disposal through authorized agents.
5. Amount should be earmarked for CSR components as per the provisions of Companies Bill, 2011.
6. Consent from the abutting property owners must be obtained prior to starting the mining operations.
7. The space provided for stacking the overburden proposed in the slope should be relocated to a lower elevation.
8. The existing GT station in the site should be preserved.
9. Conduct the mining operations in the entire area under possession as one block including the existing one, since fragmenting the project causes unplanned quarrying with loss of extractable reserves.
10. The original conceptual mining plan should be revised and mining operations executed as per the revised plan approved by SEAC.
11. Arrangements must be made to provide adequate safe drinking water to all project workers.

Compliance of the above conditions will be monitored by the Directorate of the Department of Environment and Climate Change, Government of Kerala or its agencies and also by the Regional Office of the Ministry of Environment and Forests, Government of India located at Bangalore. Necessary support for entry and inspection should be provided by the project proponent to the staff of

the Directorate and Ministry for monitoring purposes. In case of non-compliance of conditions, noted, if any, the Director, Department of Environment and Climate Change shall report the matter to the District Collector concerned to take necessary action under Environment Protection Act 1986.

**The given address of correspondence of the Authorized Signatory of the project is:-** Mr. Joseph Jacob, Managing Director, M/s Poabs Granites Products Pvt. Ltd., Kuttoor P.O., Thiruvalla, Pathanamthitta – 689106; Telephone No. 0469-2743300; Email: mail@poabs.com

**Agency with NABET accreditation for EIA is:-** M/s Enkay Enviro Services, 24-B, Basement, Dadu Marg, Gopal Bari, Jaipur-302001; Tel. No. 0141-2363996/4023996; Fax No: 0141-5118996; E-mail: info@enkayenviro.com

**Sd/-**  
Pradeep Kumar IAS  
Member Secretary, SEIAA  
and Principal Secretary to Government  
Environment, Forest & Wildlife Departments

To

Mr. Joseph Jacob  
Managing Director  
M/s Poabs Granites Products Pvt. Ltd.  
Kuttoor P.O., Thiruvalla  
Pathanamthitta – 689106.

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 Principal Secretary to Government, Environment Dept., Government of Kerala
4. The Principal Secretary to Government, Local Self Government Department
5. The District Collector concerned
6. The Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm – 24.
7. The Director, Mining and Geology Department, Government of Kerala
8. Chairman and Members of SEIAA Kerala
9. Chairman, SEAC Kerala
10. Website uploading
11. Stock file

Forwarded/ By Order

P. Sreekantan Nair  
Director, DoECC &  
Secretary SEAC Kerala

**STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA**  
**GENERAL CONDITIONS (for mining projects)**

- (i) Rain water harvesting to collect and utilize the entire water falling in land area should be provided.
- (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, inclusive of approach road and internal roads.
- (iv) The project shall incorporate devices for solar energy generation and utilization wherever possible.
- (v) Sprinklers shall be installed and used in the project site to contain dust emissions.
- (vi) The eco-restoration plan submitted with the proposal should be fully implemented.
- (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) Rain Water Harvesting capacity should be installed as per the prevailing provisions of KMBR / KPBR.
- (ix) Corporate Social Responsibility agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Bill, 2011.
- (x) Barbed metal wire fencing around the mining area shall be provided with a height of not less than 5 ft so that falling of animals/human/belongings/dumping of garbages etc. does not happen.
- (xi) Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per stipulations of Explosive Department.
- (xii) Control measures on noise and vibration prescribed by KSPCB should be implemented.
- (xiii) Quarrying activities should be limited to day time as per KSPCB guidelines.
- (xiv) Blasting should be done in a controlled manner as specified by the regulations of Explosives Department or any other concerned agency.
- (xv) A licensed person should supervise/ control the blasting operations.
- (xvi) Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.
- (xvii) Overburden materials should be managed within the site and the old quarries, if any, should be reclaimed and restored.
- (xviii) Height of benches should not exceed 5 m and width should not be less than 5 m.
- (xix) Mats to reduce fly rock blast to a maximum of 15 PPV should be provided.
- (xx) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (xxi) No mining operations should be carried out at places having a slope greater than 45°.
- (xxii) 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.
- (xxiii) The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.
- (xxiv) Assurance in the form of affidavit should be given to SEIAA that eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.
- (xxv) Assurance in the form of affidavit should be given to SEIAA that only a maximum of 10 percent of the total mined area shall be retained as water body, which shall be lined properly and further provided with protective wall to prevent accidents.

- (xxvi) Garland drains to be provided in the lower slopes around the core area to channelize storm water.
- (xxvii) Debris/ silt traps to be provided to prevent entry of dust and quarry wastes entering the main streams.
- (xxviii) All other statutory clearances should have been obtained, as applicable, by project proponents from the respective competent authorities including that for blasting and storage of explosives.
- (xxix) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxx) 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.
- (xxxi) 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.
- (xxxii) 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 should be forwarded to the office of this Authority as confirmation.
- (xxxiii) 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.
- (xxxiv) 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.
- (xxxv) The conditions 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.
- (xxxvi) 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.
- (xxxvii) Time schedule for completion of project should be informed to SEIAA.

Sd/-  
Member Secretary, SEIAA Kerala



## Annexure-1 of 15th SEAC meeting

The geographical location of the mine with respect to the boundary pillars (Pit-1 & Pit-2) is

| PIT - 1            |  | PIT - 2            |   |
|--------------------|--|--------------------|---|
| Boundary pillar 1  | 10 <sup>o</sup> 14' 44.262" N &<br>76 <sup>o</sup> 27' 50.9356" E  | Boundary pillar 1  | 10 <sup>o</sup> 14' 46.3623" N &<br>76 <sup>o</sup> 27' 55.9521" E  |
| Boundary pillar 2  | 10 <sup>o</sup> 14' 44.2655" N &<br>76 <sup>o</sup> 27' 50.4901" E | Boundary pillar 2  | 10 <sup>o</sup> 14' 43.6486" N<br>& 76 <sup>o</sup> 27' 55.5354" E  |
| Boundary pillar 3  | 10 <sup>o</sup> 14' 45.0082" N &<br>76 <sup>o</sup> 27' 46.8646" E | Boundary pillar 3  | 10 <sup>o</sup> 14' 42.3759" N &<br>76 <sup>o</sup> 27' 55.1187" E  |
| Boundary pillar 4  | 10 <sup>o</sup> 14' 43.9379" N &<br>76 <sup>o</sup> 27' 46.6912" E | Boundary pillar 4  | 10 <sup>o</sup> 14' 41.456" N &<br>76 <sup>o</sup> 27' 54.988" E    |
| Boundary pillar 5  | 10 <sup>o</sup> 14' 40.52" N &<br>76 <sup>o</sup> 27' 45.77" E     | Boundary pillar 5  | 10 <sup>o</sup> 14' 39.8962" N &<br>76 <sup>o</sup> 27' 54.1075" E  |
| Boundary pillar 6  | 10 <sup>o</sup> 14' 43.4379" N &<br>76 <sup>o</sup> 27' 45.985" E  | Boundary pillar 6  | 10 <sup>o</sup> 14' 39.6056" N &<br>76 <sup>o</sup> 27' 53.5864" E  |
| Boundary pillar 7  | 10 <sup>o</sup> 14' 49.9517" N &<br>76 <sup>o</sup> 27' 46.3296" E | Boundary pillar 7  | 10 <sup>o</sup> 14' 40.43.57" N &<br>76 <sup>o</sup> 27' 52.4433" E |
| Boundary pillar 8  | 10 <sup>o</sup> 14' 50.3253" N &<br>76 <sup>o</sup> 27' 44.6963" E | Boundary pillar 8  | 10 <sup>o</sup> 14' 40.8966" N &<br>76 <sup>o</sup> 27' 52.8557" E  |
| Boundary pillar 9  | 10 <sup>o</sup> 14' 49.7605" N &<br>76 <sup>o</sup> 27' 44.5996" E | Boundary pillar 9  | 10 <sup>o</sup> 14' 41.2279" N &<br>76 <sup>o</sup> 27' 52.1396" E  |
| Boundary pillar 10 | 10 <sup>o</sup> 14' 50.0019" N &<br>76 <sup>o</sup> 27' 43.3914" E | Boundary pillar 10 | 10 <sup>o</sup> 14' 39.8872" N &<br>76 <sup>o</sup> 27' 51.5889" E  |
| Boundary pillar 11 | 10 <sup>o</sup> 14' 50.5083" N &<br>76 <sup>o</sup> 27' 43.5517" E | Boundary pillar 11 | 10 <sup>o</sup> 14' 40.0786" N &<br>76 <sup>o</sup> 27' 51.2767" E  |
| Boundary pillar 12 | 10 <sup>o</sup> 14' 50.5931" N &<br>76 <sup>o</sup> 27' 44.7581" E | Boundary pillar 12 | 10 <sup>o</sup> 14' 40.1785" N &<br>76 <sup>o</sup> 27' 51.3347" E  |
| Boundary pillar 13 | 10 <sup>o</sup> 14' 51.496" N &<br>76 <sup>o</sup> 27' 44.696" E   | Boundary pillar 13 | 10 <sup>o</sup> 14' 40.2459" N &<br>76 <sup>o</sup> 27' 51.2598" E  |
| Boundary pillar 14 | 10 <sup>o</sup> 14' 51.8725" N &<br>76 <sup>o</sup> 27' 45.532" E  | Boundary pillar 14 | 10 <sup>o</sup> 14' 39.9374" N &<br>76 <sup>o</sup> 27' 50.9151" E  |
| Boundary pillar 15 | 10 <sup>o</sup> 14' 52.152" N &<br>76 <sup>o</sup> 27' 46.4939" E  | Boundary pillar 15 | 10 <sup>o</sup> 14' 41.0029" N &<br>76 <sup>o</sup> 27' 49.9713" E  |
| Boundary pillar 16 | 10 <sup>o</sup> 14' 52.2199" N &<br>76 <sup>o</sup> 27' 48.621" E  | Boundary pillar 16 | 10 <sup>o</sup> 14' 41.7249" N &<br>76 <sup>o</sup> 27' 50.792" E   |
| Boundary pillar 17 | 10 <sup>o</sup> 14' 51.7766" N &<br>76 <sup>o</sup> 27' 49.4811" E | Boundary pillar 17 | 10 <sup>o</sup> 14' 41.4182" N &<br>76 <sup>o</sup> 27' 51.4816" E  |
| Boundary pillar 18 | 10 <sup>o</sup> 14' 49.2369" N &<br>76 <sup>o</sup> 27' 49.1674" E | Boundary pillar 18 | 10 <sup>o</sup> 14' 41.8865" N &<br>76 <sup>o</sup> 27' 51.7042" E  |

|                    |  |                    |  |
|--------------------|--|--------------------|--|
| Boundary pillar 19 | 10 <sup>0</sup> 14' 49.18" N &<br>76 <sup>0</sup> 27' 49.5377" E   | Boundary pillar 19 | 10 <sup>0</sup> 14' 42.2743" N &<br>76 <sup>0</sup> 27' 51.7521" E |
| Boundary pillar 20 | 10 <sup>0</sup> 14' 45.4488" N &<br>76 <sup>0</sup> 27' 50.6046" E | Boundary pillar 20 | 10 <sup>0</sup> 14' 42.7818" N &<br>76 <sup>0</sup> 27' 51.9509" E |
| Boundary pillar 21 | 10 <sup>0</sup> 14' 44.8468" N &<br>76 <sup>0</sup> 27' 50.9715" E | Boundary pillar 21 | 10 <sup>0</sup> 14' 44.3766" N &<br>76 <sup>0</sup> 27' 52.2792" E |
|                    |  | Boundary pillar 22 | 10 <sup>0</sup> 14' 45.1117" N &<br>76 <sup>0</sup> 27' 52.1356" E |
|                    |  | Boundary pillar 23 | 10 <sup>0</sup> 14' 45.8109" N &<br>76 <sup>0</sup> 27' 52.4388" E |
|                    |  | Boundary pillar 24 | 10 <sup>0</sup> 14' 45.6533" N &<br>76 <sup>0</sup> 27' 53.724" E  |
|                    |  | Boundary pillar 25 | 10 <sup>0</sup> 14' 45.7306" N &<br>76 <sup>0</sup> 27' 53.7352" E |
|                    |  | Boundary pillar 26 | 10 <sup>0</sup> 14' 46.6099" N &<br>76 <sup>0</sup> 27' 53.4163" E |
|                    |  | Boundary pillar 27 | 10 <sup>0</sup> 14' 55.0136" N &<br>76 <sup>0</sup> 27' 55.0136" E |

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