



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

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

Sub: - Environmental clearance for the building stone quarry project in Sy.Nos.133/1, 133/1-1, 133/2, 133/3, 133/5, 133/6, 133/6-1, 133/6-2, 133/6-3, 133/6-4, 133/6-5, 133/6-6, 133/6-7, 133/7, 133/7-1, 133/7-2, 133/7-3, 133/7-4, 133/8-1, 133/9, 133/9-2, 107/4-1, 107/6, 107/6-2, 107/7, 107/7-2, 107/7-3, 107/8, 108/1, 108/3, 108/3-1 at Kottangal Village, Mallapally Taluk, Pathanamthitta District by Sri. A.D. John-E.C-Granted.

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**STATE ENVIRONMENTAL IMPACT ASSESSMENT AUTHORITY**

**No. 803/EC4/2120/2015/SEIAA**

***Dated: 05-03-2016***

- Read:-**
1. Application dated nil from Sri. A.D. John, Puthenveetil, Mallapally, Perumpramavu P.O., Pathanamthitta-689587.
  2. Minutes of the 47<sup>th</sup> meeting of SEAC held on 13/14-10-2015.
  3. Minutes of the 49<sup>th</sup> meeting of SEAC held on 7/8-12-2015.
  4. Minutes of the 50<sup>th</sup> meeting of SEAC held on 30/31-12-2015.
  5. Minutes of the 49<sup>th</sup> meeting of SEIAA held on 5-2-2016.

**ENVIRONMENTAL CLEARANCE NO. 32 / 2016**

Sri. A.D. John, Managing Director, Puthenveetil, Mallapally, Keezhuvaipur, Perumpramavu P.O, Pathanamthitta-689587 vide his application received on 20-05-2015 has sought Environmental Clearance under EIA Notification, 2006 for the quarry project in Sy.Nos.133/1, 133/1-1, 133/2, 133/3, 133/5, 133/6, 133/6-1, 133/6-2, 133/6-3, 133/6-4, 133/6-5, 133/6-6, 133/6-7, 133/7, 133/7-1, 133/7-2, 133/7-3, 133/7-4, 133/8-1, 133/9, 133/9-2, 107/4-1, 107/6, 107/6-2, 107/7, 107/7-2, 107/7-3, 107/8, 108/1, 108/3, 108/3-1 at Kottangal Village, Mallapally Taluk, Pathanamthitta District for an area of 4.07.31 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) dated 24.12.2013 of Ministry of Environment and Forests, since the area of the project is below 4.07.31 hectares.

The proposed project site falls within Latitude: 09°26'37.32"N and Longitude: 76°42'10.41"E. The highest and lowest elevation of the mine lease area is 70 m MSL and 25 m MSL respectively. About 7252 m<sup>3</sup> of rejected rocks will be generated as waste and it will dump within the mine area and utilized to reclaim the pit. About 0.75 KLD will be treated in septic tanks and disposed through soak pit/ dispersion trench. The total water requirement is 17 KLD, which drawn from bore well. Manimala River is situated at a distance of about 0.48 km N. Other details of the project are as under:

<i>for Mining projects</i>	<i>Extent of area (in hectares)</i>	4.07.31 Hectares
	<i>Minimum and maximum height of excavation (MSL)</i>	70 m & 25 m RL
	<i>Life of mine proposed</i>	5 Years
	<i>Ultimate depth of mining (in MSL)</i>	36 m
	<i>Distance from the adjacent quarry</i>	1.5 km
	<i>Capacity of production</i>	27546 Cu.m / Annum (Max. rate of production)
	<i>Details of Project Cost</i>	59.78 Lakhs
<b>ABOUT THE PROJECT</b>		
<b><i>Environmental Parameters Considered</i></b>		
<b>WATER</b>		
Water requirement & sources		17.0 KLD & Open well at the Project site
RWH units proposed		Existing pit will be utilized as rain water reservoir.
Facilities for liquid waste treatment		Domestic wastewater generated will be treated through the septic tank followed by soak pit.
Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?		--
Water quality meeting requirements		Water quality in the study area is meeting the requirements prescribed by the PCB.
<b>LAND</b>		
Proximity to forest lands		None within the study area.
Is the land assigned for any other special purpose; Give details		Whole land will be used for quarry purpose.
Access road to the site –Width & Condition		Width of the access road to site is 8m.
Storage of explosives /hazardous substances		Explosives will be stored as per the Indian Explosive Act 1958 & explosive rules 1983.
Facility for solid waste management.		It is proposed to stack initially along the lease boundary and will be backfilled finally within the

	mine lease area.
Topographic features/ slope	Topography of the area is hilly terrain.
Proneness of the area for landslides	Site area fall under Seismic Zone III. It is not a landslide prone area.
Significant land disturbance resulting in erosion, subsidence & instability	Due to excavation, significant land disturbance will occur.
Top soil, overburden etc.	Top soil 12183 m <sup>3</sup> & Over burden 7249 m <sup>3</sup> will be generated during the mining period. It will be stacked separately & backfilled at the end of life of mine.
<b>AIR</b>	
Air quality meeting requirements	Water sprinkling and other mitigation measures will be provided during mining activity to control the air emissions.
Noise level meeting requirements	Adequate mitigation measures will be provided to control the noise emissions during blasting & mining activity.
Likely emissions affecting environment	There will not be any other major emissions
<b>BIODIVERSITY</b>	
Loss of native species and genetic diversity	The proposed mining activity involves clearing of minor shrubs and weeds and does not cause loss of native species or genetic diversity. To be rectified as per Mining Plan.
Likely displacement of fauna	There will not be any major displacement of fauna
Any introduction of alien / invasive species	The proposed mining activity does not introduce any alien species.
<b>SOCIAL ASPECTS</b>	
Proximity to nearest habitation	Vaipur-0.5 km, NE
CSR components suggested	CSR (Rs. 7 lakhs) will be allocated for different activities such as Renovation of Govt. school buildings, repairing of damaged roads, organizing health camps.
Does it propose environment management plan	Details are in EMP report.
Sufficiency of parking spaces/ traffic management	The existing transport facilities will be utilized for the proposed project. The proposed project does not involve any closure or diversions of existing transport routes.
Litigation/court cases, if any, against the project (provide details)	Nil as declared
<b>GENERAL</b>	
Details of Authorised Signatory	Sri. A.D. John Puthenveetil, Mallapally, Keezhuvaipur, Perumpramavu P.O Pathanamthitta District, Kerala-689 587
Details of NABET approved EIA consultant organization	Certificate No.:NABET/EIA/1316/RA001 ABC Techno Labs India Pvt. Ltd, No.2, 2nd street, Thangam colony, Anna nagar West, Chennai- 600 040 Ph: +91 -422 -2453737

2. The 47<sup>th</sup> SEAC appraised the proposal and decided to defer the item for field visit by the subcommittee concerned. Field visit to the Quarry project site of Sri A.D. John, in Kottangal Village, Mallappally Taluk, Pathanamthitta district, Kerala was carried out on 24.10.2015 by the sub-committee of SEAC. The Proponent with his representatives were present at the site at the time of site visit. The details are given below:

‘The project is located at about 0.5 km south of Vaipur and shares a common boundary with M/S P G Aggregates, another quarry project for which EC has been granted. However the combined area is less than 25 ha. This quarry lease area of 4.0731 ha falling in own land occupy the northern slopes of an elevated ridge part of which has been exploited. The elevation of the lease area ranges from 70m in the rock exposed hillock to 30 m in the lower northern part. The rock type is weakly foliated charnockite with prominent subvertical joints. Pockets of weathered rock with about 1 m thick over burden (OB) and top soil is seen interspersed with rock out crops in the upper southern part while the northern part has thicker OB cover. The entire storm water from the area including the land of P G Aggregates flows as sheet flow to the north and further along the stream channel indicated in the Cadastral map. RWH structures are also not seen excepting for a quarry pit. Manimala River is seen at a distance of 0.5 km to the north. Rubber is the dominant land use. Floral biodiversity is not observed as there is considerably disturbed. Dwelling units are seen in the vicinity but beyond 100 m distance. A disused track is seen on the southern boundary. The project is for quarry without any crusher unit.

Based on an overall evaluation of the site, the quarry operations may be recommended with following conditions:

1. The proponent must submit the Cadastral map of the lease area clearly indicating the area proposed to be quarried ensuring a minimum 100m buffer distance from the dwelling units.
2. Fencing should be provided all around the lease area.
3. Storm water drainage from the quarry must be let out to the stream only after clarification. The stream seen on the north western side must be maintained for conducting rainwater.
4. RWH structure should be provided in the site.
5. Ultimate depth of mine must be limited to the floor level of Manimala River which is at about 20 m amsl.
6. OB must be stored in a designated place at a lower elevation and not as planned at a higher elevated place.
7. Approach roads to the quarry and the main haulage road need to be developed with a minimum width of 6 m.
8. The mandatory 50 m buffer distance need not be insisted from the disused track on the southern side.
9. The CSR need redrafting with inclusion of felt needs of the locality. It should ensure employment to the local people.

Other items from general conditions like a) Appropriate sign boards should be

displayed, b) The blasting time must be displayed and strictly adhered to, c) The PPV values must be less than 10 mm/sec, d) Steps to be taken to limit fly rock to within the lease area. Rock fragments should not fall anywhere outside the lease area, e) Dust suppression mechanism must be in place f) A belt of trees (Vegetation belt) should be maintained all around the quarry but must be maintained till the entire life of quarry, g) A separate small plot to be maintained in the premise to preserve rare and endemic species, if any, listed in the biodiversity assessment etc'.

3. The proposal along with field visit report was again placed in the 49<sup>th</sup> meeting of SEAC held on 7<sup>th</sup> and 8<sup>th</sup> December 2015. The Committee deferred the item for the production of cadastral map of the lease area clearly indicating the area proposed to be quarried ensuring a minimum 100 m buffer distance from the dwelling units which was suggested by the sub-committee during field visit. The proponent has submitted the cadastral map. The proposal was again placed in the 50<sup>th</sup> meeting of SEAC held on 30<sup>th</sup> and 31<sup>st</sup> December 2015. The Committee verified the cadastral map submitted by the proponent as per the direction of Sub-committee. The Committee appraised the proposal based on the Mining Plan, Prefeasibility Report, field inspection report and all other documents submitted along with the Form I application and decided to recommend for issuance of Environmental Clearance with the following specific conditions, in addition to the general conditions stipulated for mining projects.

1. Fencing should be provided all around the lease area.
2. Storm water drainage from the quarry must be let out to the stream only after clarification. The stream seen on the north western side must be maintained for conducting rainwater.
3. RWH structure should be provided in the site.
4. Ultimate depth of mine must be limited to the floor level of Manimala River which is at about 20 m AMSL.
5. OB must be stored in a designated place at a lower elevation.
6. Approach roads to the quarry and the main haulage road need to be developed with a minimum width of 6 m.

4. The proposal was placed in the 49<sup>th</sup> meeting of SEIAA held on 5<sup>th</sup> February 2016. Authority considered the recommendations and decided to grant E.C. subject to specification of the CSR amounts proposed to be set apart and the specific conditions given in para 3, and the general conditions stipulated for mining projects.

5. Environmental clearance is therefore granted to the proposed quarry project by Sri. A.D. John in Sy.Nos.133/1, 133/1-1, 133/2, 133/3, 133/5, 133/6, 133/6-1, 133/6-2, 133/6-3, 133/6-4, 133/6-5, 133/6-6, 133/6-7, 133/7, 133/7-1, 133/7-2, 133/7-3, 133/7-4, 133/8-1, 133/9, 133/9-2, 107/4-1, 107/6, 107/6-2, 107/7, 107/7-2, 107/7-3, 107/8, 108/1, 108/3, 108/3-1 at Kottangal Village, Mallapally Taluk, Pathanamthitta District for an area of 4.07.31 hectares subject to specific conditions mentioned in para 3, general conditions and the mitigation measures undertaken in the EMP in the PFR and Mining Plan submitted.

6. The clearance issued will 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 PFR on Environment Management 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 the 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 this 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, Pathanamthitta to take legal action under the Environment (Protection) Act, 1986.

iii) The given address for correspondence with the authorized signatory of the project Sri. A.D. John, Managing Director, Puthenveetil, Mallapally, Keezhuvaipur, Perumpramavu P.O, Pathanamthitta-689587.

Sd/-

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

&

Addl. Chief Secretary  
Environment & Forests Department  
Government of Kerala.

To,

Sri. A.D. John,  
Managing Director,  
Puthenveetil, Mallapally,  
Keezhuvaipur,  
Perumpramavu P.O,  
Pathanamthitta-689587.



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 Additional Chief Secretary to Government, Environment Department, Government of Kerala.
3. The District Collector, Pathanamthitta
4. Director, Dept. of Environment and Climate Change, Govt. of Kerala, Tvm-24.
5. Director, Mining & Geology, Thiruvananthapuram -4.
6. The Secretary, Kottangal Grama Panchayat, Pathanamthitta.
7. Chairman, SEIAA, Kerala
8. Website
9. S/f
10. O/c

Forwarded/By Order



Administrator  
SEIAA

# STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY KERALA

## GENERAL CONDITIONS (for mining projects)

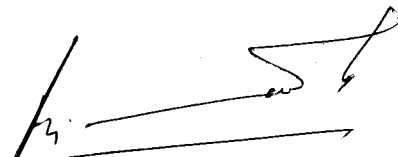
- (i) Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR / KPBR, unless otherwise specified.
- (ii) Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.
- (iii) Suitable avenue trees should be planted 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) 100 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.

- (xxxvi) 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.
- (xxxvii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxxviii) 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.
- (xxxix) 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.
- (xl) 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.
- (xli) 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.
- (xlii) 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.
- (xliii) 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
- (xliv) 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.
- (xlv) 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



  
for Member Secretary, SEIAA Kerala