

Sub: SEAA, Kerala Quarry project of M/S Verginland Plantations & Farm Pvt. Ltd at  
Kadangode Village, Kadangode Panchayath, Thalappilly Taluk, Thrissur District-  
Environment Clearance- Issued

### Environmental Clearance

No.162/SEAA/3492/2013

Dated 01-10-2014

- Ref 1. Application dated 07-12-2013 submitted by Sri.P.K. Jaleel, Verginland Plantations & Farm Ltd, X1-497Q Kadangode Panchayath, Thippillissery P.O., Thalappilly Taluk, Thrissur - 680519
2. Minutes of the 25<sup>th</sup> Meeting of SEAC held on 6/7-01-2014.
  3. Minutes of the 29<sup>th</sup> Meeting of SEAC held on 2/3-03-2014.
  4. Minutes of the 30<sup>th</sup> Meeting of SEAC held on 6/7-06-2014.
  5. Minutes of the 33<sup>rd</sup> Meeting of SEAC held on 24-09-2014.

### ORDER

Sri. P.K. Jaleel, Managing Director of M/s Verginland Plantations & Farms Pvt. Ltd., vide his application received on 09-12-2013, has sought Environmental Clearance under EIA Notification, 2006 for the proposed quarry project at Kadangode Village and Panchayath, Thalappilly Taluk, Thrissur District, Kerala for an area of 9.668 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. Basic data regarding the project and Environmental Impact Mitigation Measures as furnished by the project proponent are as follows:

Brief description of the project		Quarry project with an area of 9.668 ha. & production capacity of 3,00,000 MTA	
Category/Subcategory & Schedule		Category B/B2 & Schedule 1 (a)	
Location Sy no/ district, Taluk/ village etc.		Sy. No. 1323/1, 1253/4, 1322/7, 1322/2 (539/97/2/2), 1323/7, 1323/9 (539/97/3/9), 1322/4, 1322/7, 1323/11 (539/97/3/11), 1324/5 (539/97/5/5), 1323/2, 1256/2, 1256/1, 1323/5, 1323/4 (539/97/3/4), 1325/1 (539/97/4/1), 1324/1, 1323/10, 1322/3 (539/97/2/3), 1323/8 (539/97/3/8), 1324/6 (539/97/5/6), 1324/7 (539/97/5/7) 1228/3 and 1322/1 (539/97/2/1), Village & Panchayat - Kadangode, Taluk - Thalappilly, District - Thrissur, Kerala	
GPS co-ordinates		Latitude (N)	10° 42' 38.11" to 10° 42' 27.17"
		Longitude (E)	76° 08' 23.35" to 76° 07' 59.15"
Minim g projec	Extent of area (in hectares)	9.668 ha.	
	Minimum and maximum height of excavation (MSL)	65 m. MSL and 135 m. MSL	

	Life of mine proposed	25 years
	Ultimate depth of mining (in MSL)	55 m. MSL
	Distance from the adjacent quarry	Mailady Sali Quarry, 1 km, W M/s ABA Crusher Unit, 1 km, W
	Capacity of production	3,00,000 MTA
	Details of project cost	Rs. 2 Crores
	CRZ recommendations	Not applicable
	Forest clearances	Not applicable
	Does it attract violation proceedings	No
	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 ecosystem. Environment Management Plan at Pg. 50-68 of the prefeasibility report submitted.
	Environmental parameters	Mitigation Measures
<b>WATER</b>		
	Water requirement & sources	The total water requirement is about 5 KLD (Domestic - 1 KLD, Dust suppression - 2 KLD & Plantation - 2 KLD). The source of water is from storm water pond / well.
	Proximity to forest lands	No
	Access road to the site - Width & Condition	8 m. tarred road, N side
	Storage of explosives /hazardous substances	Yes, Explosives will be stored as per Explosives Act/Rules.
	Facility for solid waste mgmt	The municipal solid waste from the will be suitably disposed.
	Topographic features/ slope	The topography of the lease area is hilly area. The slope of the lease area are :- Section 'C - C' = 10° Section 'E - E' = 7° Section 'F - F' = 16° Highest level = 135 m MSL, NE side Lowest level = 65 m MSL, W side
<b>AIR</b>		
	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.
<b>BIODIVERSITY</b>		
	Presence of any endangered species or red listed category	No
	Loss of native species and genetic diversity	For the quarrying activity all of native tree species, shrubs, herbs, climber etc. existing at site will be cleared. 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 quarrying activities.
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#### SOCIAL ASPECTS

	Proximity to nearest habitation	191 m., S
	CSR related to the project / allocation / time frame (details mandatory)	<p>As a part of Corporate Social Responsibility, it is proposed to spend minimum of Rs. 5.75 lakhs per annum for different activities as mentioned in consultation with local village authorities. The detailed break-up proposed CSR activities are :-</p> <p>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 Panchayath through the concerned Grama Panchayath towards the restoration of biodiversity loss due to quarrying activities.</p>

#### GENERAL

	Does it have eco restoration programmes	The year wise programme of afforestation for the life of mine, about 7,500 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.
	Whether the project site falls within ESZ -1 of WGEEP report or ESA of HLWG	ESZ -3 of WGEEP report and not in ESA

1.	Quantity of topsoil estimated to be removed	2,62,352 m <sup>3</sup>
2.	Method of mining	Open cast semi mechanized method
3.	Details of Authorised Signatory	<p>Mr. P.K. Jaleel  Managing Director  M/s Verginland Plantations &amp; Farms Pvt Ltd.  Kadangode, Thippillissery P.O.  Thalappilly Taluk, Thrissur District  Kerala - 680519.  Tel. No. 04885-266278;  Mob. No. 08592900300;  Email: bestgranites8@gmail.com;  fazeeroyal@gmail.com</p>
4.	Details of NABET approved EIA consultant organisation	<p>M/s Enkay Enviro Services Pvt. Ltd.  24-B, Dadu Marg  Gopal Bari, Ajmer Road  Jaipur, Rajasthan-302001.  Tel. No: 0141-4013996/402 3996 /401 6996;  Fax; 0141 -4026996;  Email: info@enkayenviro.com</p>

2. The proposal was considered as agenda item no. 23.07 in the 23<sup>rd</sup> SEAC meeting held on 6<sup>th</sup> and 7<sup>th</sup> January 2014 and was deferred for the inspection and seeking certain additional clarifications for further processing of the application. Subsequently, a subcommittee of SEAC consisting of Dr. H.G.K. Pillai, Chairman SEAC, and Sri. John Mathai, Member SEAC inspected the site on 5<sup>th</sup> March 2014, and reported as follows:

"Locally known as Best granite by virtue of a crusher unit in that name, the quarry is located in quarry area where many open quarries are noted. Area with scant population, elevated country, exposed rock etc is a suitable location for quarry. But fragmenting the area into smaller leases may not be advisable and may result in reduced recovery of material. Rock is massive charnockite exposed in parts and covered with patches of overburden and lited soil cover. Old quarry workings show presence of steep cuttings which need to be reduced by providing benches. Settlements are not seen in 100 m distance. Rubber is the dominant land use in the elevated parts.

Following points need to be considered:-

- \* Storm water from the quarry area laden with silt is to be channelized into storage tanks, desilted and clarified before it is let out of the premises.
- \* The area presents a very dusty environment. Dust suppression mechanism is to be enforced.
- \* Being a quarry zone it is essential to indicate the entire area in possession of the proponent. The abandoned area with old type of workings can be brought under the quarry zone with modern methods of workings, if planned properly.
- \* Steep cuttings left as abandoned need to be fenced and danger boards to be displayed.

On submission of the clarifications/ additional documents by the proponent, the matter was placed before SEAC in its 29<sup>th</sup> meeting held on 2<sup>nd</sup> and 3<sup>rd</sup> May 2014 as agenda item no. 29.18, for verification of the documents and for decisions. The Committee verified the additional clarifications/documents submitted by the proponent. Certain shortcomings were found in the additional clarifications sought by 23<sup>rd</sup> SEAC meeting: The item was deferred directing the proponent to clarify the discrepancies, on ownership of land. The proponent has submitted the clarifications and hence placed before SEAC for decisions. The SEAC recommended the project subject who to the general conditions on mining.

3. The Application, documents and recommendation of SEAC were placed in the 33<sup>rd</sup> meeting of the SEIAA held on 24-09-2014. The SEIAA considered the recommendation of SEAC, assurances given by the project proponent various reports and clarification submitted by him, Inspection Report and all other relevant documents. It was decided to approve the project and to issue Environmental Clearance under EIA notification 2006, as per the documents submitted by the Project Proponent as appraised and recommended by the SEAC.

4. Environmental Clearance under the EIA notification 2006 is accorded for the proposed quarry project of M/s Verigin Land Plantation and Farms Private Limited, In Survey Nos. 1323/1, 1253/4, 1322/7, 1322/2 (539/97/2/2), 1323/7, 1323/9 (539/97/3/9), 1322/4, 1322/7, 1323/11(539/97/3/11), 1324/5 (539/97/5/5), 1323/2, 1256/2, 1256/1, 1323/5, 1323/4 (539/97/3/4), 1325/1(539/97/4/1), 1324/1, 1323/10, 1322/3 (539/97/2/3), 1323/8 (539/97/3/8), 1324/6 (539/97/5/6), 1324/7 (539/97/5/7), 1228/3 and 1322/1 (539/97/2/1), at Kadangode Village and Panchayath, Thalappilly Taluk, Thrissur District, subject to all the mining features, Environmental management plan as undertaken in the EMP as submitted to the SEIAA, which will deemed to be a part of this proceedings as if incorporate herein, the mitigation measures specified against the Environmental Impacts in the Table in Para 1 above, the following additional specific conditions and the general condition of mining of minor minerals appended here to:

- \* Storm water from the quarry area laden with silt is to be channelized into storage tanks, desilted and clarified before it is let out of the premises.

- \* The area presents a very dusty environment. Dust suppression mechanism is to be enforced.
  - \* Being a quarry zone it is essential to include the entire area in possession of the proponent. The abandoned area with old type of workings can be brought under the quarry zone with modern methods of workings, if planned properly.
  - \* Steep cuttings left as abandoned need to be fenced and danger boards to be displayed.
5. Validity of this Environmental Clearance will be 25 years from 1-10-2014, to be reviewed once in every 5 years, provided earlier review will be conducted in case any of the conditions on Environmental Clearance is violated at any time.
  6.
    - 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, Thrissur to take legal action under the Environment (Protection) Act 1986.



  
 For Member Secretary, SEIAA

To

Sri.P.K.Jaleel,  
 Managing Director,  
 M/s Vergin Land Plantations & Farms Pvt.Ltd,  
 Kadangode, Thippillissery (P.O.)  
 Thrissur-680 519

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, Thrissur
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, Kadangode Grama Panchayath, Thrissur - 680 584
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 capacity should be installed as per the prevailing provisions of KNEP / KSPB, unless otherwise specified elsewhere.
- (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) 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 in tune with the conditions specified in the Companies Act, 2013.
- (ix) 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 beings/dumping of garbages etc. does not happen.
- (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) Mining depth should not exceed beyond 40 m, unless otherwise specified or not below the level of nearest stream bed, whichever is less.
- (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) Norms of Kerala State Pollution Control Board should be adhered to regarding distance criteria of residences, roads, rivers and worship places.
- (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 have been obtained before initiating activity.

- (xxxii) 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.
- (xxxiii) In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Authority.
- (xxxiv) 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.
- (xxxv) 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.
- (xxxvi) 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.
- (xxxvii) 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.
- (xxxviii) 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.
- (xxxix) 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.
- (xl) 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.



Member Secretary, SEIAA Kerala

