

Quarry project of

M/s Chelakkara Granite

APPLICANT

***Sri. K.R Viswanathan
M/s Chelakkara Granite
Managing Partner
S/o Raman Nair
Kannimangalath House
Ooramana P.O
Ramamangalam, Ernakulam-686663***

<i>PROJECT LOCATION</i>	
<i>Sy. No</i>	<i>138/(pt), 370/3(pt), 836(pt),837(pt), 838(pt), 839(pt), 847(pt)</i>
<i>AREA</i>	<i>4.2649Ha</i>
<i>VILLAGE</i>	<i>KILLIMANGALAM</i>
<i>TALUK</i>	<i>THALAPPILLY</i>
<i>DISTRICT</i>	<i>THRISSUR</i>
<i>STATE</i>	<i>KERALA</i>

Second Half Compliance Report

(Ref: File . No. 855/SEIAA/EC1/2979/2015 dtd. 18-05-2017 (EC No: 35/2017))

For the period up to

October 2018- March 2019

THOMARAPPARA BRICKS AND METALS

VETTELAPPARA, MALAPPURAM

To, Director

Department of Environment and Climate Change

Government of Kerala

Sub: Environmental clearance — Proposed quarry Project Re Sy. No. 6/1 at Vettelappara Village, Ernad Taluk Malappuram District, Kerala - 2nd Compliance report- Reg.

Ref: File No. 856/SEIAA/ECI/2980/2015 dt. 01-06-2016

Respect Sir

Our Quarry project was accorded with Environmental Clearance vide order no 856/SEIAA/ECI/2980/2015 dt. 01-06-2016. The 2nd compliance report of the specific and general condition of the Environmental Clearance is enclosed.

Thanking you

Your Faithfully



Mr. Hisham. E.C

Managing partner

Thomarappara Bricks & metals

Copy to

The Regional Director

MOEF Regional Office, southern zone, kendriyasadan, 4th floor

E&F Wing, II block, Bangalore-560034

TABLE OF CONTENTS

Item number	Description	Page number
I	About the proponent	5
II	About the project	5
	Project category	5
	Project location	6
	Project extent and activity	6
	Project description	6
III	Report of Compliance	7
	Compliance of specific condition	7
	Compliance of general condition	8-22
IV.	Annexure	23
	Annexure G-8: Attached copy of CSR Receipts	24-33
	Annexure G-30: Consent copy of Kerala state pollution control board	34-39
	Annexure G.31(1), 31(1A) – Copy of D& O license issued from Panjal Grama Panchayath	40-43
	Annexure G-31 (2) : Copy of explosive license issued from the petroleum and Explosive safety Organization.	44-48
	Annexure G.31(3) – Copy of the quarrying lease issued from the Director of mining & geology	49-53
	Annexure G.35: Attached copy of paper cuttings.	54-55
	Annexure G.37: Result of Monitored Data	56-59

	Plates	60
V	Plate S-1: Overburden is Stacked	61
	Plate S-3: approach road to the quarry	62
	Plate S-4: Sprinklers	63
	S-5: Sapling Photos	64
	Plate G-1: Rain water Harvesting Pond.	65
	Plate G-3: Avenue trees are planted along the tarred road side.	66
	Plate G-5: Water Sprinkler	66
	Plate G-10: Displayed blasting time board.	67
	Plate G-15: Access Road to the quarry	68
	Plate G-16: Overburden is Stacked	69
	Plate G-17: Mining Benches.	70
	Plate G-19: Mining depth not below general ground level	71
	Plate G-22: Workers with protective equipments.	72
	Plate G-24: Transportation of materials in covered truck	73
	G-27: Magazine	74
	G-38: Display EC board	75

1. ABOUT THE PROPONENT

Sri. K.R Viswanathan, Managing Partner of M/s Chelakkara Granite in Kilimangalam Village and Thalappilly Taluk, Thrissur District, Kerala state.

State Environmental Impact Assessment Authority (SEIAA), Kerala accorded Environmental Clearance No. 855/SEIAA/EC1/2979/2015 dtd 18-05-2017 (35/2017) to the quarry project of M/s Chelakkara Granite in Kilimangalam Village, Thalappilly Taluk, Thrissur District, Kerala managed by Sri. K.R Viswanathan

The quarry project is controlled and managed by Sri. K.R Viswanathan, S/o Raman Nair, Kannimangalath house Ooramana P.O. Ramamangalam, Ernakulam 686663. Contact Details; Phone No: **7559988133** e-mail: chelakkaracrusher@gmail.com

II. ABOUT THE PROJECT

a. Project category:

The project comes under the Category B, Activity 1(a), (i) of Schedule of EIA Notification 2006 and subsequent amendments.

b. Project location:

Sy. No. 138/(pt), 370/3(pt), 836(pt),837(pt), 838(pt), 839(pt), 847(pt) at Kilimangalam Village, Thalappilly Taluk, Thrissur District, Kerala. The proposed project site falls within 10°43'10.34" N to 10°43'19.91" N and 76°19'41.04" E to 76°19'50.60" E.

c. Project extent and activity:

The project is for quarrying of 2,00,000 MTA of building stone from an area of 4.2649 hectares of land located as specified above.

d. Project description:

The proposed project activity involves about 100 % of the pit area for exploring building stone. At the end of life of mine, excavated pit will be fully reclaimed and rehabilitated by plantation. The proposed project does not involve any underground mining activities. The mining is done by open cast semi mechanized method.

No	STIPULATIONS IN EC	STATUS OF COMPLIANCE	REMARKS
S-1	Over burden is partly stored in the eastern side in a planned manner. It must be provided with protective support	Overburden properly stacked in isolated place	<u>Plate S-1:</u> Stacked overburden
S-2	The drainage from the quarry is currently directed to the SW corner pond.	Scrupulously follow the direction contained.	
S-3	The approach road to the quarry from the main road is not maintained at all. This road must be maintained in good motorable condition by the proponent.	Approach roads properly well maintained.	<u>Plate S-3:</u> approach road to the quarry.
S-4	Dust suppression mechanism must be in place	Scrupulously follow the direction contained.	<u>Plate S-4:</u> Sprinklers
S-5	Planting of trees needed	Scrupulously follow the direction contained.	<u>Plate S-5:</u> Sapling Photos
S-6	Nearest house is only 103 away	Currently There is no residence at that area, and now, the property belongs to company.	
S-7	Forest land is found only 50m away from the lease area. Even though the land is classified as forest land, the areas abutting the lease area is devoid of any trees and is a conditions of rocky patches. .	Statutory safe distance shall be maintained without fail.	
S-8	Protective fences is to be erected in the deep cuttings and all around the lease area.	Entire lease area has properly fenced.	

B.GENERAL CONDITIONS

Item No	Stipulations in EC	Status of Compliance	Remarks
G-1	Rain Water Harvesting facility should Be installed as per the prevailing provisions of KMBR/KPBR,	Provision is made for storage of rain water	<u>Plate G-1:</u> Rain water Harvesting Pond.
G-2	Environment Monitoring Cell as Agreed under the affidavit filed by the proponent should be formed and made functional	Scrupulously follow the direction contained.	
G-3	Suitable avenue trees should be planted along either side of tarred road and open parking areas, if any, inclusive of approach road and internal roads	Avenue trees by way of natural vegetation are present along either side of the approach road and internal road.	<u>Plate G-3:</u> Avenue trees are planted along the tarred road side.
G-4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Solar energy generation and utilization is being explored	
G-5	Sprinklers shall be installed and used in the project site to contain dust emissions.	Sprinklers are used in the project site to contain dust emissions	<u>Plate G-5:</u> Water Sprinkler.
G-6	Eco-restoration including the mine closure plan shall be done at the own cost of the project proponent.	It is assured that eco-restoration including the mine closure plan will be done at the own cost of the project proponent.	
	At least 10 percent out of the total	At the time of the closure of the	

G-7	excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with and overburden and planted with indigenous plant species that are eco-friendly. If, no other specific condition on reclamation of pit is stipulated in the E.C	mine, it shall be ensured that the directions contained are scrupulously followed.	
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented	Activities towards Corporate Social Responsibility are being done in tune with the conditions specified in the Companies Act,2013.	<u>Annexure G-8:</u> copy of some receipts of corporate social responsibility.
G-9	The lease area shall be fenced off with barbed wires to a minimum height of 4ft around, before starting of mining. All the boundary indicators (boards, stores, markings, etc) shall be protected at all times and shall be conspicuous.	Entire lease area has fenced	.
G-10	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged as per Stipulations of Explosive Department.	Warning alarms installed in the project site and Display Blasting Time Board.	<u>Plate G-10:</u> Displayed blasting time board.
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Scrupulously will follow the direction contained	

G-12	Quarrying activities should be limited to day time as per KSPCB Should be implemented.	Quarrying is done only day time from 7 am to 5 pm.	
G-13	Blasting should be done in a controlled manner as specified by the regulation of explosives Department or any other concerned agency.	Scrupulously follow the direction contained.	
G-14	A licensed person should supervise/ control the blasting operations.	Scrupulously follow the direction contained.	
G-15	Access roads to the quarry shall be tarred to contain dust emissions that may arise during transportation of materials.	Access road to the quarry site is tarred	<u>Plate G-15:</u> Access Road to the quarry
G-16	Overburden materials should be managed within the site and used for reclamation of mine pit as per mined closure plan/ specific conditions.	Overburden is stacked in pre-determined site specified for site Purpose	<u>Plate G-16:</u> Overburden is Stacked
G-17	Height of benches should not exceed 5 m and width should not be less than 5	Height of the benches is maintained at 5 x 5 m.	<u>Plate G-17:</u> Mining Benches.
G-18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided.	Scrupulously will follow the direction contained.	
G-19	Maximum depth of mining from general ground level at site shall not exceed 10m.	The maximum depth of mining is now above ground level.	<u>Plate G-19:</u> Mining depth not below general ground level
G-20	No mining operations should be carried	It is ensured that no mining is	

	out at places having a slope greater than 45°.	carried out at places having a slope greater than 45°, if any.	
G-21	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.	Acoustic enclosures are provided for the existing crusher unit located outside the project site.	
G-22	The workers on the site should be provided with the required protective equipment such as ear muffs, helmet, etc.	The workers on the site is provided with the required protective equipment such as ear muffs, helmet, etc.	<u>Plate G-22:</u> Workers with protective equipments.
G-23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Garland drains are provided to channelize storm water.	
G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	Materials are transported only in covered trucks.	<u>Plate G-24:</u> Transportation of materials in covered truck
G-25	The proponent should plant trees at least 5 times of the loss that has been occurred while clearing the land for the project.	Scrupulously follow the direction contained.	
G-26	Disposal of spent oil from diesel engines should be as specified under relevant	Not applicable	

	Rules/Regulations.		
G-27	Explosives should be stored in magazines in isolated place specified and approved by Explosive Dept.	Explosives are stored in magazine located in isolated place.	<u>Plate G-27:</u> Magazine
G-28	A Minimum buffer distance of 100 m from the boundary of the quarry to the nearest dwelling unit or other structure, not being any facility for mining shall be provided.	Statutory safe distance shall be maintained without fail.	
G-29	100 m buffer distance should be maintained from forest boundaries.	Statutory safe distance shall be maintained without fail	
G-30	Consent from Kerala State Pollution, Control Board under Water and Air (Acts) should have been obtained before initiating mining activity.	Consent letter is attached (File No: PCB/RO-EKM/TSR/OL-805/17) Issued by 04-08-2017 valid up to 31/12/2020	<u>Annexure G-30;</u> Attached Copy of the pollution certificate.
G-31	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.	Clearing are obtaining from; 1.Panjal Grama Panchayath (License No; C3-15/2018-19) issued by 01/04/2018 valid up to 31/03/2019)	<u>1.Annexure G- 31(1);</u> attached Copy of D & O License issued by Panjal Grama Panchayath

		2.Panjal Grama Panchayath renewal License No; C3-C3/919/2019/2019-20) 01/04/2019 valid up to 31/03/2020)	<u>Annexure G-31 (1A):</u> attached Copy of D & O License (renewal) issued from Panjal Grama Panchayath
		2. Petroleum and Explosive safety Organization (formerly Department of Explosives) License (No. E/SE/KL/30/481(E67127)) valid up to 20/03/2022	<u>Annexure G-31(2):</u> attached Copy of explosive license issued from the petroleum and Explosives Safety Organization.
		4. Quarrying Lease order issued by the Director of Mining & geology (No. 661/2017-18/6982/M3/2016 DMG dtd. 11/01/2018)	<u>Annexure G – 31(3):</u> attached copy of the Quarrying Lease order issued from Director of mining & Geology.
	In the case of any change in the scope of the project, extent quantity, process of mining technology involved or in any way affecting the environmental parameters/	The Proponent shall abide by the directions of SEIAA Kerala in such a context, if arises	

G-32	impacts as assessed, based on which only the E.C is issued. The projects would require a fresh appraisal by this authority, for which the proponent shall apply and get the approval of this Authority.		
G-33	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.	The proponent shall abide by the directions of SEIAA Kerala in such a context, if arises.	
G-34	The stipulations by Statutory Authorities under different Acts and Notifications should be complied with including the provisions of 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.	Strict compliance is adhered to and is reviewed periodically by the top management.	
	The project proponent should advertise in at least two local newspapers widely	Scrupulously follow the direction contained.	<u>Annexure G-35</u> ; Attached paper cuttings

G-35	<p>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.environmentalclearance.nic.in . 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.</p>		
G-36	<p>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</p>	<p>Scrupulously follow the direction contained.</p>	

	Environmental clearance shall also be put on the website of the company by the proponent.		
G-37	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. It shall Sent to the Regional office of MoEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) Office	Scrupulously follow the direction contained.	<u>Annexure G- 37:</u> Result of Monitored Data
G-38	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.	The conditions of Environmental Clearance are prominently displayed in a metallic board.	<u>Plate G-38:</u> Display EC Board
G-39	The proponent should provide notarized affidavit (indicating the number and date of environmental clearance proceedings) that all the conditions stipulated in the EC	Affidavit was submitted to SEIAA.	

	shall be scrupulously followed.		
G-40	No change in mining technology and scope of working should be made without prior approval of the SEIAA, No, further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA. As applicable.	The conditions of SEIAA are strictly followed	
G-41	The project proponent shall ensure that no natural water course and/ or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	Scrupulously follow the direction contained.	
G-42	Monitoring of Ambient air quality to be carried out based on the notification 2009, as amended from time to time by the central pollution control board. Water sprinkling should be increased at places loading and unloading points & transfer point to reduce fugitive emission	Scrupulously follow the direction contained	
	The Top soil, if any, shall temporarily to be stored at earmarked sites, only. For the topsoil shall be used for land reclamation and plantation. The over burden generated	Scrupulously follow the direction contained.	

G-43	<p>during the mining operations shall be stacked at earmarked dump site only. the maximum height of the dumps shall not exceed 8 m and width 20m and overall slope of the dumps shall be maintained to 45o. the OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.</p>		
G-44	<p>Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilizing for watering the mine area. Roads, green belt development t etc. the drains shall be regularly desilted particularly after</p>	<p>Mineral dumps and OB are maintained at the working site, in order prevent the runoff of water and sediments into water bodies. The drains are desilted regularly.</p>	

	monsoon and maintained properly.		
G-45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, Loading and unloading points and transfer points-it shall be ensured that the ambient air quality parameters conform to the norms prescribed by the central pollution control board in this regard.	Effective safeguard measures are adopted in critical areas that are prone to air pollution. Ambient air quality according to the norms of CPCB are followed in loading – unloading points and transfer points.	
G-46	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement on haul roads, loading and unloading and at transfer points should be provided and properly maintained	There is a regular control on dust emission sources. Water spraying arrangements are properly maintained	
G-47	Measures should be taken for control of noise levels below 85 dBA in work environment .	Measurements of noise levels are taken in the work environment.	
G-48	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a senior Executive ,who will report directly to the head of the organization .	The environmental management cell regularly reports to the head of the organization.	

G-49	The funds earmarked for environmental protection measures and CSR activate should be kept in separate account and should be reported to the state Environment Impact Assessment Authority (SEIAA) office.	Scrupulously follow the direction contained.	
G-50	The Regional Office of MOEF&CC Located at Bangalore shall extend full cooperation to the officer (S) of the Regional Office by furnishing the requisite data /information /monitoring reports	The mentioned condition Is followed	
G-51	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal , if preferred ,within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act ,2010	There is no appeal against EC	
G-52	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of the this clearance and attract action under the provisions of Environment (protection) Act,1986	Such a situation never come across.	
G-53	The SEIAA may revoke or suspend the	Scrupulously follow the direction	

	order, for non implementation of any of the specific or this implementation of any of the above conditions is not satisfactory .The SEIAA reserves the right to alter /modify the above conditions or stipulate any further conditions in the interest of environment protection.	contained.	
G-54	The above conditions shall prevail notwithstanding anything to the contrary in consistent ,or simplified, contained in any other permit, license on consent given by other authority for the same project .	Such a situation never come across.	
G-55	This order is valid for a period of 5 years or the expiry date of mine lease period issued by the Government of Kerala whichever is earlier .	scrupulously follows the directions contained	
G-56	The Environmental Clearance will be subject to the final order of the courts of the in any pending litigation related to the land or project, in any court of law.	There is no fault in the land or project.	
G-57	The mining operation shall be restricted to above ground water table and it should not intersect ground water table.	The mining operation is alone above ground water table	
G-58	All vehicles used for transportation and within the mines shall have PUC	Scrupulously follow the direction contained.	

	certificate from authorized pollution talking Centre .washing of all vehicles shall be inside the lease area.		
G-59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and ground water for the project.	scrupulously follows the directions contained.	
G-60	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six monthly reports to SEIAA.	Scrupulously follow the direction contained.	
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust and corrective measures ,if needed.	Scrupulously follow the direction contained.	