Environmental clearance

(Minor mineral)

First Half Compliance Report

For the period up to

(April 2020 – September 2020)

Quarry project Name of

Ms. Chelakkara Granites

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

APPLICANT

Mr.KR Viswanathan
Managing Partner
M/s. Chelakkara Granites
Killimangalam Post, Chelakkara
Thrissur District, Kerala

PROJECT LOCATION			
Survey. No 138/(pt), 370/3(pt),836(pt),			
	837(pt),838(pt),839(pt),847(pt)		
Area(Ha) 4.1132 Ha			
Village	Killimangalam		
Taluk	Thapappilly		
District	Thrissur		
State	Kerala		

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I. ABOUT THE PROPONENT

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

State Environment Impact Assessment Authority (SEIAA) Kerala accorded Environmental Clearance No:-855/SEIAA/EC1/2979/2015, Dated.18-05-2017 to the quarry project M/s Chelakkara Granite in Killimangalam Village and Thalappilly Taluk, Thrissur District, Kerala.

The quarry project is controlled and managed by Mr.K.R.Viswanathan, Managing Partner, M/s Chelakkara Granite, Chelakkara Granite, Killimangalam, Thrissur District, and Kerala State.

Contact details.

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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:

C. Survey No:-138/ (pt), 836(pt), 837(pt), 838(pt), 839(pt), 847((pt) at Killimangalam Village, Thalappilly Taluk, Thrissur District, and Kerala State. The proposed project site falls within 76°19'41.04"E to 76°19'50.60"E and 10°43'10.34"E to 10°43'19.91" E.

d. Project extent and activity

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

e. Project description:

The proposed project activity involves about 100% of the pit area for exploring Laterite. The proposed project does not involve any underground mining activities. The mining is be done by open cast semi mechanized method.

COMPLIANCE REPORT Of SPECIFIC CONDITION (PART A)

Item No	Stipulations in EC	Status of Compliance	Remarks
	Over burden is partly stored in the eastern side	Scrupulously following the	Plate S-1: OB Area
	in a planned MANNER. It must be provided	direction Mentioned	
S-1	with protective support.		
	The drainage from the quarry is currently	Scrupulously following the	Plate S-2: Drainage
S-2	directed to the SW corner pond.	direction Mentioned	
	The approach road to the quarry from the	Scrupulously following the	Plate S-3: Drainage
	main road is not maintained at all. This road	direction Mentioned	
	must be maintained a good motor able		
S-3	condition by the proponent.		
	Dust suppression mechanism must be in place.	Scrupulously following the	Plate S-4: Sprinklers
S-4		direction Mentioned	
		Scrupulously following the	Plate S-5: Plantation
S-5	Planting of trees needed.	direction Mentioned	
S-6	Nearest house is only 103m away		
	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 continuation of		
S-7	rocky patches.		
	Protective fences are to be erected in the deep	Barbed metal wire fencing	Plate S-8: Fenced with
	cutting and all around the lease area.	is installed around the	barbed metal wires
		mining area with a height	
		of 4 ft to prevent falling of	
		animals/Human	
		belongings/dumping of	
S-8		garbage's etc.	

COMPLIANCE REPORT OF GENRAL CONDITION (PART B)

Item No	Stipulations in EC	Status of Compliance	Remarks
C 1	Rain Water Harvesting facility should be installed	Provision is made for storage of	
G-1	as per the prevailing provisions of KMBR/KPBR,		A
G-2	Environment Monitoring Cell as a greed under the	An environmental Monitoring cell	Annexure G-2: Attached
	affidavit filed by the proponent should be formed	(EMC) was formed with Mr.	copy of details of
	and made functional.	Saidalavi K as head of the	Environment Monitoring
		monitoring cell and made	Cell
		functional. Meeting of monitoring	
		cell is arranged every month and	
		discussed the status of the	
		compliance of the specific and	
		general conditions contained in the	
		environmental clearance (EC)	
		order. The details are provided in	
		annexure G-2	
		Avenue trees by way of natural	
	Suitable avenue trees should be planted along	vegetation are present along	
	either side of tarred road and open parking areas,	either side of the tarred road, both	
G-3	if any, inclusive of approach road and internal roads.	approach road and internal road.	
	Maximum possible solar energy generation and	Scrupulously follow the direction	
G-4	utilization shall be ensured as an essential part of the project.	contained	
	Sprinklers shall be installed and used in the project	Sprinklers are used in the project	
G-5	site to contain dust emissions.	site to contain dust emissions.	
G-5			
	Eco-restoration including the mine closure plan	It is assured that eco-restoration	

G-6	shall be done at the own cost of the project proponent.	including the mine closure plan will be done at the own cost of the project proponent.	
G-7	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 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	After the closure of the mine, ten percent of the excavated pit area will be retained as water storage area. It is proposed to develop a green belt in the remaining area with indigenous plant species after reclamation of the mined area with stacked top soil and overburden.	
G-8	Corporate Social Responsibility (CSR) agreed upon by the proponent should be implemented in tune with the conditions specified in the Companies Act, 2013.	Corporate social responsibility activities are effectively implemented. The details are provided in annexure NO: 8	Annexure G-8: 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.	Barbed metal wire fencing is installed around the mining area with a height of 4 ft to prevent falling of animals/ human/ belongings/dumping of garbage's etc.	Plate G-9: Fenced with barbed metal wires
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 alams are arranged in the project area and working properly. The time of blasting in the quarry is 10 am and 5 pm on all working	Plate G-10. Display blasting Time board.

		days.
G-11	Control measures on noise and vibration prescribed by KSPCB should be implemented.	Mitigation measures implemented: The major noise generating source from the mining activity is working machinery. Drilling, blasting and plying of vehicles. The following control measures are undertaken to bring down the noise levels: • Proper maintenance of machinery, equipment's and improvement of design of machines. • Personal protective device i.e., earmuffs, helmet, and boots etc. are provided to workers. • The mining activity is only during day time • Noise level at quarry site checked periodically. The sound levels are monitored through a NABL accredited laboratory during the quarry in operation and the monitored results are well within the permissible limits

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		Blast vibrations and control	
		measures:-	
		 Controlled blasting 	
		technique is adopted in this	
		project in order to reduce	
		blast vibrations	
		The maximum charge per	
		delay is not more than 10kg	
		to limit the PPV values to	
		10mm/sec.	
	Quarrying activities should be limited to day time	Quarrying activities are limited to	Plate G-12: Display
G-12	as per KSPCB guidelines.	day time only (7am to 5PM) as per	working time board
	and the second s	KSPCB guide lines. The signage	
		showing the quarrying time	
		displayed near the access road	
	Blasting should be done in a controlled manner as	The blasting is done in controlled	
G-13	specified by the regulation of explosives	manner as specified by the	
	Department or any other concerned agency.	regulations of explosives	
	a special or may outer concerned agency.	Department.	
	A licensed person should supervise/control the	A Licensed person is supervising	Annexure G-14: Attached
G-14	blasting operations.	the blasting operations within the	copy of Mining mate
		quarry area.	certificate
	Access roads to the quarry shall be tarred to contain	Access roads to the quarry properly	Plate G-15; Access road to
G-15	dust emissions that may arise during transportation	well maintained	the quarry
	of materials.		•

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	Overburden materials should be managed within	The overburden materials are	Plate G-16: Stacked
G-16	the site and used for reclamation of mine pit as per	stored within the site	overburden
	mined closure plan/ specific conditions.		
	Height of benches should not exceed 5 m and	Height of the benches is	Plate G-17: Mining Bench
G-17	width should not be less than 5 m.	maintained at 5 x 5 m.	photo
G-18	Mats to reduce fly rock blast to a maximum of	Shall be compiled	
	10 PPV should be provided.		
	Maximum depth of mining from general ground		Plate G-19: Mining depth
G-19	level at site shall not exceed 10m.	The maximum depth of mining is	not below general ground
		now above general ground level.	level
	No mining operations should be carried out at	It is ensured that no mining is	
G-20	places having a slope greater than 45°.	carried out at places having a slope	
		greater than 45°, if any.	
	Acoustic enclosures should have been provided to		
G-21	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	There is no crusher unit in the	
	CPCB/KSPCB.	project site at presently.	
	The workers on the site should be provided with	The workers on the site are	Plate G-22; Workers with
G-22	the required protective equipment such as ear	provided with the required	protective equipment
	muffs, helmet, etc.	protective equipment such as ear	
		muffs, helmet, etc.	
	Garland drains with clarifiers to be provided in the	Strom water drains are provided	Plate G-23; Garland drains
G-23	lower slopes around the core area to channelize	within the project site to channelize	are provided
	storm water	the storm water to the storm water	_
		collection pond.	

G-24	The transportation of minerals should be done in covered trucks to contain dust emissions.	The transportation of minerals is done in covered trucks to contain dust emissions.	Plate G-24: 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.		
G-26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Not applicable	
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 specified and approved by the explosives department	Plate G-27: 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	scrupulously follows the directions contained	
G-29	100m buffer distance should be maintained from forest boundaries.	There is no forest area near the project site.	
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 (Consent No: PCB/RO-EKM/TSR/OL-805/17) Valid up to 31-12-2020	Annexure G-30; Attached Copy of the pollution certificate.

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	All other statutory clearances should be obtained,	Clearing are obtaining from;	
	as applicable, by project proponents from the	1.D& O License issued by the	1.Annexure G- 31(1);
G-31	respective competent authorities including that for	Porur Panchayath	attached Copy of D & O
	blasting and storage of explosives.	(License No; B2-1048/2020/2020-	License issued by by the
		21-18 issued by 21-04-2020 valid	Panjal Panchayath
		up to 31-12-2020)	A C 21(2)
		2. Explosive license issued by	Annexure G-31(2);
		Petroleum and Explosive safety	attached Copy of explosive
		Organization (formerly	license issued by the
		Department of Explosives) License	petroleum and Explosives
		(No. E/SE/KL/22/196(E110552) valid up to 31/03/2023	Safety Organization.
	In the case of any change in the scope of the	Shall be complied.	
	project, extent quantity, process of mining	Shan be complied.	
	technology involved or in any way affecting the		
	environmental parameters/ impacts as assessed,		
G-32	based on which only the E.C is issued. The		
G-32	projects would require a fresh appraisal by this		
	authority, for which the proponent shall apply and		
	get the approval of this Authority.		
	The Authority reserves the right to add additional	Shall be complied.	
	safeguard measures subsequently, if found		
	necessary, and to take action including revoking of		
G-33	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.		
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	Shall be complied.	
G-35	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.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.	Scrupulously follows the directions contained	Annexure No:-G35
	A copy of the clearance letter shall be sent by the proponent to concerned Grama Panchayat/	1. Copy of EC has been forwarded to the secretary of	
<u> </u>	District Panchayat/ Municipality/ Corporation/	Panjal Panchayath	

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G-36	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		
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 email) 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 follows the directions contained.	
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 details of the environmental clearance are prominently displayed with the specific conditions as per specifications mentioned in the condition. Sign board is also displayed showing lease area and boundaries at the entrance of the quarry.	Plate G-38, EC Display notice board
G-39	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions	Affidavit was submitted to DEIAA.	

	stipulated in the EC 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 modification in the mine shall be carried out without prior approval of the SEIAA, as applicable.	The conditions of SEIAA/ DEIAA are strictly followed	
G-42	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended places loading and unloading points & transfer point to reduce fugitive emissions.	Monitoring of Ambient Air Quality Result (hard copy) is attached. the documents showing the same is given annexure G-37.	Annexure G- 37; Attached Result of monitored data
G-43	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 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.	The temporarily stored topsoil used only for land reclamation and plantation. It is ensured that the dump site where over burdens are stored should maintained at 45° of slope. This entire excavated area back Filled and the monitoring and management of rehabilitated area is done unit the vegetation there become self-sustained	

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	Catch drains and siltation ponds of appropriate size	Mineral dumps and OB are	
G-44	shall be constructed around the mine working,	maintained at the working site, in	
	mineral and OB dumps to prevent run off of water	order prevent the runoff of water	
	and flow of sediments directly into the river and	and sediments into water bodies.	
	other water bodies. The water so collected should	The drains are desilted regularly.	
	be utilizing for watering the mine area. Roads,		
	green belt development t etc. the drains shall be		
	regularly desilted particularly after monsoon and		
	maintained properly.		
	Effective safeguard measures such as regular water	Effective safeguard measures are	
	sprinkling shall be carried out in critical areas	adopted in critical areas that are	
G-45	prone to air pollution and having high levels of	prone to air pollution. Ambient air	
	PM10 and PM2.5such as haul road, Loading and	quality according to the norms of	
	unloading points and transfer points-it shall be	CPCB are followed in loading –	
	ensured that the ambient air quality parameters	unloading points and transfer	
	conform to the norms prescribed by the central	points.	
	pollution control board in this regard.		
G-46	Fugitive dust emissions from all the sources should	There is a regular control on dust	
	controlled regularly. Water spraying arrangement	emission sources. Water spraying	
	on haul roads, loading and unloading and at	arrangements are properly	
	transfer points should be provided and properly	maintained	
	maintained		
G-47	Measures should be taken for control of noise	Measurements of noise levels are	
	levels below 85 dBA in work environment.	taken in the work environment.	
G-48	A separate environmental management cell with	The environmental management	
	suitable qualified personal should be set-up under	cell regularly report to the head of	

	the control of a senior Executiv, who will report	the organization.	
	directly to the head of the organization.	the organization.	
G-49	The funds earmarked for environmental protection measures and CSR activate should be kept in	The report of funds are regularly submitted to the DEIAA office	
	separate account and should be reported to the state		
	Environment Impact Assessment Authority		
	(SEIAA) office.		
G-50	The Regional Office of MOEF&CC Located at	The mentioned condition Is	
	Bangalore shall extend full cooperation to the	followed	
	officer (S) of the Regional Office by furnishing the		
	requisite data /information /monitoring reports		
G-51	Any appeal against this Environmental Clearance	There is no appeal against EC	
	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		
C 53	Act, 2010 Consorling the feetual data on submission of	Such a situation never come across	
G-52	Concealing the factual data or submission of false/fabricated data and failure to comply with any	Such a situation never come across	
	of the conditions mentioned above may result in		
	withdrawal of the this clearance and attract action		
	under the provisions of Environment		
	(protection)Act,1986		
G-53	The SEIAA may revoke or suspend the order, for	The conditions of SEIAA/DEIAA	
	non implementation of any of the specific or this	are strictly followed	
	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.		
G-54	The above conditions shall prevail not withstanding anything to the contrary in consistent ,or simplified, contained in any other permit, license on consent given by other authority for the same project .	The conditions of /SEIAADEIAA are strictly followed	
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 certificate from authorized pollution talking Centre .washing of all vehicles shall be inside the lease area '	Vehicles used within mines have PUC certificate and washing of the vehicles areas alone 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	Scrupulously follows the directions contained	

	lease area shall be carried out and reported in the six monthly reports to SEIAA.		
G-61	Occupational health surveillance program of the workers should be under taken periodically to observe any contractions due to exposure to dust	Scrupulously follows the directions contained	
	and corrective measures, if needed.		