

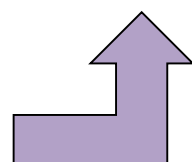
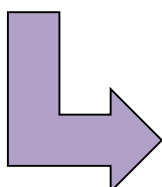
COMPLIANCE REPORT

April 2023 - September 2023

**M/sera Granites India
Private Limited**

EC Identification No. EC22A001KL117061

**KANNUR DISTRICT
KERALA**



SERA GRANITES INDIA PRIVATE LIMITED

CIN - U14100KL2017PTC049512

ST.ANTONY'S SHOPPING COMPLEX, KIZHAKKAMBALAM P O,
ERNAKULAM, KERALA, 683562

To,
The Scientist E,
MoEFCC (Impact Assessment Division),
Prithvi Block, Indira Paryavaran Bhawan
Jor Bagh Road, Aliganj
New Delhi - 110 003.

Dt. 29-01-2024

Ref 1. :- EC Identification No. EC22A001KL117061

Ref 2. :- File No. IA-J-11015/86/2021-IA-II (NCM)

Sub :- Quarry project of M/s Sera Granites India Pvt. Ltd is located at Re Survey nos. 25/1A (25/2308), 25/1A (25/2310) & others in Nediya Village, Sreekandapuram Municipality, Taliparamba Taluk, Kannur District, Kerala - submission of Six Monthly Compliance Report - First Half - Reg.

Respected Sir,

The Granite Building Stone mining project of **10.3274 Ha.** was obtained Environmental Clearance with **EC Identification No. EC22A001KL117061** dated 05.04.2022. The EC was issued by Ministry of Environment, Forest and Climate Change, New Delhi. As part of compliance towards the conditions stipulated in EC, the compliance report of **First half** (April 2023 - September 2023) to the specific and general conditions of the Environment Clearance order is being submitted.

Thanking you,

Yours respectfully,

For M/s Sera Granites India Pvt. Ltd**Mr. Peter Joseph****Copy to:-**

- 1. Regional Office of MOEFCC, Bangalore**
- 2. Central Pollution Control Board**
- 3. State Pollution Control Board.**



COMPLIANCE REPORT
TO
THE CONDITIONS
OF
ENVIRONMENT CLEARANCE ORDER

E C Identification No. EC22A001KL117061

File No. IA-J-11015/86/2021-IA-II (NCM)

Dated - 05-04-2022

FOR THE PERIOD OF
April 2023 – September 2023

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INTRODUCTION

Quarry project of M/s Sera Granites India Pvt. Ltd is located at Re Survey nos. 25/1A (25/2308), 25/1A (25/2310) & others in Nedyenga Village, Sreekandapuram Municipality, Taliparamba Taluk, Kannur District, Kerala. The Granite Building stone quarry project was accorded Environmental Clearance for **10.3274 Ha.** on 05-04-2022 vide **EC Identification No. EC22A001KL117061 and File No. IA-J-11015/86/2021-IA-II (NCM)** Ministry of Environment, Forest and Climate Change, New Delhi

The half yearly compliance report needs to be submitted as part of Miscellaneous condition No.3 of Environmental Clearance order by the project proponent. The compliance report to conditions of the Environmental Clearance for the period of **April 2023 – September 2023** (First half) is being submitted.

The quarry project started mining operation for extraction of minerals from 04-04-2023

COMPLIANCE REPORT

PART - A

SPECIFIC CONDITIONS

SPECIFIC CONDITION

01	Since the habitation is shown at 103 m from the lease boundary. Blasting should be controlled and single low blasting to avoid noise vibration impacts.	The project proponent (PP) has obtained necessary approvals from various Govt. Departments. The PP is using NONEL technology for blasting operations which reduces the impact on noise and vibration due to blating.
02	Monitoring of noise vibration and air quality at the lease boundary particularly in the direction of the habitation must be regularly done. The Check the efficacy of the proposed EMP shall be implemented.	The PP has engaged an accredited laboratory to Monitoring of noise and air quality at the lease boundary particularly in the direction of the habitation. The EMP proposed for the project is started to implement.
03	The EMP budget which is proposed to one year in capital should also be extended to concerns of people within one year of the start of the mine.	The PP can spend the EMP budget in connection with the concerns of people within one year of the start of the mine.
04	Strictly abide by the mining plan and shall not intersect ground water.	The PP is following the approved Mining Plan assigned for the project. The ground water will not intersect during the mining phase.
05	The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the	The project proponent monitors the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of

	directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.	village and submits the 6 monthly report to the IRO.
06	The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.	The restoration plan will be implemented with scientific methods. The PP will be done a concurrent restoration.
07	The Project Proponent should periodically monitor and maintain the health record of the mine workers digitally prior to mining operation at the time of operation of mine and post mining operations.	The PP will periodically monitor and maintain the health record of the mine workers digitally prior to mining operation at the time of operation of mine and post mining operations.

COMPLIANCE REPORT

PART – B

STANDARD CONDITIONS

I. STATUTORY COMPLIANCES

01	The Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme court of India, Hon.ble High Court, Hon'ble NGT and any other court of Law, Common cause conditions as may be applicable.	The PP will abide all orders/judgment of Hon'ble Supreme court of India, Hon.ble High Court, Hon'ble NGT and any other court of Law, Common cause conditions in connection with open cast mining
02	The project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No.114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	The project Proponent will be complied all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August 2017 in Writ Petition (Civil) No.114 of 2014 in matter of Common Cause versus Union of India & Ors.
03	The State Government concerned shall ensure that mining operations shall not be commenced till the entire compensation levied, If any, for illegal mining paid by the project Proponent through	The PP started the mining operation after obtaining all necessary approvals and licenses from all concerned authority, Board and various Govt. Department. The obtained approvals are annexed as 1 to 5.

	their respective Department of mining & geology in strict compliance of judgment of Hon'ble Supreme Court dated 2nd August 2017 in writ Petition (Civil) No.114 of 2014 in matter of common Cause versus Union of India & Ors.	
04	This Environmental clearance shall become operational only after receiving formal NBWL Clearance from MoEF & CC subsequent to the recommendations of the Standing committee of national Board for Wildlife, if applicable to the Project.	In the instant project the clearance from NBWL is not necessary
05	This Environment clearance shall become operational only after receiving formal Forest clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the project.	The instant project is in private own land, No forest land included in this project therefore Forest clearance is not necessary.

06	The Project proponent (PP) shall obtain consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to operate from the concerned State Pollution Control Board / Committee.	The project proponent has obtained consent to operate at PCB. The mining commenced after obtaining all necessary approvals and licenses including consent to operate from PCB.
07	The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of mines from time to time.	The project proponent adheres all necessary provisions of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. The PP will follow all necessary circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of mines from time to time.
08	The Project Proponent shall obtain consent from all the concerned land owners, before start of mining	To conduct mining, The PP has obtained consent from all the concerned land owners, before start of mining operations, as per the

	operations, as per the provisions of MMDR Act, 1957 and rule made there under in respect of lands which are not owned by it.	provisions of MMDR Act, 1957 and rule made there under in respect of lands which are not owned by it.
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09	The Project Proponent shall follow the mitigation measures provide in MoEF&CC's Office Memorandum No. Z-11013/57/2014-IA.II(M), dated 29th October 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects where Habitations and villages are the part of mine lease areas or Habitations and village are surrounded by the mine lease area"	The conditions stipulated in OM No. Z-11013/57/2014-IA.II(M), dated 29th October 2014, is being followed by the project proponent. All issues related to habitations and villages will be addressed by the PP in connection with mining plan.
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10	The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the Project.	Since the project is located in Kerala's safe zone, it is not necessary to take permission form CGWA. Further PP has developed a rain water harvesting pond near to the mine lease area. No permission is necessary to take surface water from their own pond.
11	A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.	The PP has submitted a copy of letter to the Local Self Government. No suggestion/ representation has been received while processing the proposal.
12	State Pollution Control Board / Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.	The Project Proponent has submitted a copy of EC at Office of State Pollution Control Board. District Industries centre and Collectors office.
13	The Project Authorities should widely advertise	The PP has advertised about the grant of this EC letter by printing

	about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board / Committee and web site of the Ministry of Environment, Forest and climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEF&CC Regional Office for compliance and record.	the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. A copy of the newspaper advertisement is attached as Annexure No.6.
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14	The Project Proponent shall inform the MoEF & CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining	There is no plan to change the ownership of the project. To change the ownership the PP will follow the procedure.
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	operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	
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II. AIR QUALITY MONITORING AND PRESERVATION

01	The Project Proponent shall install a minimum of 3 (Three) online ambient Quality Monitoring Stations with 1(One) in upwind and 2 (Two) in downwind direction based on long term Climatological data about wind direction such that an angle 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10 , PM2.5 , NO ₂ , CO and SO ₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the	To monitor various parameters of ambient Air, the PP engaged an approved laboratory to monitor the ambient air quality with 1(One) in upwind and 2 (Two) in downwind direction. The results of parameters are prominently displayed at the gate of the company.
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	aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be mentioned at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 3 months in front of the main Gate of the mine site.	
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02	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required	The project proponent has provided adequate safeguard measures for prevention of dust generation in the project site which are follows. 1. Installation of permanent sprinklers 2. Deploy tanker vehicles as mobile sprinkler unit 3. Construction of metaled road 4. Development of Green belt 5. Enclosed vehicles and machineries 6. Dust mask to all labours 7. Wetting before and after the blast. Etc.
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	equipments/machineries and preventive maintenance. Use of suitable water- soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.	
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III. WATER QUALITY MONITORING AND PRESERVATION

01	In case, immediate mining scheme envisages intersections of ground water table, then environment Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEF&CC is in place before such mining	In the instant project there is no intersection of ground water table envisages in mining plan. If the ground water intersects during the course of operation, the PP will follow the necessary procedure.
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	operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.	
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02	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The water Table should be nurtured so as not to go down below the pre- mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the village for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table .The	There are no springs and perennial nallahs flowing in and around the mine lease area. The natural water bodies or streams which are flowing in an around the village, does not disturbed. The PP will provide water to the nearby village people during water scarcity time. The PP has identified an observation well to monitor the ground water change and same will be incorporated in the Half Yearly Compliance Report.
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	Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the ministry , CGWA and State Groundwater Department/State Pollution Control Board.	
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03	Project Proponent shall regularly monitor and maintain records w.r.t ground water level and quality in and around the mine lease by established a network of existing wells as well as new piezo-meter installation during the mining operation in consultation with Central Ground water Authority / State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry , CGWA and State Groundwater Department / State Pollution	The project Proponent has established a network of existing wells to observe the ground water changes. A new piezo- meter will be installed in consultation with ground water department.
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	Control Board.	
04	The project Proponent shall undertake regular monitoring of natural water course/water resources/springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The Project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby / adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places with in the lease for management of water. PP shall carryout regular monitoring w.r.t pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no	There is no natural water course/water resources/springs and perennial nallahs existing/ flowing in and around the mine lease area. Sufficient number of gullies is being provided at appropriate places with in the lease for management of water.

	obstruction and / or alternation be made to water bodies during mining operations without justification and prior approval of MoEF&CC. The monitoring of water courses/bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	
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05	Quality of polluted water generated from mining operations which include	The EC obtained mine is for extraction Granite building stone by blasting under the supervision of
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	chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with total suspended solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No.J-20012/1/2006-1A.11(M) dated 27.05.2009 issued by Ministry of environment, Forest and Climate Change may also be referred in this regard.	qualified persons. Therefore there will be no water included with COD generated from the Mine lease area. All storm water runoff is being channelised through constructed drains along with de siltation traps to a settling pond and rain water harvesting pond. Only cleared water is letting out side from the project site.
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06	project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central	The project proponent has developed a rain water harvesting pond near to the mine lease area. A new one will be developed at the down side of lower contour of mine lease area. A report in this regard will be submitted at regional office
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	Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	of MoEFCC annually along with the compliance report.
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07	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	The instant project is for extraction of miner minerals. There will be no industrial waste water from the project site. The waste water generated from the mine lease area during monsoon season will be treated with de siltation traps and settling ponds.
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08	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the	The water balance/water auditing is being carried out and measure for reducing the consumption of water will be taken up and reported to the regional office of MOEFCC.
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	MoEF & CC and State Pollution Control Board/Committee.	
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IV. NOISE AND VIBRATION MONITORING AND PREVENTION

01	The peak particle velocity at 500M distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	The PP will monitor the peak particle velocity at nearest habitation periodically during blasting operation.
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02	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed, by orienting the	There is no mining operation during night time. The mining operation is being carried out in between 7am to 6pm
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	floodlights/masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours.	
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03	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM etc. should be provided with ear plugs/muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information or safety and health aspects. The PP shall be held responsible in case it has been found that workers/personals/laborers are working without personal protective equipment.	The Project Proponent has provided adequate personal protective Equipment's to the labours engaged in the work such as mask, earplug, glow, google, helmet etc. Further the PP will provide adequate training on health and safety to the labours in consultation with Government Departments and experts.
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V. MINING PLAN

01	The project proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B. & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to	The project proponent is being followed the mining plan for the extraction of minerals which was submitted at the time of appraisal. Mining technology and volume of minerals to be extracted will not change. If there is change, the PP will get approval of MOEF&CC for the same.
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	Short Term Permit (STP), Query license or any other name.	
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02	The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act 1957 and Rules/Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate change for record and verification.	The PP will get final mine closure plan along with financial assurance approved from Department of Mining and Geology. The copy of final mine closure plan will be submitted at regional office of MoEFCC within two months after approval of the mine closure plan. The instant project is started its mining operation in this reporting period.
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03	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved	The Project proponent is being followed the approved mining plan. The excavation, backfilling, afforestation at reclaimed area will be as per the approved mining plan.
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	Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.	The PP will provide continuous monitoring and management until vegetation becomes self-sustaining. This is being updated in the half yearly compliance report.
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VI. LAND RECLAMATION

01	The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as	The overburden generated during mining operation is being stacked at earmarked OB area. The physical parameters of the OB dumps like height, width and angle of slope will be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S. The top soil and OB will be used for land reclamation and
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	per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S. w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.	plantation. The PP will plant various grasses and vegetation on the OB dump for its stabilisation.
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02	The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved mining plan as per the guidelines/circular issued by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.	The reject/waste generated during the mining operations will be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved mining plan as per the guidelines/circular issued by DGMS. The PP will plant various grasses and vegetation on the OB dump for its stabilisation.
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03	The reclamation of waste dump sites shall be done in scientific manner as per the	The reclamation of waste dump sites will be done in scientific manner as per the Approved Mining
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	Approved Mining Plan cum Progressive Mine Closure Plan.	Plan cum Progressive Mine Closure Plan.
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04	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling/leveling of dump mass, In critical areas, use of geo textiles/geo membranes/clay liners/Bentonite etc. shall be undertaken for stabilization of the dump.	To prevent sliding and erosion from dump, the slope of dumps will be vegetated in scientific manner with suitable native species to maintain the slope stability. AS part of stability of dump, the PP will be done the following measures. 1. Construction of proper drainages, 2. Stabilize the dump by planting grass, shrubs and tree saplings 3. Consolidation of loose soil 4. Avoid gullies at sensitive areas. 5. Proper leveling and filling of dump mass. 6. Use of geotextile 7. Maintain proper height and slope etc
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05	The project proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF & CC.	The PP will carry out the slope stability study in case the dump height is more than 30 meters and report will be submitted at concerned regional office of MoEF & CC.
06	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and top soil/OB/waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/River/Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	As part of storm water management rain water runoff from the mine lease area, the PP will construct Catch drains, settling tanks and siltation ponds of appropriate size. The PP will construct settling pond and rain water harvesting pond in and around the project site. This water will be used form watering the mine area, roads, green belt development, plantation etc. Only de silted water/ clear water will be let out from the project site.

07	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall(based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to storm run-off and sediment flow into adjoining water bodies.
08	The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the top soil dumps like height, width and	The top soil will be stored at earmarked area as per the approved mining plan. This will be used for reclamation of mined out area in future until then this will be preserved as stabilised dump with various measures to prevent sliding and erosion.

	angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.	
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VII. TRANSPORTATION

01	No transportation of the minerals shall be allowed in case of roads passing through villages/habitations. In such cases, PP shall construct a bypass road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing	The PP can use existing public road for the transportation of minerals. Most of the house are being constructed at either side of the roads in Kerala. No truck is operated during night time. The carrying capacity of the road will be considered and regulated the number of trucks accordingly. Water sprinkler has installed to arrest the dust emission. All vehicles is bring gone under the monitoring to get PUC. The maintenance of public road used for the transportation of materials will done by the project proponent.
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	public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centres.	
02	The Main haulage road within the mine lease should	To suppress the dust generating from the haulage road the PP has

be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.	installed permanent water sprinkling arrangement, other roads are being wetted by a mobile sprinkler unit (Vehicle). The belt conveyor is fully covered to avoid generation of dust while transportation. The other areas of dust generation like crushing zone, material transfer points, material yards etc. are provided with dust suppression arrangements.
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VIII. GREEN BELT

01	The Project Proponent shall develop greenbelt in 7.5M wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	The PP is started to develop a greenbelt in 7.5 M wide safety zone all around the mine lease boundary. The whole Green belt will be developed within first 5 years starting from windward side of the active mining area.
02	The Project Proponent shall carryout plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State	As part of eco restoration, the PP will carry out plantation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest department / Agriculture Department.

	Forest department / Agriculture Department / Rural Development Department / Tribal Welfare Department / Grama Panchayath such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare Adequate budgetary provision shall be made for protection and care of trees.	
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03	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the	There is no grazing land in the proposed mine lease area.
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	directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/protected against felling and plantation of such trees should be promoted.	
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04	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.	The project proponent has conducted a bio diversity assessment as part of obtaining EC. In this assessment no endangered flora and fauna and Schedule-I species is found from the proposed project site.
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05	And implemented in consultation with the State Forest and Wildlife department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.	In this assessment no endangered flora and fauna and Schedule-I species is found from the proposed project site.
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IX. PUBLIC HEARING AND HUMAN HEALTH ISSUES

01	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking etc. The check-ups shall be undertaken once in six months and necessary	As per the DGMS guideline, the PP will conduct medical examination of all labours working in the mine. The PP will also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking etc. The check-ups shall be undertaken once in six months and necessary remedial/preventive measures will be taken. A status report on the same will be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
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	remedial/preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.	
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02	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighbourhood has to focus on public Health Problems like Malaria. Tuberculosis, HIV, Anemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The	The Project Proponent will demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years. The proponent will also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene.
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	proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene. Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	
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03	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray Chest, For Noise Audiometric; for Lead Exposure Blood Lead For Welders Full Ophthalmologic Assessment for Manganese Miners a complete Neurological Assessment by a Certified	The PP will conduct Occupational health surveillance which be a part of HRA. Except routine tests all tests would be carried out in a Lab accredited by NABH, Records of Health Surveillance must be kept for life of mine, including the results and the records of Physical examination and tests.
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Neurologist, and Manganese (Mn) Estimation in Blood, For Inorganic Chromium. Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH, Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record	
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	purposes and not the digital one). X-Ray must meet ILO criteria (17x14 inches and of good quality).	
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04	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 – 24.09 (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities (c) At the end of their leaving job there should be no Diminution in their Lung Functions forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have	The PP will maintain a record of performance indicators for workers which includes Body Mass Index, Final Chest X-Ray, and other mentioned in the condition.
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	developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.	
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05	The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	The project proponent has ensured and provided all necessary protective equipment of labours. Training and information on safety and health aspects.
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06	Project Proponent shall make provision for the housing for workers/labours or shall construct labour	The PP will make provision for the housing for workers/labours or shall construct labour camps within/outside (company owned
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	camps within/outside (company owned land) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	land) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, etc.
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07	The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to	The action plan prepared for addressing the issues raised during public hearing will be implemented within the time frame.
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	the concerned Regional Office of the Ministry along with District Administration.	
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X. CORPORATE ENVIRONMENT RESPONSIBILITY (CER)

01	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M. No.22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF & CC annually along with audited statement.	The proof of CER is being submitted along with Half Yearly Compliance Report. The PP has spend 3,15,000 under CER in line with the OM No.22-65/2017-IA. II (M) dated 01.05.2018. The bank statement and receipt is attached as Annexure No.7
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XI. MISCELLANEOUS

01	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF & CC.	The Project Proponent will prepare digital map (land use & land cover) of the entire lease area once in five years
02	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	The Project Authorities will inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
03	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEFCC & its concerned Regional Office. Central Pollution Control Board and	The PP is being submitted six monthly compliance report on the status of the implementation of the stipulated environmental safeguards along with monitored data of Air, Noise and water to the MoEF&CC and its concerned Regional Office, Central Pollution Control Board and State Pollution

	State Pollution Control Board.	Control Board. The copy of Monitored data is attached as Annexure No.8,9&10
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04	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MOEFCC.	A separate 'Environmental Management Cell' with suitable qualified manpower has set-up under the control of a Senior Executive.
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05	The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.	The project authorities will extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports during their inspection or when they asking for.
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06	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	The condition is noted for compliance.
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07	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act 1986.	The PP does not conceal any data to obtain Environmental Clearance. All data submitted for appraisal was true.
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08	The above conditions will be enforced inter-alia, under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public	In addition to the conditions stipulated in the EC all other relevant Acts, Rules, notification, and court order will be followed.
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	Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court of Rajasthan and any other Court of Law relating to the subject matter.	
09	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 the EC at NGT till date.
10	This issues with the approval of Competent Authority.	Noted.

ANNEXURE

Annexure No.1

FILE NO : PCB/KNR/ICO/R22KAN20762/2022

Date of issue : 17/05/2022



KERALA STATE POLLUTION CONTROL BOARD

CONSENT TO

OPERATE/AUTHORISATION/REGISTRATION

ISSUED UNDER

The Water (Prevention & Control of Pollution) Act, 1974

The Air (Prevention & Control of Pollution) Act, 1981

and

The Environment (Protection) Act, 1986

As per Application No. :17663307

Dated:13-04-2022

TO

M/s SERA GRANITIES INDIA PRIVATED LIMITED

SERA GRANITIES INDIA PRIVATED LIMITEDPAYATTUCHAL,P.O.CHEMPERI,KANNUR-670682

Consent No. :PCB/KNR/ICO/216/2022

Valid Upto :31/03/2027

1. GENERAL

1.1. This integrated consent is granted subject to the power of the Board to withdraw consent, review and make variation in or revoke all or any of the conditions as the Board deems fit.

1	VALIDITY	31/03/2027
2	Name and Address of the establishment	SERA GRANITIES INDIA PRIVATE LIMITED PAYATTUCHAL,P.O.CHEMPERI,KANNUR- 670682 670682
3	Communication	Telephone :91-9447080722 Fax :- E-mail:JPGROUPOFCOMPANIES@YAHOO.IN
4	Occupier Details	PETER JOSEPH,PUNHCAPUTHUSSERY, THURUTHUKARA,KIZHAKKABALAM.P.O,ER ANAKULAM-683562
5	Local Body	SREEKANDAPURAM
6	Survey Number	25/1A(25/2308),25/1A(25/2310),25/1A(2309)
7	Village	NEDIYANGA
8	Taluk	THALIPARAMBU
9	District	KANNUR
10	Capital Investment(Rs in Lakhs)	972.75L
11	Scale	Medium
12	Category	RED
13	Annual fee(Rs)	70000
	Total Fee remitted(Rs)	70000
14	RAW MATERIAL	PRODUCTS
	ROCK @2450 Metric Tonnes	Quarrying area - 10.3274 Hectare BOULDER @2450 Metric Tonnes
15	Total Power Required (HP)	NIL

2. CONDITIONS AS PER**The Water(Prevention and Control of Pollution)Act, 1974**

- 2.1 In case of generation of trade effluent from the industry, effluent treatment system consisting of treatment units having adequate capacity established as per the Integrated Consent to Establish issued shall be operational at all times during which the industry is functional. Additional facilities required, if any, to achieve the standards laid down by the Board u/s 17(1) (g) of the Water Act shall also be made along with.
- 2.2 Water consumption: 200L/D
- 2.3 Effluent generation:
- 2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

Sl.NO.	Characteristics	Unit	Tolerance Limit	
			Sewage	Trade Effluent

2.5 Mode of disposal of treated effluent: No Trade Effluent Generated

3. CONDITIONS AS PER

The Air(Prevention and Control of Pollution)Act, 1981

3.1 Adequate air pollution control measures shall be operational at all times during the functioning of the industry. Additional facilities required, if any, to achieve the standards laid down by the Board shall also be made along with.

Stack No.	Sources of Emission	Emission Rate(Nm ³ /Hr)	Stack Height above		Control Equipment
			Ground Level	Roof Level	

3.2 Emission characteristics shall not exceed the following:

SI.No.	Parameter	Limiting Standards (mg/Nm ³)
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4. CONDITIONS AS PER

The Environment (Protection) Act, 1986.

4.1 The operation of the industry shall be strictly in compliance with the provisions of the Noise Pollution (Regulation and Control) Rules 2000.

4.2 Used lead acid batteries shall be disposed of as per the Batteries (Management and Handling) Rules, 2001

4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

4.3.1 Activities for which Authorisation is granted

Collection		transport	
Reception		Storage	
Treatment		Reprocessing/Disposal	

4.3.2 Type, quantity and mode of storage/collection/disposal of hazardous wastes shall be as follows:

SI.No.	Hazardous Waste	Schedule Category	Quantity Tonne/year
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Mode of	
Storage	Disposal

4.4 E-waste shall be disposed off safely as per the E-Waste (Management)Rules, 2016.

5. SPECIFIC CONDITIONS

5.1 The location of the industry/out let shall be as per the approved drawing attached. No change or alteration or expansion of the unit is to be made without the prior permission of the Board. Any change in the particulars furnished in the application and/or in the identity of the occupier/authorized agent is to be intimated to the Board forthwith.

5.2 For renewal of the Consent to Operate in case of continuance of operation of the quarry, application in the prescribed form shall be submitted through the web portal of the Board for Online Consent Management & Monitoring System 2 months prior to the date of expiry. Late application will be accepted only with fine.

5.3 The consent issued from the board is only with respect to the powers vested under the Water (prevention and control of pollution) Act 1974, Air(prevention and control of pollution) Act 1981 and the Rules there under. The operation of the quarry shall be commenced only after obtaining clearances from all concerned Authorities.

5.4 This consent will be valid only when the Environmental Clearance obtained for the quarry is valid.

5.5 There shall not be any quarrying activity between 6 pm to 6 am.

5.6 The suspended particulate matter (PM 10) in ambient air at the boundary of the quarry shall not exceed 100 microgram/m³

5.7 The suspended particulate matter (PM 2.5) in ambient air at the boundary of the quarry shall not exceed 60 microgram/m³

5.8 The sound level (Leq) at 1 m outside the boundary of the site should not exceed the ambient noise Standard applicable to the adjoining areas.

5.9 The applicant shall provide adequate facilities to conduct ambient air and sound monitoring as noted in condition 5.6 to 5.8.

5.10 Periodical monitoring of ambient air. and sound shall be conducted by the applicant and the report shall be submitted to the District office of the Board once in a year.

4.4 E-waste shall be disposed off safely as per the E-Waste (Management) Rules, 2016.

Page 5

5.11 The applicant shall put up a sign board of size 6ft x 4ft. near the main entrance of the quarry. The board shall display the name of the industry and important consent conditions

DATE :18/05/2022

SIGNATURE & SEAL OF ISSUING AUTHORITY
ENVIRONMENTAL ENGINEER



To

Page 4

Copy of PCB

Annexure No.2



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The MD

M/S SERA GRANITES INDIA PRIVATE LIMITED

Mr. Peter Joseph, Managing Director, M/s Sera Granites India Private Limited, 3/546 V, St. Antonys Shopping Complex, Kizhakkambalam P.O., Ernakulam, Kerala, Ernakulam, Kerala-683562

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/KL/MIN/230373/2020 dated 21 Sep 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC22A001KL117061 |
| 2. File No. | IA-J-11015/86/2021-IA-II(NCM) |
| 3. Project Type | New |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 1(a) Mining of minerals |
| 6. Name of Project | Building Stone Mine (Minor Mineral) Quarry Project situated at Re-survey nos. 25/1A (25/2308), 25/1A (25/2310) & others in village-Nediyenga, Sreekandapuram Municipality, Taluk-Taliparamba, Distri |
| 7. Name of Company/Organization | M/S SERA GRANITES INDIA PRIVATE LIMITED |
| 8. Location of Project | Kerala |
| 9. TOR Date | 03 Feb 2020 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 05/04/2022

(e-signed)
 Pankaj Verma
 Scientist E
 IA - (Non-Coal Mining sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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IA-J-11015/86/2021-IA-II (NCM)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

2nd Floor, Prithvi Block
 Indira Paryavaran Bhawan
 Jor Bagh Road, Aliganj
 New Delhi-110 003
 Date: 5th April, 2022

To

M/s Sera Granites India Private Limited
 3/546 V St. Antony's Shopping Complex
 Kizhakkambalam P.O., Ernakulam – 683 562
 Kerala

Sub: Proposal for Environmental Clearance for Building Stone Mine Quarry Project of M/S Sera Granites India Private Limited over an area of 10.3274 ha with total production capacity of 92,48,683 MT (ROM) [building stone 88,82,293 MT, overburden 1,29,830 MT and top soil 59,012 MT] situated at re-survey no.25/1A (25/2308), 25/1A (25/2310) & others in Village Nediyyenga, Sreekandapuram Municipality, Taluk Taliparamba, District Kannur, State Kerala- reg.

Sir,

This has reference to the proposal no. IA/KL/MIN/230373/2020 for Environmental Clearance for Building Stone Mine (Minor Mineral) Quarry Project of M/S Sera Granites India Private Limited over an area of 10.3274 Hectares with total production capacity of 92,48,683 MT (ROM) [Building stone 88,82,293 MT, overburden 1,29,830 MT and top soil 59,012 MT] situated at Re-survey nos. 25/1A (25/2308), 25/1A (25/2310) & others in Village Nediyyenga, Sreekandapuram Municipality, Taluk Taliparamba, District Kannur, State Kerala.

EAC Meeting	47 th EAC Meeting
Date of Meeting	7 th to 9 th March 2022

The mine lease area is located between Latitude 12°05'09.88" to 12°05'28.12" N and Longitude 75°31'14.19" to 75°31'25.67" E. The mine lease area falls in 48P/12 toposheet and Seismic Zone III. The EIA consultant is M/s Environmental Engineers & Consultants Pvt. Ltd. The category of the project is Category "B", Project or Activity 1(a) – 4 for Mining of Mineral as per EIA Notification S.O. 1533 (E), dated 14th September

Rankey
 M/s Sera Granites India Pvt. Limited, Kerala

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2006 and subsequent amendments. SEIAA, Kerala has been constituted on 3rd March 2022, however, as per the Ministry's O.M. dated 23rd October 2017, "In cases, the proposal is appraised by the EAC due to non-existence of SEIAA/SEIAC, then irrespective of whether recommended, deferred or additional information sought, it will continue to be appraised and decided at the central level, even if the SEIAA/SEIAC is constituted later on."

2. Tenure of SEIAA/SEAC, Kerala got completed on 18.09.2021 due to which the project proponent made an online application vide proposal no: IA/KL/MIN/230373/2020 dated 21-09-2021 for Environmental Clearance. The proposed quarry project for obtaining Environmental Clearance is for mine lease area of 10.3274 hectares with targeted annual production capacity of 9,00,000 MT with life of mine as 10 years. Earlier the proposal for Environmental Clearance was considered in the 41st EAC meeting held during 15th – 16th November and 18th November, 2021. After detailed deliberations, the Committee noted that the project proponent has not submitted the authenticated District Survey Report as per Ministry's Notification S.O 3611(E) dated 25.07.2018. As per 2018 Notification "The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects". Therefore, the Committee deferred the proposal. The project proponent needs to submit the above information on Parivesh Portal. The project proponent submitted the reply on 15.02.2022. The project proponent submitted the Hon'ble High Court, Kerala order vide WP(C) NO. 4875 OF 2022 dated 14/02/2022. The relevant extract is produced below:

"this writ petition is also disposed of, directing the 2nd respondent to consider and pass orders on the application submitted by the petitioner for Environmental Clearance which is referred to in Exhibit P2, on the basis of DSR 2016 issued by the Department of Mining and Geology, Government of Kerala, which has been certified to confirm with Notification No.S.O.3611(E) dated 25.07.2018. Appropriate steps shall be taken within a period of one month from the date of receipt of a copy of this judgment."

3. The project proponent submitted that ToR was approved by SEAC, Kerala in its 112th Meeting held on 12-14th August, 2020. Based on the ToR, EIA study was conducted by accredited consultancy organization (ACO), accredited under QCI/NABET Scheme (ACO: M/s Environmental Engineers & Consultants Pvt. Ltd., New Delhi) in the month of March (2020), April (2020), May (2020) and March (2021) & April (2021) and the draft EIA report was prepared. The draft EIA report was submitted at Kerala Pollution Control Board (KSPCB) for conduction of public hearing. It was conducted on 10.03.2021 under the Chairmanship of the Additional District Magistrate, Kannur at Collectorate Auditorium, Kannur by as procedure stated in the EIA Notification, 2006. PP submitted the Pre-feasibility report. The Mining plan was approved by the District Geologist, Mining & Geology Department, Govt. of Kerala vide letter dated 09 Dec 2019.

M/s Sera Granites India Pvt. Limited, Kerala

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		sprinkler system			
		Plantation on road side-3m interval and buffer zone – 3m interval plus maintenance	5.0	1.0	Re-plant the non-surviving plants, watering and protection from animals.
		Regular cleaning of paved roads,	0.1	3.0	Two workers daily
		Construction of speed controllers	0.5	0.1	Construction cost of speed breakers
		Asphalting of roads and its maintenance	25.0	2.0	-
		Sub-Total	45.8	13.7	
2	Noise & vibration Pollution	Maintenance of machinery suitably	8	4	Included in maintenance cost
		PPE's like Ear muffs	2	1	Once in six months
		Acoustic enclosure for DG set	3	0.5	-
		Blasting siren and notice boards	2	0.2	-
		Sub-Total	15	5.7	
3	Water Pollution	Construction of garland drains with intermittent siltation traps (storm water management)	10	4	Once only for the lease period /life of mine.
		De-silting operations	5	2	Yearly and manual operation
		Construction of ponds (rain water harvesting)	10	2	Once in year, cost incurred is to buy sand bags and filling sand. and de-siltation
		Construction of retaining wall for waste dump in slope side	4	2	Cost of construction of wall around the dip side of the dump.
		Sub Total	29	10	
4	Occupational Safety and Health	First aid kits – 2 nos. Fire extinguishers-2 nos.	2	1	Once in year, replace by conducting periodically check-up
		Training and awareness programs on risk	2	3	Once in six months and create sign boards about

M/s Sera Granites India Pvt. Limited, Kerala

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4. The project proponent submitted that the Letter of Intent was granted vide letter no. 7016/M3/2019 dated 29.10.2019. The project proponent submitted the LOI extension letter dated 09.01.2022. PP submitted that the mining plan was approved vide letter no. DOC/M-1302/2019 dated 09.12.2019 for about 10 years. The project proponent submitted that the total excavation will be 88, 82,293 MT (Mineable Reserve) wherein production capacity of building stone will be 9,00,000 MTA, total top soil production will be 59,012 MT and total waste will be 1,29,830 MT. The PP submitted the EIA/EMP report on 21.09.2021.

5. The project proponent submitted that the method of mining will be opencast with multiple blast holes of 1.5 to 2.5 m depth will be drilled with the help of 32 mm drill rod, Jack Hammer and Air Compressor of 100 cfm capacity. The controlled blasting through "NONEL" blasting technique using Nitrate Mixture as explosive is proposed by adopting all the safety measures. Bench height will be 5 m and bench width will be 5 m. Individual bench slope will be 72° and overall pit slope will be 45°. About 10 years is the life of mine. Vehicles will be engaged for transfer of mined out material and about 25 trips of 15 T capacity tipper / dump will be utilized for transporting the mineral on per hour basis. The mine lease area of 10.3274Ha is the private land.

6. The project proponent submitted that the daily water demand will be about 22 KL wherein 7 KLD for domestic purposes, 10 KLD for dust suppression in mine and 5 KLD for plantation purposes. Source of water will be open well & stored rain water in pond. Proposed area for green belt/plantation will be 1.0 ha. The budget for plantation of 8,300 trees is Rs. 91.30 Lakhs.

7. Details of EMP:

Sr. No.	Description	Item	Capital Cost	Recurring Cost	Remarks
			(Rs. In Lakhs)		
1.	Air Pollution	Personnel Protective Equipments (PPE) to mine workers	6	2	Safety shoe twice in a year, helmets once in three years and hand gloves (daily). ear plugs, safety goggles
		Uniform for mine workers	0.4	0.2	Issued six monthly
		Blast mats	0.8	0.4	As and when needed (L/S)
		Wetting of roads (paved and unpaved) and	8.0	5.0	Water tanker cost @one tanker per day for 300 days.

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		factors during emergencies by the experts.			the risk and safety precaution regularly.
		Periodical medical check-up and supply of medicines	4	4	Once in a year and supply of medicines for every three months.
Sub Total			8	8	
5	Ecological Environment	- Green Area development in buffer of mine lease area. - Saplings of trees in mine lease area will be transplanted to land outside mine lease area owned by PP. - Development of medicinal garden own land outside mine lease area owned by PP.	85.0	3	8,300 tree plantation @ Rs. 1100/-
Sub Total			85.0	3	
6	Environmental monitoring	Ambient Air Quality study	-	0.48	Will be done through MoEF&CC / NABL recognized laboratories (ambient air, noise, soil & water) & by approved experts of Accredited environmental consultancy organization (Hydrogeology, Ecological & Socio-economic assessment).
		Noise and vibration studies	-	0.942	
		Soil studies	-	0.1	
		Water quality studies	-	0.32	
		Hydrogeology	-	0.1	
		Ecology assessment	-	0.25	
		Socio-economic assessment	-	0.2	
Sub Total			-	2.392	
GRAND TOTAL			182.8 say 183	40.4 say 41	



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8. The project proponent submitted that total Cost for EMP is 1.83 crore and recurring cost is 0.40 crore. The project cost is Rs. 11.95 crores and manpower requirement is 50 persons.

9. **Observation and Recommendation of the Committee:**

The proposal for Environmental Clearance was considered in the 47th EAC meeting held during 7th to 9th March 2022. After the detailed deliberations, the Committee **recommended** the proposal for Environmental Clearance of Building Stone Mine (Minor Mineral) Quarry Project of M/s Sera Granites India Private Limited over an area of 10.3274 Hectares with total production capacity of 92,48,683 MT (ROM) [Building stone: 88,82,293 MT, overburden: 1,29,830 MT and top soil: 59,012 MT] situated at Re-survey nos. - 25/1A (25/2308), 25/1A (25/2310) & others in Village-Nediyenga, Sreekandapuram Municipality, Taluk Taliparamba, District- Kannur, State-Kerala subject to the compliance of certain Specific conditions in addition to all Standard conditions applicable for non-coal mining projects.

10. The Ministry has examined the proposal in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto; and after accepting the recommendations of 47th EAC meeting held during 7th to 9th March 2022 hereby accords the Environmental Clearance of building stone mine quarry project of M/s Sera Granites India Private Limited over an area of 10.3274 ha with total production capacity of 92,48,683 MT (ROM) [building stone 88,82,293 MT, overburden 1,29,830 MT and top soil 59,012 MT] situated at re-survey nos. 25/1A (25/2308), 25/1A (25/2310) & others in Village Nediyenga, Sreekandapuram Municipality, Taluk Taliparamba, District Kannur, State Kerala along with the following specific conditions and standard conditions subject to compliance of conditions and environmental safeguards mentioned below:

A. Specific conditions

- (i) Since the habitation is shown at 103 m from the lease boundary, blasting should be controlled and single low blasting to avoid noise vibration impacts.
- (ii) Monitoring of noise vibration and air quality at the lease boundary particularly in the direction of the habitation must be regularly done. To check the efficacy of the proposed EMP shall be implemented.
- (iii) The EMP budget which is proposed to one year in capital should also be extended to addressing concerns of people within one year of the start of mine.
- (iv) Strictly abide by the mining plan and shall not intersect ground water.
- (v) The project proponent shall continue to monitor the air quality, noise quality at the edge of the mine in all the directions besides specific station in the direction of village and submit the 6 monthly report to the IRO.



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- (vi) The restoration plan submitted has to be augmentation by using scientific methods as suggested by the expert members.
- (vii) The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations.

B. Standard conditions

I. Statutory compliance

- (1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- (2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.
- (3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- (4) This Environmental Clearance shall become operational only after receiving formal NBWL Clearance from MoEF&CC subsequent to the recommendations of the Standing Committee of National Board for Wildlife, if applicable to the Project.
- (5) This Environmental Clearance shall become operational only after receiving formal Forest Clearance (FC) under the provision of Forest Conservation Act, 1980, if applicable to the Project.
- (6) Project Proponent (PP) shall obtain Consent to Operate after grant of EC and effectively implement all the conditions stipulated therein. The mining activity shall not commence prior to obtaining Consent to Establish / Consent to Operate from the concerned State Pollution Control Board/Committee.
- (7) The PP shall adhere to the provision of the Mines Act, 1952, Mines and Mineral (Development & Regulation), Act, 2015 and rules & regulations made there under. PP shall adhere to various circulars issued by Directorate General Mines Safety (DGMS) and Indian Bureau of Mines from time to time.
- (8) The Project Proponent shall obtain consents from all the concerned land owners, before start of mining operations, as per the provisions of MMDR Act, 1957 and rules made there under in respect of lands which are not owned by it.
- (9) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA-II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects

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wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area”.

- (10) The Project Proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of surface water and from CGWA for withdrawal of ground water for the project.
- (11) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- (12) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.
- (13) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.
- (14) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

- (1) The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO₂, CO and SO₂ etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.
- (2) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The

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water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

- (5) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J- 20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.
- (6) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.
- (7) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.
- (8) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

- (1) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.
- (2) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the

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Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

- (1) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
- (2) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (3) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- (4) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their

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biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

- (3) The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.

V. Mining plan

- (1) The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc.. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.
- (2) The Project Proponent shall get the Final Mine Closure Plan along with Financial Assurance approved from Indian Bureau of Mines/Department of Mining & Geology as required under the Provision of the MMDR Act, 1957 and Rules/ Guidelines made there under. A copy of approved final mine closure plan shall be submitted within 2 months of the approval of the same from the competent authority to the concerned Regional Office of the Ministry of Environment, Forest and Climate Change for record and verification.
- (3) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation



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top soil dumps like height, width and angle of slope shall be governed as per the approved Mining Plan and as per the guidelines framed by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of dumps. The topsoil shall be used for land reclamation and plantation purpose.

VII. Transportation

- (1) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers.
- (2) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

- (1) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.
- (2) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in


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- (1) The Overburden (O.B.) generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by D.G.M.S w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of top soil/OB dumps. The topsoil shall be used for land reclamation and plantation.
- (2) The reject/waste generated during the mining operations shall be stacked at earmarked waste dump site(s) only. The physical parameters of the waste dumps like height, width and angle of slope shall be governed as per the approved Mining Plan as per the guidelines/circulars issued by DGMS w.r.t. safety in mining operations shall be strictly adhered to maintain the stability of waste dumps.
- (3) The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.
- (4) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.
- (5) The Project Proponent shall carry out slope stability study in case the dump height is more than 30 meters. The slope stability report shall be submitted to concerned regional office of MoEF&CC.
- (6) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.
- (7) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.
- (8) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The physical parameters of the

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community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

- (3) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.
- (4) The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.
- (5) And implemented in consultation with the State Forest and Wildlife Department. A copy of Wildlife Conservation Plan and its implementation status (annual) shall be submitted to the Regional Office of the Ministry.

IX. Public hearing and human health issues

- (1) The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.
- (2) The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anaemia, Diarrhoea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation,



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project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

- (7) The activities proposed in Action plan prepared for addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration.

X. Corporate Environment Responsibility (CER)

- (1) The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.
- (2) Project Proponent shall keep the funds earmarked for environmental protection measures in a separate account and refrain from diverting the same for other purposes. The Year wise expenditure of such funds should be reported to the MoEFCC and its concerned Regional Office.

XI. Miscellaneous

- (1) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.
- (2) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.
- (3) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MoEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.
- (4) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.
- (5) The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to

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Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.

- (3) The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminium, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-Ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).
- (4) The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities ,(c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.
- (5) The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.
- (6) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the

M/s Sera Granites India Pvt. Limited, Kerala

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the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.

12. The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.

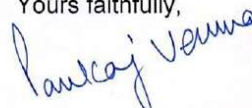
13. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attracts action under the provisions of Environment (Protection) Act, 1986.

14. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/ High Court of Rajasthan and any other Court of Law relating to the subject matter.

15. 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.

16. This issues with the approval of Competent Authority.

Yours faithfully,


(Pankaj Verma)
Scientist E

Copy to

1. The Secretary, Ministry of Mines, Government of India, Shastri Bhawan, New Delhi-110 001.
2. The Secretary, Department of Mines & Geology, Government of Kerala, Secretariat, Thiruvananthapuram - 695 001.
3. The Secretary, Department of Environment, Government of Kerala, Secretariat, Thiruvananthapuram- 695 001.
4. The Secretary, Department of Forests, Government of Kerala, Secretariat, Thiruvananthapuram- 695 001.
5. The Chief Wildlife Warden, Forest Department, Vazhuthacaud, Thiruvananthapuram – 695 014.
6. The Deputy Director General of Forests (C), Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 560034

M/s Sera Granites India Pvt. Limited, Kerala

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Annexure No.3


भारत सरकार | Government of India
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)
 पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives
 केन्द्रीय भवन, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor
 CSEZ पी.ओ.कक्काणाड कोच्ची | CSEZ PO Kakkanaad Dist. Ernakulam Ernakulam 682037
 फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

संख्या (No.): E/SC/KL/22/1509(E52766) दिनांक (Date): 18/08/2022

सेवा में | To,

Sh. PETER JOSEPH, Managing Director,
 M/S. SRA GRANITES INDIA PVT. LTD, 3/546 v. St. Antonys Shopping Complex, Kizhakkambalam P.O., Town/Village - Kizhakkambalam
 District-ERNAKULAM, State-Kerala, Pincode - 682038

विषय: Survey No.R.S.No.25/1Apt.1/1, ग्राम Nediya village, Thaliparamba taluk, जिला KANNUR, राज्य Kerala में मेसर्स Sh. PETER JOSEPH, Managing Director द्वारा विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1509(E52766) के संशोधन संदर्भ में।
 (अखण्ड / सुविधाएं / परिवर्तन)

Subject: Possession for Use of Explosives from magazine situated at Survey No.: R.S.No.25/1Apt.1/1, Nediya village, Thaliparamba taluk, Dist. KANNUR, Kerala - Licence No.: E/SC/KL/22/1509(E52766) granted in Form LE-3 of Explosives Rules, 2008 - (Amendment in Drawings/Facilities/Premises).

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या 68687 दिनांक 11/08/2022 का संदर्भ ग्रहण करें।
 Please refer to your letter no. 68687 dated 11/08/2022.

अनुज्ञप्ति संख्या E/SC/KL/22/1509(E52766) 1.) INTIMATION REGARDING QUARRYING OPERATIONS AT BLOCK NO 70, R.S.No.25/1A (25/2308), 25/1A(25/2310), 25/1A (25/2309), 28(28/274), 28(28/133), 25/1A (25/2312), 28(28/102), 25/1A(25/130), 28(28/263), 28(28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28(28/134), 28(28/262), 28(28/101), 28(28/130), 28(28/132), 28(28/275), 28(28/261) OF NIDIYENGA VILLAGE, TALIPARAMBA TALUK, KANNUR DISTRICT, VIDE LETTER OF INDENT NO.DOC/M-1302/2019 DATED 07/10/2021 OF THE DEPARTMENT OF MINING & GEOLOGY, KANNUR DISTRICT, EC NO.EC22A001KL117061 DATED 05/04/2022 AND LETTER NO. 1A-J-11015/86/2021/IA/II(NCM) NEW DELHI OF MOEF&CC, NEW DELHI IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.) NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES के संदर्भ में यथा संशोधित कर भेजी जा रही है।
 The Licence No.: E/SC/KL/22/1509(E52766) is forwarded herewith duly amended in respect of followings :

1.) INTIMATION REGARDING QUARRYING OPERATIONS AT BLOCK NO 70, R.S.No.25/1A (25/2308), 25/1A(25/2310), 25/1A (25/2309), 28(28/274), 28(28/133), 25/1A (25/2312), 28(28/102), 25/1A(25/130), 28(28/263), 28(28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28(28/134), 28(28/262), 28(28/101), 28(28/130), 28(28/132), 28(28/275), 28(28/261) OF NIDIYENGA VILLAGE, TALIPARAMBA TALUK, KANNUR DISTRICT, VIDE LETTER OF INDENT NO.DOC/M-1302/2019 DATED 07/10/2021 OF THE DEPARTMENT OF MINING & GEOLOGY, KANNUR DISTRICT, EC NO.EC22A001KL117061 DATED 05/04/2022 AND LETTER NO. 1A-J-11015/86/2021/IA/II(NCM) NEW DELHI OF MOEF&CC, NEW DELHI IS HEREBY ACKNOWLEDGED AND THE ONLINE OFFICE RECORD IS UPDATED. (2.) NO USE OF EXPLOSIVES IS PERMITTED UNLESS VALID QUARRY PERMIT IS OBTAINED AND COPY SUBMITTED TO THIS OFFICE. LOCAL STATE GOVERNMENT AUTHORITIES APPROVAL/ENVIRONMENTAL CLEARANCE AS APPLICABLE AND RENEWED FROM TIME TO TIME SHALL BE IN POSSESSION (3.) LICENSED EXPLOSIVES VAN SHALL BE USED FOR TRANSPORTATION OF EXPLOSIVES FROM MAGAZINE TO BLASTING SITE. (4.) EXPLOSIVES AND DETONATORS SHALL NOT BE TRANSPORTED IN THE SAME VAN AND TO BE TRANSPORTED SEPARATELY FROM MAGAZINE TO THE BLASTING SITE. (5.) VAN SHALL NOT BE USED FOR STORAGE OF EXPLOSIVES AT SITE. (6.) IF ANY CHANGE OF QUARRY OR ADDITIONAL QUARRY IS INVOLVED, NECESSARY PRIOR APPROVAL/ENDORSEMENT SHALL BE OBTAINED FROM THE LICENSING AUTHORITY. (7.) OPENING OF QUARRY SHALL BE INFORMED TO THE DGMS AND BLASTING OPERATIONS SHALL BE CONDUCTED AS PER MINES ACT. (8.) APPROVED BLASTER SHALL BE APPOINTED IN THE QUARRY FOR BLASTING. (9.) ALL RECORDS OF USE OF EXPLOSIVES IN RE-3, RE-5, RE-7, RE-13 SHALL BE MAINTAINED. (10.) DAILY PASS FOR USE OF EXPLOSIVES (RE-13) SHALL BE GENERATED ONLINE. (11.) NECESSARY APPROVALS/LICENCES FROM OTHER DEPARTMENTS SHALL BE OBTAINED AS PER THE RULES.

किसी भी एक समय में लाइसेंस क्षमता निम्नलिखित वर्ग तथा मात्रा से अधिक नहीं होगी।
 The licence capacity at any one time shall not exceed the kinds and quantities mentioned below :

संख्या No	विस्फोटक Explosive(s)	वर्ग Class	प्रभाग Div	उप-प्रभाग Sub Div	क्षमता Capacity	इकाई Unit
1	Nitrate Mixture	2	0	0	150	Kg.
2	Safety Fuse	6	1	0	1500	Mtrs
3	Electric and/or Ordinary Detonators	6	3	0	4000	Nos.

किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3 (ख) और (ग) के अधीन अनुज्ञप्ति के लिए लागू) : 26 गुना
 Quantity of explosives to be purchased in a calendar month applicable for licence under article 3(b) and (c) : 26 times as above.

यह अनुज्ञप्ति दिनांक 31 मार्च 2027 तक प्रवृत्त रहेगी।
 This Licence shall remain valid till 31st day of March 2027.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया विस्फोटक नियम, 2008 के नियम 112 के अंतर्गत प्रक्रिया का पालन करें। कृपया पावती दें।
 For further revalidation(if required), please follow the procedure under Rule 112 of Explosives Rules, 2008. Receipt of this letter may please be acknowledged.

भवदीय | Your's faithfully
 (पी.के.राना | Dr. P. K. Rana)
 उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives
 कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. District Magistrate, KANNUR, Kerala with reference to his Noc No: 2010/33288/13/D4/TRNS(Transfer) Dated: 06/08/2022

अनुज्ञापि प्ररूप एल. ई.-3 | LICENCE FORM LE-3
(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)
(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1, 2, 3, 4, 5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए
Licence to possess : (c) for use, explosives of class 1, 2, 3, 4, 5, 6 or 7 in a magazine

अनुज्ञापि सं. (Licence No.): E/SC/KL/22/1509(E52766)
वार्षिक फीस रूप (Annual Fee Rs): 2400/-

1. Licence is hereby granted to

Sh. PETER JOSEPH, Managing Director (अधिभोगी / Occupier : Shri Peter Joseph), M/s. SERA GRANITES INDIA PVT. LTD, 3/546 v. St. Antonys Shopping Complex, Kizhakkambalam P.O., Town/Village - Kizhakkambalam, District-ERNAKULAM, State-Kerala, Pincode - 682038

को अनुज्ञापि अनुदत्त की जाती है।

2. अनुज्ञापिधारी की प्रस्थिति | Status of licensee : Company

3. अनुज्ञापि निम्नलिखित प्रयोजनों के लिए विधिमानी है।
Licence is valid only for the following purpose.

4. अनुज्ञापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमानी है।
Licence is valid for the following kinds and quantity of explosives: - (क) (a)

Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2.0	0	150 Kg.
2.	Safety Fuse	6.1	0	1500 Mtrs
3.	Electric and/or Ordinary Detonators	6.3	0	4000 Nos.

(ख) किसी एक कैलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा (अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापि के लिए)
(b) Quantity of explosives to be purchased in a calendar month (applicable for licence under article 3(b) and (c)) :

26 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापित परिसर की पुष्टि होती है।
The licensed premises shall conform to the following drawing(s):

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1509(E52766)
दिनांक (Dated) 18/08/2022

6. अनुज्ञापित परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
Survey No. R.S.No.25/1Apt.1/L. ग्राम (Town/Village) : Nediya Village, Thaliparamba taluk, Sreekanthapuram
जिला (District) KANNUR पुलिस थाना (Police Station) : Sreekanthapuram
दूरभाष (Phone) 9447080722 राज्य (State) Kerala पिनकोड (Pincode) 670632
ई.मेल (E-Mail) फैक्स (Fax)

7. अनुज्ञापित परिसर में निम्नलिखित सुविधाएं अंतर्भूत हैं।
The licensed premises consist of following facilities.

D and E type portable explosives (Mfd by Thekkans Engineering and Fabrication works) & D Type No.040(Everest Granite)

8. अनुज्ञापि समय-समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपावधों के अधीन रहते हुए अनुदत्त की जाती है।
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए)।
Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापि प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापि की शर्तों और अतिरिक्त शर्तों।
Conditions and Additional Conditions of this licence signed by the licensing authority.

3. दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापि तारीख 31 मार्च 2017 तक विधिमानी रहेगी। This licence shall remain valid till 31st day of March 2017.

यह अनुज्ञापि, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपवर्णित इस अनुज्ञापि की शर्तों का अधिक्रमण करने या यदि अनुज्ञापित परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।
This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under Set VIII, wherever applicable, referred to in Part 4 of Schedule V or if the licensed premises are not found conforming to the description shown in the plans and Annexure attached hereto.

तारीख | The Date - 31/10/2012

संयुक्त मुख्य विस्फोटक नियंत्रक | Joint Chief Controller of Explosives
South Circle, Chennai

Amendments :

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 28/06/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 28/06/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 19/09/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 02/11/2017
- Amendment in Drawings/Facilities/Premises dated : 18/08/2022

Transfers :

- Change in Licensee Name/Address/Status dated : 10/08/2022

नवीनीकरण के पृष्ठानक के लिए स्थान
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
02/03/2022	31/03/2027	Sd/- Dy. Chief Controller of Explosives, Ernakulam

**कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरुपयोग विधि के अधीन गंभीर दंडित अपराध होगा।
Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.**

Copy of explosive

Annexure No.4

ശ്രീകണ്ഠപുരം മുനിസിപ്പാലിറ്റി

[Sreekandapuram Municipality]

1994-ലെ കേരള മുനിസിപ്പാലിറ്റി ആക്ടിലെ (1994-ലെ 20-ാം ആക്ട്) 447 വകുപ്പ് പ്രകാരം നൽകുന്നത്

[Issued under Section 447 of the Kerala Municipality Act 1994 (20th Act of 1994)]

അനുമതിപത്രം

[LICENCE]

1. ലൈസൻസ് നമ്പർ :
[Licence Number]

131284012300025

2. തീയതി :
[Date]

05-04-2023

3. ലൈസൻസ് എടുത്തിട്ടുള്ള വ്യക്തിയുടെ പേരും മേൽ-വിലാസവും:
[Name and address of the Licensee]

Peter Jopseph
546/v, St.Antony's Shopping
Complex , Kizhakkambalam,
683562



4. ലൈസൻസ് എന്നറവശ്യത്തിൻ :
[Purpose of Licence]

കോഡ്	ഇനവിവരം
456.2	നഗരസഭാ പരിധിയിൽ വരുന്ന നിയമവിധേയമായ മറ്റുള്ള വ്യാപാരവും സംരംഭക പ്രവർത്തനവും മറ്റു സേവനങ്ങളും - എക്സ്ട്രാസിവി ഉപയോഗിച്ച് കരിങ്കൽ ഖനനം നടത്തൽ

5. ലൈസൻസ് കാലാവധി :
[Period of Licence]

01-04-2023

മുതൽ

31-03-2028

വരെ

[From]

[To]

സംരംഭത്തിന്റെ / സ്ഥാപനത്തിന്റെ / കടയുടെ പേര് :
[Name of Project / Institution / Shop]

Peter Joseph Managing Director Sera Granites India
Private Limited 3/546V St.Antony's Shopping Complex
Kizhakkambalam Ernakualm, Cheparambu,
sreekandapuram

റവന്യൂ വാർഡ് നമ്പർ :
[Ward No.]

5

സർവ്വേ നമ്പർ :
[Survey No.]

25/1A

7. ലൈസൻസ് ഫീസ് അടച്ച വിവരങ്ങൾ :
[Licence Fees Details]

രസീത് നമ്പർ [Receipt No]	തീയതി [Date]	ലൈസൻസ് ഫീസ് [Licence Fees]
1220000534	28-02-2023	50000

ലൈസൻസിംഗ് അധികാരി അധികാരപ്പെടുത്തുന്നതിൻ പ്രകാരം :
[Signed and Sealed as authorised by Licencing Authority]

Date

Office Seal

Name and Designation Seal

Signature

Note : 5 എണ്ണത്തിൽ കൂടുതൽ വരുന്ന കെട്ടിടനമ്പരുകൾ

Signature Not Verified
Digitally signed by JAYACHANDRAN V R
Date: 2023.04.05 14:23:42 IST
Reason: Information kerala mission

Panchayat License

April 2023 – September 2023

78

Annexure No.5

1st Duplicate .

भारतीय गैर न्यायिक

On examination of the Original Document of this instrument I have satisfied that sufficient stamp duty of **₹ 500** FIVE HUNDRED RUPEES has been levied by that instrument.

पाँच सौ रुपये Rs. 500

8th day of March 2023

INDIA NON JUDICIAL

Sub Registrar
Director: O.K. Philip

K 875452

FORM H
(See Rule 43)
QUARRYING LEASE

This deed of lease made on this the 6th day March 2023 between the Governor of Kerala (hereinafter referred to as the "State Government" which expression shall, where the context so admits be deemed to include his successors and assigns) of the one part and M/s. Sera Granites India Private Limited, 3/546 V, St. Antony's Shopping Complex, Kizhakkambalam P.O., Ernakulam - 683 562 (Represented by its Managing Director Sri. Peter Joseph) (Aadhaar No. 8802 4468 3941) (hereinafter called

Lessor  06.03.2023 Ajeeb. P.A Geologist Dept. of Mining & Geology District Office, Kannur	Lessee For SERA GRANITES INDIA PVT. LTD.  Managing Director Peter Joseph 6/3/2023
---	--

No. 53629 Date: 02.03.2023 500/-
Managing Director, Peter Joseph
Sera Granites India Pvt Ltd
Bindhu Benny Stamp Vendor Puthencruz
Kizhakkambalam

24 FEB 2023

:2:

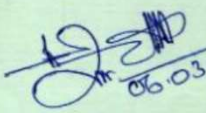
the "lessee/lessees" which expression shall where the context so admits, include his/their heirs, executors, administrators, representatives and permitted assigns) of the other part.

Witnesseth that in consideration of the rents and royalties and lessee's/Lessees' covenants, hereinafter reserved and contained the State Government hereby give on lease to the lessee/lessees the land measuring 10.3274 Hectares described in the schedule hereunder and delineated on the plan hereto annexed and therein coloured red (hereinafter called the "said lands") to hold the same for a period of 10 (Ten) years commencing from the 06.03.2023 and ending on the 05.03.2033 for the purposes of extracting minor mineral/minerals and subject to the terms and conditions contained in the Kerala Minor Mineral Concession Rules, 2015 (hereinafter referred to as "the Rules") and to the terms and conditions hereinafter appearing.

1. The lessee/lessees shall have the right in and upon the said lands to extract Granite Building Stone (here in after called the said mineral/minerals) and to do all acts necessary for the extraction of the said mineral/minerals including the erection on the said lands, buildings and plant required for the purposes and also to take lead and carry away over the said lands and to dispose of the said minerals extracted as aforesaid.
2. The lessee/lessees shall during the subsistence of this lease have the liberty to work the said mineral/minerals and remove the same from the leasehold on permits issued by the State Government/competent authority or any other officer authorized by him in this regard. The permits shall be issued only on the basis of pre-paid royalty at the

Lessor

Lessee

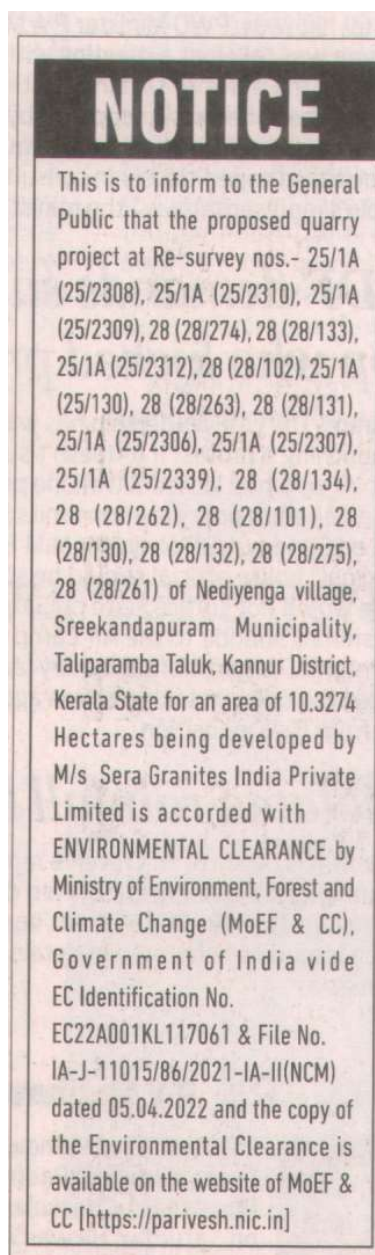

06.03.2023
Ajeeb. P.A
Geologist
Dept. of Mining & Geology
District Office, Kannur

For SERA GRANITES INDIA PVT. LTD.


Managing Director
Peter Joseph
6/3/2023

Lease deed

Annexure No.6



നോട്ടീസ്

പൊതുജന ശ്രദ്ധയ്ക്കായി, കേരള സംസ്ഥാനം, കണ്ണൂർ ജില്ല, തളിപ്പറമ്പ് താലൂക്ക്, ശ്രീകണ്ഠാപുരം മുനിസിപ്പാലിറ്റി, നെടിയങ്ങ വില്ലേജിൽ റീസർവേ - നമ്പർ 25/1A (25/2308), 25/1A (25/2310), 25/1A (25/2309), 28 (28/274), 28 (28/133), 25/1A (25/2312), 28 (28/102), 25/1A (25/130), 28 (28/263), 28 (28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28 (28/134), 28 (28/262), 28 (28/101), 28 (28/130), 28 (28/132), 28 (28/275), 28 (28/261)-ൽ ഉൾപ്പെട്ട 10.3274 ഹെക്ടർ സ്ഥലത്ത് പാറ വനനം ചെയ്യുന്നതിനു വേണ്ട പാരിസ്ഥിതികാനുമതി സെറ ഗ്രാനൈറ്റ്സ് ഇന്ത്യ പ്രൈവറ്റ് ലിമിറ്റഡ് എന്ന സ്ഥാപനത്തിന് കേന്ദ്ര പാരിസ്ഥിതി, വനം & കാലാവസ്ഥ വ്യതിയാനം (MoEF & CC) മന്ത്രാലയം, കേന്ദ്ര സർക്കാർ (ഗവ. ഓഫ് ഇന്ത്യ)-ൽ നിന്നും ഇസി ഐഡൻറിഫിക്കേഷൻ നം. EC22A001KL117061, ഫയൽ നം. IA-J-11015/86/2021-IA-III(NCM) & തീയതി 05.04.2022 എന്ന ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ - പകർപ്പ് കേന്ദ്ര പരിസ്ഥിതി, വനം & കാലാവസ്ഥ വ്യതിയാനം (MoEF & CC) മന്ത്രാലയത്തിന്റെ വെബ്സൈറ്റിൽ (<https://parivesh.nic.in>) ലഭ്യമാണ്.

News Paper Advt.

Annexure No.7

24x7 PHONE BANKING
1800 425 1199
1800 420 1199
+91 484 2630994/5 (NRI)

www.federalbank.co.in

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Name	: SERA GRANITES INDIA PRIVATE LIMITED	Branch Name	: Kizhakkambalam
Communication Address	: St Antonys Shopping Complex Kizhakkambalam Ernakulam Kerala 683562 India	Branch Sol Id	: 1035
		Account Number	: 10350200008099
Address Last Updated On	: 08/04/2019	Customer Id	: 129183686
Regd. Mobile Number	: 919895818991	Account Open Date	: 21/08/2017
Email Id	: seragranites2017@gmail.	Account Status	: Active
Type of Account	: Current	Mode of Operation	: Single
Scheme	: FREEDOM CURRENT	Joint Holders	: SOUMYA PETER
IFSC	: FDRL0001035		
MICR Code	: 682049047		
SWIFT Code	: FDRLINBBIBD	Nomination	: Not Registered
Effective Available Balance	: 34631.4	Currency	: INR
Opening Balance	: 19,927.40	Date of Issue	: 27/02/2024

Statement of Account for the period 01-APR-2023 to 30-APR-2023

Date	Value Date	Particulars	Tran Type	Tran ID	Cheque Details	Withdrawals	Deposits	Balance	Dr/Cr
03/04/2023	03/04/2023	TFR:PETER JOSEPH	TFR	FB111686			3,00,000.00	3,19,927.40	CR
03/04/2023	03/04/2023	RTG/SREE NA/FDRLR520230 40300241515/ICICI BANK	TFR	S88562433	10131352	3,00,000.00		19,927.40	CR
03/04/2023	03/04/2023	Charges for RTGS Customer Payment :FDRLR520230403 0	TFR	S88562433		24.00		19,903.40	CR
03/04/2023	03/04/2023	RTGS RETURN	TFR	FB208112			3,00,000.00	3,19,903.40	CR
03/04/2023	03/04/2023	RTG/SREE NA/FDRLR520230 40300360308/ICICI BANK	TFR	S93086016		3,00,000.00		19,903.40	CR
03/04/2023	03/04/2023	Charges for RTGS Customer Payment :FDRLR520230403 0	TFR	S93086016		24.00		19,879.40	CR
28/04/2023	28/04/2023	TFR:PETER JOSEPH	TFR	FB82934			10,000.00	29,879.40	CR

Page 1 of 2

The Federal Bank Ltd. Corporate Office: Federal Towers, Market Rd, Periyar Nagar, Aluva, Kerala 683101,
Ph:0484 2630996 Website:www.federalbank.co.in

24x7 PHONE BANKING
1800 425 1199
1800 420 1199
+91 484 2630994/5 (NRI)

www.federalbank.co.in

FEDERAL BANK
YOUR PERFECT BANKING PARTNER

Date	Value Date	Particulars	Tran Type	Tran ID	Cheque Details	Withdrawals	Deposits	Balance	Dr/Cr
28/04/2023	28/04/2023	NFT/LATHIKA KRI/FDRLH231180 31930/SBI	TFR	S19398731	10131353	10,000.00		19,879.40	CR
28/04/2023	28/04/2023	Charges for NEFT Customer Pymt:FDRLH23118 031930	TFR	S19398731		2.00		19,877.40	CR
29/04/2023	29/04/2023	CASH	TFR	FB48518	10131354	1,200.00		18,677.40	CR
29/04/2023	29/04/2023	NFT/ANVAR KS/FDRLH231192 87464/SBI	TFR	S34613985	10131355	3,500.00		15,177.40	CR
29/04/2023	29/04/2023	Charges for NEFT Customer Pymt:FDRLH23119 287464	TFR	S34613985		2.00		15,175.40	CR
		GRAND TOTAL				6,14,752.00	6,10,000.00		

Abbreviations Used:

CASH : Cash Transaction

TFR : Transfer Transaction

FT : Fund Transfer

CLG : Clearing Transaction

SBINT : Interest on SB Account

MB : Mobile Banking

DISCLAIMER: This computer generated statement contains the particulars of the transaction(s) in the account that have been updated till the time of day end operations of the CBS system of the Bank on the previous working day and the same will not reflect the transaction(s) that have occurred in the account, if any, subsequent thereto. The Federal Bank Ltd. shall not be liable/responsible for want of full particulars of the transaction(s) at the time of the generation of this statement.

This is a computer generated statement which need not normally be signed. Contents of this statement will be considered correct if no error is reported within 21 days of the statement date.

****END OF STATEMENT****

SAN GEORGIA SPECIAL SCHOOL
 SREEKANDAPURAM-670631
 KANNUR DT., PH: 9497858480

No. **191** Date **07/08/2023**

Received with thanks from **Managing Director, Sesa Granite India Private limited**

for the month of

PARTICULARS	AMOUNT	
	Rs.	P.s.
WELFARE FUND	5000/-	

[Signature]
Director.

CER

Annexure No.8

Standards

TEST REPORT

Test Report No: 230622/R107	Date: 26-06-2023	Page 1 of 1
-----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Sera Granites India Pvt. Ltd Nediyenga, Thaliparamba Kannur District
Customer Reference	Test Request date: 20-06-2023

SAMPLE DETAILS			
Product Category	Atmospheric Pollution	Sample Code	230622/S107
Sample Name	Ambient Air	Sample Received on	22-06-2023
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23-06-2023
Sampled by	Lab Authorized Sampler	Test Completed on	25-06-2023

DETAILS OF SAMPLING			
Sampling Location	Project Site	Date of Sampling	20-06-2023
Sampling Procedure	SEAAL/ENL/GEN/SOP/02	Humidity	70 %

SAMPLING SITE DETAILS			
Survey No.	25/1A (25/2308), 25/1A (25/2310), 25/1A (25/2309), 28 (28/274), 28 (28/133), 25/1A (25/2312), 28 (28/102), 25/1A (25/130), 28 (28/263), 28 (28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28 (28/134), 28 (28/262), 28 (28/101), 28 (28/130), 28 (28/132), 28 (28/275), 28 (28/261)		
Village	Nediyenga	Taluk	Thaliparamba
District	Kannur	State	Kerala

TEST RESULTS-CHEMICAL					
SL NO	PARAMETERS	TEST METHOD	UNIT	RESULT	KSPCB LIMIT
1	Particulate matter PM ₁₀	IS 5182 (Part 23): 2006	µg/m ³	60.3	100 (Max)
2	Particulate matter PM _{2.5}	IS 5182 (Part 24): 2019	µg/m ³	26.9	60.0 (Max)
3	Sulphur dioxide as SO ₂	IS 5182 (Part 2): 2001	µg/m ³	<4.00	80.0 (Max)
4	Oxides of Nitrogen as NO ₂	IS 5182 (Part 6): 2006	µg/m ³	<4.00	80.0 (Max)

End of Report


Nesny A.K.
Chemist
Checked by




Laiju P.N.
Laboratory Head
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Air

Annexure No.9

Standards

TEST REPORT

Test Report No: 230622/R108	Date: 26-06-2023	Page 1 of 2
-----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Sera Granites India Pvt. Ltd Nediyenga, Thaliparamba Kannur District
Customer Reference	Test Request date: 20-06-2023

DETAILS OF MONITORING			
Product Category	Atmospheric Pollution	Sample Code	230622/S108
Sample Name	Ambient Noise	Monitoring Commenced on	20-06-2023
Test Method	IS 9989:1981	Monitoring Completed on	21-06-2023
Monitoring Location	Project Site	Monitored by	Lab Authorized Sampler

SAMPLING SITE DETAILS			
Survey No.	25/1A (25/2308), 25/1A (25/2310), 25/1A (25/2309), 28 (28/274), 28 (28/133), 25/1A (25/2312), 28 (28/102), 25/1A (25/130), 28 (28/263), 28 (28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28 (28/134), 28 (28/262), 28 (28/101), 28 (28/130), 28 (28/132), 28 (28/275), 28 (28/261)		
Village	Nediyenga	Taluk	Thaliparamba
District	Kannur	State	Kerala

MONITORING RESULTS - Leq					
TIME	RESULTS dB(A)	TIME	RESULTS dB(A)	TIME	RESULTS dB(A)
06:00	36.8	14:00	49.3	22:00	35.6
07:00	39.4	15:00	49.6	23:00	35.4
08:00	43.6	16:00	50.8	24:00	38.0
09:00	47.0	17:00	51.2	01:00	38.7
10:00	49.3	18:00	45.9	02:00	38.3
11:00	52.3	19:00	42.4	03:00	39.1
12:00	49.6	20:00	38.7	04:00	38.0
13:00	48.9	21:00	38.2	05:00	39.8


Neenu A.K.
Chemist
Checked by




Laiju P.N.
Laboratory Head
Authorized Signatory

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Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards

TEST REPORT

Test Report No: 230622/R108		Date: 26-06-2023	Page 2 of 2
Sl. No.	PARAMETERS	UNIT	RESULT
1	Ambient Sound Level (Leq) Day Time	dB(A)	47.7
2	Ambient Sound Level (Leq) Night Time	dB(A)	38.3

Remarks:

End of Report

Standards


Nesny A.K.
 Chemist
 Checked by




Laiju P.N.
 Laboratory Head
 Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist.-683 110
 Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Result of Noise

Annexure No.10

Standards

TEST REPORT

Test Report No: 230622/R109	Date: 26-06-2023	Page 1 of 2
-----------------------------	------------------	-------------

CUSTOMER DETAILS	
Customer Name & Address	M/s Sera Granites India Pvt. Ltd Nediyenga, Thaliparamba Kannur District
Customer Reference	Test Request Date: 20-06-2023

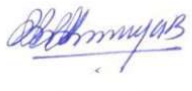
SAMPLE DETAILS			
Product Category	Water	Sample Code	230622/S109
Sample Name	Ground Water	Sample Received on	22-06-2023
Sample Description by Customer	Open Well Water	Temperature @ Receipt	27°C
Sample Conditions at Receipt	Fit for Analysis	Test Commenced on	23-06-2023
Sample Quantity& Packing	1 L & 125 ml in a Plastic Bottle	Test Completed on	25-06-2023
Information Provided by Customer	---	Sampled by	Not Drawn by Laboratory

SAMPLING SITE DETAILS			
Survey No.	25/1A (25/2308), 25/1A (25/2310), 25/1A (25/2309), 28 (28/274), 28 (28/133), 25/1A (25/2312), 28 (28/102), 25/1A (25/130), 28 (28/263), 28 (28/131), 25/1A (25/2306), 25/1A (25/2307), 25/1A (25/2339), 28 (28/134), 28 (28/262), 28 (28/101), 28 (28/130), 28 (28/132), 28 (28/275), 28 (28/261)		
Village	Nediyenga	Taluk	Thaliparamba
District	Kannur	State	Kerala

TEST RESULTS- CHEMICAL PARAMETERS					
Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Colour	IS 3025 (Part 4): 1983	Hazen	1	5 (Max)
2	Odour	IS 3025 (Part 5): 2018	---	Agreeable	Agreeable
3	Turbidity	IS 3025 (Part 10): 1984	NTU	<0.1	1.0 (Max)
4	pH	IS 3025 (Part 11): 1983	---	6.65	6.50-8.50
5	Conductivity	IS 3025 (Part 14):1984	µS/cm	61.0	---
6	Total Dissolved Solids	IS 3025 (Part 16): 1984	mg/L	39.0	500 (Max)


Nesay A.K.
Chemist
Checked by




Remya B.
TM-Biological
Authorized Signatory


Laiju P.N.
Laboratory Head
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

'Standards' Bldg. No: 338/A,B,C,D,E (Behind BPCL Petrol Pump), Edayar, Muppathadam P.O., Ernakulam Dist. - 683 110
Tel. 0484-2546660, 93872 72402, 90743 41443, Web: www.sealabs.in, E-mail: seaalab@gmail.com

Standards

TEST REPORT

Test Report No: 230622/R109	Date: 26-06-2023	Page 2 of 2
-----------------------------	------------------	-------------

TEST RESULTS- CHEMICAL PARAMETERS

Sl. No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
7	Total Hardness as CaCO ₃	IS 3025 (Part 21): 2009	mg/L	12.0	200 (Max)
8	Calcium as Ca	IS 3025 (Part 40): 1991	mg/L	4.80	75 (Max)
9	Magnesium as Mg	IS 3025 (Part 46): 1994	mg/L	3.20	30 (Max)
10	Chloride as Cl	IS 3025 (Part 32): 1988	mg/L	<1.00	250 (Max)
11	Total Alkalinity as CaCO ₃	IS 3025 (Part 23): 1986	mg/L	8.81	200 (Max)
12	Iron as Fe	IS 3025 (Part 53): 2003	mg/L	9.95	1 (Max)
13	Sulphate as SO ₄	IS 3025 (Part 24): 1986	mg/L	<0.10	200 (Max)

TEST RESULTS - BIOLOGICAL PARAMETERS

Sl.No.	PARAMETERS	TEST METHOD	UNIT	RESULT	Requirement as per Acceptable Limit of IS 10500: 2012
1	Total Coliform Bacteria	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml
2	E coli	IS 15185 : 2016	----	Absent/100 ml	Absent/100 ml

Remarks:

End of Report

Nesny A.K.

Nesny A.K.
Chemist
Checked by



Remya B.

Remya B.
TM-Biological
Authorized Signatory

Laiju P.N.

Laiju P.N.
Laboratory Head
Authorized Signatory

The results are related only to the samples submitted for analysis and this test report shall not be reproduced except in full, without the written approval of the laboratory.

Standards Environmental & Analytical Laboratories

Approval: "A" Grade Laboratory approved by Kerala State Pollution Control Board.

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Result of water