ENVIRONMENT CLEARANCE COMPLIANCE REPORT (October 2022 - March 2023)

For

GRANITE BUILDING STONE QUARRY (Minor Mineral) Extent: 12.2987 Ha.

At

Re-Sy No.	:	354/4, 354/5, 355/1 pt, 351/1 pt,
		350, 352/1 pt
Village	:	Manakkad
Taluk	:	Thodupuzha
District	:	Idukki
State	:	Kerala

'Granite Building Stone Quarry of **Sri. George Kochuparambil'**

E. C. No:1137/EC/SEIAA/KL/2017, Dated:17/03/2018,

EC Revalidated on. 02/03/2023



United Granites & Metals Vazhithala P O, Thodupuzha, Kerala, India mail : unitedgranitesandmetals@gmail.com

Business Relation: 04862 274694, 8281885888



Date:28.04.2023

To.

The Deputy Director General of Forests (C) MoEF, Regional office, Koramangala, Bangalore. KendrivaSadan, 4th Floor, E&F. Wings, 17th Main Road, Koramangala, 2ND Block, Bangalore - 560034

Sub:Environmental ClearanceCompliance Report for the period October2022-March2023pertaining to Granite Building StoneQuarry of Sri. George Kochuparambil

Ref: Environmental Clearance No:1137/EC/SEIAA/KL/2017, Dated:17/03/2018, EC

Revalidated on. 02/03/2023

Respected Sir,

EC No. 1137/EC/SEIAA/KL/2017 dated 17.03.2018 was valid till 15.03.2023. This EC is renewed with same File No. on 02.03.2023 with some additional specific conditions. This is complied and reports are attached.

As per conditions of the above referred Environmental Clearance(EC), please find enclosed compliance report for period from October2022to March2023 of the EC Granted to 'Granite Building Stone Quarry of Sri. George Kochuparambilby Ministry of Environmental& Forest under EPA(1986). Also enclosed relevant Annexures in Support of the compliance report for your perusal and record please.

We hope you will find the attached Status Report in Order.

Thanking you,

Yours truly,

For'Granite Building Stone Quarry of Sri. George Kochuparambil

Mr. George Kochuparambil (Managing Partner)

Encl: as above Cc: The Member Secretary State Environment Impact Assessment Authority (SEIAA) **Directorate of Environment & Climate Change** 4th Floor, KSTRC Bus Terminal, Thampanoor, Kerala-01



Introduction

Shri. George Kochuparambil, Kochuparambil house, Vazhithala Post, Thodupuzha Taluk, Idukki District, Kerala-685583 has been granted for a mining lease to quarry Granite Building Stone over an area of 12.2987 Ha. in Re-Sy Block No.11, Re-Sy. Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt of Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala State vide order No: 451/2018-19/890/M3/2017/DMG dated 01.10.2018 for a period of 12 years from 04.10.2018 to 03.10.2030.

The Environmental clearance is also obtained for this mining lease vide letter no 1137/EC/SEIAA/KL/2017, Dated: 17/03/2018, for a maximum production of 4,00,000 MTA. Vide letter no. 1137/EC/SEIAA/KL/2017 dated 02.03.2023, the validity of EC is extended for the project life of 16 years from the date of original EC (ie 17.03.2018).

The lease is located on the slope of the area gently dipping towards NE. The highest elevation in this area is 145m above MSL and the lowest elevation is 35m above MSL. This granite building stone quarry is located at 6.0 Kms from Manakkad Village in Thodupuzha Taluk. It is at a distance of 10.6 Kms by road from Thodupuzha town. It can be reached from Vazhithala - Parakkadavu Road.

Description of the project

File No.		1137/EC/SEIAA/KL/2017
Name of the project		GRANITE BUILDING STONE QUARRY (Minor Mineral) of Mr.George Kochuparambil
District and state	:	Idukki, Kerala
Taluk / Mandal	:	Thodupuzha
Village	:	Manakkad
Category & Schedule		B2 & Schedule 1(a)
Khasara No. / Plot No. / Block / Gate No. etc.,	:	Re-Sy Block No.11, Re-Sy. Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt.
Extent of Area		12.2987 Ha
Ownership / Occupancy	:	Private Land
Existence of public road/railway line, if any, nearby and approximate distance Nearest Port / Airport	:	The nearest railhead – Piravam Road (30 Kms) and Nearest airport – Cochin International Airport (48 Kms) from the mine.
Latitude & Longitude	:	N - 09°53'32.72" to N - 09°53'48.09" E - 76°38'21.51" to E - 76°38'36.07"
Address of Registered office		Shri. George Kochuparambil, Kochuparambil house, Vazhithala-Post, Thodupuzha Taluk, Idukki District Pincode: 685 583 E-mail: - <u>unitedgranitesandmetals@gmail.com</u>

Compliance Status of the General Conditions for Mining Projects Laid down by the State Environment Impact Assessment Authority, Kerala vide their Environment Clearance No.56/2018 Dated:17/03/2018, EC Revalidated on. 02/03/2023

Part A – Specific Conditions (1137/EC/SEIAA/KL/2017, Dated: 17/03/2018)

Sl.	Condition	Status of Compliance
No.		
1	If any rare, endemic and threatened plant species are noticed, they shall be properly protected insitu or transplanted to a suitable site inside the lease area.	The Endemic species are properly protected and transplanted to a suitable area.

Specific Conditions (1137/EC/SEIAA/KL/2017, Dated: 02/03/2023)

Sl.	Condition	Status of Compliance
No.		
1	The buffer zone should be maintained	7.5m wide buffer zone is maintained. Thick
	with a uniform width of 7.5m and it	green belt is maintained. Geo tagged
	should be used for developing and	photograph is attached as Annexure-1
	maintaining thick green belt.	
2	The garland canal, silt traps and	The garland canal, silt traps and overflow
	overflow channel should be maintained	channel are maintained periodically by
	periodically by cleaning and desilting	cleaning and desilting. Geo-tagged
	and geo-tagged photographs of the	photographs are attached as Annexure- 2
	process should be included in the half	
	yearly compliance report.	

-		
3	The impact of vibration due to blasting	Study of blast vibration is being done.
	on the nearest houses and other built	Monitoring is done near the nearest house
	structures should monitored in terms of	also. Report is attached as Annexure-03.
	Peak Particle Velocity and amplitude for	
	a maximum charge per delay and	
	included in the Half Yearly Compliance	
	Report.	
4	NONEL short delay detonator may be	Nonel initiation system is only used in
	used for initiation.	blasting.
5	Blasts should be conducted by a blasters	Blasting is done by person having statutory
	or mining mate certificate holder	certificate issued by DGMS.
6	To restrict fly rock within 10m, muffling	Blasting mats are used to restrict fly rocks
	arrangements should be made.	up to 10m. Photograph is attached as
		Annexure- 4.
7	In wake of occurrence of large scale	Initiation by NONEL is only used for
	landslides in the state, as per the	blasting.
	information provided by the Department	
	of Mining and Geology, it is directed to	
	use only NONEL for blasting to reduce	
	the vibration of the ground, which is one	
	of the causative factors that triggers	
	landslides, formation of cracks in the	
	surrounding buildings and disturbance to	
	human and wild life.	
8	Blasting mats should be used during rock	Blasting mats are used. Photograph is
	blasting to contain the blast, prevent fly	attached as Annexure- 4.
	rocks and suppress dust.	
9	The violation of EC condition may lead	Agreed.
	to cancellation of EC and action under	

The Environment	(Protection)	Act,
1986.		

Part B – General Conditions

Sl. No.	Condition	Status of Compliance
1	Rainwater harvesting facility should be installed as per prevailing provisions of KMBR/KPBR, unless otherwise specified.	Rainwater harvesting is a technically feasible solution for overcoming the problem of water scarcity in Mines. Rain water harvesting facility is installed. The photos of Rain Water harvesting Pond is attached as Annexure- 5
2	Environment Monitoring Cell as agreed under the affidavit filed by the proponent should be formed and made functional.	Environment monitoring cell is formed & is made functional. The details of Environmental monitoring cell are given as Annexure-6 . Minutes of meeting of 20 th meeting held on 27.10.2022, 21 st meeting held on 29.12.2022 and 22 nd meeting held on 16.03.2023 are attached.
3	Suitable avenue trees should be planted along either side of the tarred road and open parking areas, if any, including approach roads and internal roads.	Suitable types of trees are planted along either side of the road & parking areas. Photographs are attached as Annexure - 7
4	Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	Solar Energy generation and utilization is adopted. Photos of solar lights are attached as Annexure- 8
5	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Sprinklers are used in project site to control dust emission. Photos are attached as Annexure-9 .

	implemented.	implemented by adapting
11	Control measures on noise and vibrations prescribed by KSPCB should be	 Noise and vibration control measures is
10	Warning alarms indicating the time of Blasting(to be done at specific timings) has to be arranged as per stipulations of the Explosives department.	Blasting time and safety boards have been erected at all entrance to the mine. Siren is blown before blasting as warning and after blasting siren is hooted to give all clear message. Photographs of sign boards are attached as Annexure- 12 .
9	The Lease area shall be fenced off with barbed wires to a minimum height of 4 ft around, before starting of Mining. All the boundary indicators (boards, stores, markings, etc.) shall be protected at all times and shall be conspicuous.	Lease area is fenced off. Sign boards have been erected at prominent places. Photos of Boundary fencing are attached as Annexure-11
8	Corporate Social Responsibility (CSR) agreed upon by the Proponent should be implemented.	Several Corporate Social Responsibility (CSR) activities has been carried out by the project proponent. The Activities were carried in the sectors like Education, Infrastructure, Environment and Health care etc. The details of CSR provided in the period is mentioned in the below table. Attached as Annexure- 22
7	the Project Proponent. At least 10 per cent of total excavated Pit area should be retained as water storage area and the remaining area should be reclaimed with stacked dumping and overburden and planted with indigenous plant species that are eco- friendly, if no other specific condition on reclamation of the Pit is stipulated in the EC.	closure plan will be prepared as agreed by the project proponent. Photos are attached as Annexure-10 . During Closure of the mine, 10 percent of total excavated pit will be retained as water storage area and the remaining area will be reclaimed with stacked dumping & overburden and indigenous plant species will be planted.
6	Eco-restoration, including the Mine Closure Plan shall be done at the own cost of	Plantation of various saplings within the project area has been initiated. The mine

		 controlled blasting. Use of sharp drilling bits, delivery of compressed air at optimal pressure, Proper maintenance of compressor, drilling machine, jackhammers and tipper trucks. Regular monitoring of noise levels is being done within the core zone and the buffer zone of the mining lease area.
12	Quarrying activities should be limited to daytime as per KSPCB guidelines/specific conditions.	Quarrying activities are limited to daytime only as per KSPCB guidelines. Photograph of sign board showing quarry working time is attached as Annexure- 12 .
13	Blasting should be done in a controlled manneras specified by the regulations of the Explosives department or any other concerned agany.	Controlled blasting is done with Nonel initiation. Muffling is done to control flyrocks.
14	A licensed person should supervise/control the Blasting Operations	Blast design is approved by the First Class Mines Manager. Supervision is done by the Second Class Mines Manager
15	Access roads to the quarry shall be tarred tocontain dust emission that may arise during the transportation of material.	Access road to the Quarry is tarred and tiled to control dust emission. Photographs of road are attached as Annexure-13 .
16	Overburden materials should be managed within the site and used for reclamation of Mine Pit as per Mine closure Plan/specific conditions	Overburden material/Topsoil is stacked at the southeast corner of the site for future use of reclamation and green belt afforestation.
17	Height of Benches should not exceed 5 M and width should not be less than 5 M, if there is no mention in the Mining Plan/specific conditions	Benches are maintained.

18	Mats to reduce fly rock blast to a maximum of 10 PPV should be provided	Mats are laid on the top of the charged holes area to control fly rock. Blasting is done with Nonel initiation system only. Controlled blasting keeps the vibration below 10ppv. Photographs are attached as Annexure-04
19	Maximum depth of mining and general ground level at site shall not exceed 10m	The Mining is done as per the approved mining plan. Maximum depth of mining and general ground level at site shall not exceed 10m.
20	No mining operation should be carried out at place having a slope greater than 45°	No mining operation will be carried out at place having a slope greater than 45°
21	Acoustic enclosures should have been provided to reduce sound amplifications in addition to the provisions of green belt and hollow bricks envelop for crushers so that the noise level is kept within prescribed standards given by CPCB/KSPCB.	Acoustic enclosures have been provided to reduce sound amplifications.
22	The workers on the site should be provided with the required protective equipment such as ear muffs helmet, etc.	All the employees are provided with Personal Protective equipment (PPE's).
23	Garland drains with clarifiers to be provided in the lower slopes around the core area to channelize storm water.	Drains are provided to channelize Storm water. Photograph is attached as Annexure-02 .
24	The transportation of minerals should be done in covered trucks to contain dust emissions.	All trucks transporting material are covered by firmly tied tarpaulin. Photograph is attached as Annexure- 13
25	The proponent should plant trees at least 5 times the loss that has been occurred while clearing the land for the project.	Plantations of about 5 times the loss that has been occurred while clearing the land is being done. Nursery receipts are enclosed as Annexure-14
26	Disposal of spent oil from diesel engines should be as specified under relevant Rules/Regulations.	Spent oil is re-used as a lubricant for drilling. Excess oil is sold to authorized agencies

27	Explosives should be stored in magazines in	Explosives are stored in a Licensed
21	isolated place specified and approved by the	Explosives Magazine. Copy of Explosive
	Explosive Department.	license is attached as Annexure-15
28	A minimum buffer distance of 100 M from	No dwellings are situated within 100 M
	the boundary of the quarry to the nearest	from the boundary of the quarry.
	dwelling unit or other structures, not being	
	any facility for mining shall be provided.	
29	100 M buffer distance should be maintained	Mining area is not located near any forest
	from forest boundaries	areas.
30	Consent from Kerala State Pollution	Consent from KSPCB under Air and
	Control Board under Water and Air Act(s)	Water Act(s) is obtained. Copy of the
	should be obtained before initiating mining	consent is attached as Annexure-16
	activity.	
31	All other statutory clearances should be	All required statutory clearances are
	obtained, as applicable, by project	obtained.
	proponents from the respective competitive	
	authorities including that for blasting and	
	storage of explosives.	
32	In the case of any change(s) in the scope of	There is no change in the scope of the
	the Project, extent, quantity, process of	project.
	mining technology involved or in any way	
	affecting the environment	
	parameters/impacts as assessed, based on	
	which only the EC is issued, the project	
	would require a fresh appraisal by this	
	Authority, for which the proponent shall	
	apply and get the approval of this Authority.	
33	The Authority reserves the right to add	Agreed
	additional safeguard measures	
	subsequently, if found necessary, and to	
	take action including revoking of the	
	Environmental Clearance under provisions	
	of the Environment (Protection) Act,1986,	
	to ensure effective implementation of the	
	suggested safeguard measures in a time	
	bound and satisfactory manner.	
34	The stipulations by the Statutory	Agreed
	Authorities under different Acts and	

35	Notifications should be complied with including the provisions of the Water (Prevention and control of Pollution) Act,1974, the Air (Prevention and control of Pollution) Act1981, the Environment (Protection) Act,1986, the Public Liability (Insurance) Act,1991 and EIA Notification,2006 The project proponent should advertise in at least 2 newspapers widely circulated in the region, one of which (both the advertisement and the newspaper) shall be in the vernacular language informing that the Project has been accorded Environment Clearance and the copies of the Clearance letters are available with the State Environment Impact Assessment Authority (SEIAA) office and may also be seen on the website of the Authority at www.seiaakerala.org. The advertisement should be made within 10 days from the date of receipt of the clearance letter and a copy of the same signed in all the pages should be forwarded to the Office of this Authority as confirmation	Advertisements are given in two newspapers. 1. Kerala Kaumady – Malayalam – 12/04/2018 2. The Hindu Daily – English – 12/04/2018 Copies of advertisements published in the newspapers are attached as Annexure- 17
36	A copy of the clearance letter shall be sent by the proponent to the concerned Gram Panchayat/District Panchayat/Municipality/Corporation/Urban local Body and also to the Local NGO, if any from whom suggestions/representations, if any were received while processing the proposal. The Environmental Clearance shall also be put on the website of the company by the proponent.	A copy of the Clearance is submitted to the concerned authorities. Copy of Panchayat license attached as Annexure-18
37	The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results	Half yearly compliance reports are submitted as stipulated to State Environmental Impact Assessment

	of monitored data (both in hard copies as	Authority and the Regional Office of
	well as by e-mail) and upload the status of	MoEF&CC, Bangalore.
	compliance of the stipulated EC conditions,	The monitored data of Air, Noise and
	including results of monitored data on their	Water is attached as Annexure-19
	website and shall update the same	
	periodically. It shall simultaneously be sent	
	to the respective regional office of the	
	MOEF, Govt. of India and also to the State	
	Environment Impact Assessment Authority	
	(SEIAA) office	
38	The details of Environment Clearance	Details of Environmental Clearances is
	should be prominently displayed in a	prominently displayed at the entrance to
	metallic board of 3 ft x 3 ft with green	the Mine.
	background and yellow letters of Times	Photograph is attached as Annexure- 20
	Roman font of size not less than 40. Sign	
	board with extent of Lease area and	
	boundaries shall be depicted at the entrance	
	of the quarry, visible to the public	
39	The proponent should provide notarized	Notarized affidavit is submitted.
07	affidavit (indicating the number and date of	
	Environmental Clearance proceedings) that	
	all the conditions stipulated in the EC shall	
	be scrupulously followed.	
40	No change in mining technology and scope	Prior approval from the SEIAA will be
-10	of working should be made without prior	sought in case of change of mining
	approval of the SEIAA. No further	technology.
	expansion or modifications in the mine shall	cominically i
	be carried out without prior approval of the	
	SEIAA, as applicable.	
41	The Project proponent shall ensure that no	No natural water course is obstructed.
	natural water course and/or water resources	Necessary safeguard measures are taken
	shall be obstructed due to any mining	to protect first order streams if
	operations. Necessary safeguard measures	originating from the mining lease in the
	to protect the first order streams, if any,	future.
	originating from the mine lease shall be	
	taken.	
42	Monitoring of Ambient Air Quality to be	Monitoring of Ambient Air Quality is
74	carried out based on the Notification 2009,	carried out. Monitoring reports have
	as amended from time to time by the Central	been enclosed as Annexure-19 .
	as amenaed from time to time by the central	ocen enerosed as runicaule- 17.

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	Pollution Control Board. Water sprinkling	
	should be increased at places loading and	
	unloading points & transfer point to reduce	
	fugitive emissions.	
43	The top soil, if any, shall be temporarily be stored at earmarked site(s) only for the topsoil shall be used for land reclamation and plantation. The Over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only. The maximum height of the dumps shall not exceed 8 m and the width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo-textiles shall be undertaken for stabilization of the dump. The entire excavated area should continue until the vegetation becomes self- sustaining	Top Soil dump is stacked at the designated area and will be utilized during the Mine Closure for Afforestation and Green belt development. OB generated is stacked separately and is vegetated with locally available shrubs and grasses.
44	Catch drains and siltation ponds of appropriate size shall be constructed around the mine working, mineral and OB dumps to prevent run off of water and flow of sediments directly into the river and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly de silted particularly after monsoons and maintained properly	All storm water from lease area is collected in Silt Settling Tank (SST 1) through garland drains. After settling it overflows to SST 2 and then to SST3. The clear water from SST 3 is diverted to Rain water Harvesting Ponds for use in water sprinkling, gardening, etc.
45	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading points and transfer points-it shall be ensured that the Ambient Air Quality parameters	Regular water sprinkling is done on all necessary roads with water tankers and sprinklers. Photograph is attached as Annexure- 9

	conform to the norms prescribed by the	
	Central Pollution Control Board in this	
	regard.	
10	Fugitive dust emissions from all sources	Ensitive dust emissions are controlled by
46	should be controlled regularly. Water	Fugitive dust emissions are controlled by using water tankers with sprinklers.
		using water tankers with sprinklers.
	spraying arrangements on haul roads,	
	loading and unloading and transfer points	
	should be provided and properly	
	maintained.	
47	Measures should be taken for control of	Adequate measures for noise control
	noise levels below 85 dB (A) in the work	have been adopted.
	environment.	
48	A separate environmental management cell	An Environment Management Cell has
	with suitable qualified personnel should be	been set up with Mr. Sonu Jose as the
	set up under the control of a senior	head of the Cell.
	executive, who will report directly to the	The details of Environmental monitoring
	head of the Organization.	cell are given as Annexure-6 . Minutes of
		meeting of 20 th meeting held on
		$27.10.2022$, 21^{st} meeting held on
		29.12.2022 and 22 nd meeting held on
		16.03.2023 are attached.
49	The funds earmarked for environment	The funds earmarked for environment
	protection measures and CSR activities	protection measures and CSR activities
	should be kept in a separate account and	Shall be kept in a separate account and
	should not be diverted for other purpose.	will not be diverted for other purpose.
	Year wise expenditure should be reported to	CSR activities are distributed in 4 sectors
	the State Environment Impact Assessment	Education, Infrastructure, Environment
	Authority (SEIAA) office.	and Health care. Photos of the CSR
		receipts are enclosed as Annexure-22.
50	The Regional Office of MOEF and CC	Agreed
	located in Bangalore shall monitor	
	compliance of the stipulated conditions.	
	The Project authorities should extend full	
	cooperation to the Officer(s) if the Regional	
	Office by furnishing the requisite	
	data/information/monitoring reports	
51	Any appeal against the Environment	Agreed
	Clearance shall lie with the National Green	
L	1	

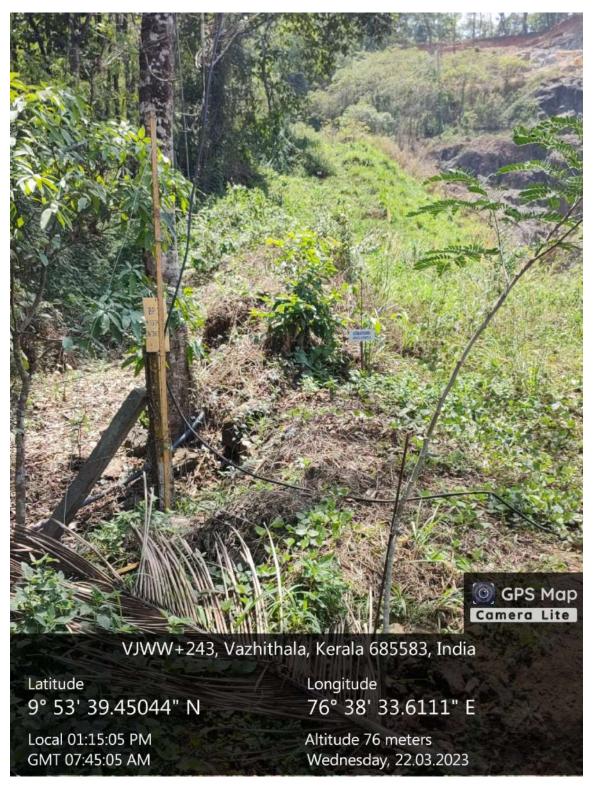
	T 1 1 C C 1 C C	
	Tribunal, if preferred, within a period of 30	
	days as prescribed under Section 16 of the	
	National Green Tribunal Act, 2010	
52	Concealing the factual data or submission	Agreed
	of false/fabricated data and failure to	
	comply with any of the conditions	
	mentioned above may result in withdrawal	
	of this clearance and attract action under	
	provisions of the Environment (Protection)	
	Act, 1986.	
53	The Regional Office of MOEF and CC	Agreed
	located in Bangalore shall monitor	0
	compliance of the stipulated conditions.	
	The Project authorities should extend full	
	cooperation to the Officer(s) if the Regional	
	Office by furnishing the requisite	
	data/information/monitoring reports	
54	The above conditions shall prevail not	Agreed
54	withstanding anything to the contrary,	Agreed
	inconsistent or simplified, contained in any	
	other permit, license on consent given by	
	any other authority for the same project.	
55	The order is valid for a period of 5 years of	Agreed
	the expiry date of Mine lease period issued	
	by the Government of Kerala, whichever is	
	earlier	
56	The Environment Clearance will be subject	Agreed
	to the final order of the courts in any	
	pending litigation related to the land or the	
	project, in any court of law.	
57	The Mining operations shall be restricted to	Mining operations will be restricted to
	above ground water table and it should not	above ground water table and due care
	intersect ground water table.	will be taken so as not to intersect ground
		water.
58	All vehicles used for transportation and	It is ensured that all transportation
	within the mines shall have 'PUC'	vehicles have 'PUC' Certificate issued
	certificate from authorized pollution	by an authorized Pollution checking
	checking center. Washing of all vehicles	center. All the vehicles are washed inside
	shall be inside the Lease area	the lease area.

59	Project proponent should obtain necessary prior permission of the competent authorities for drawl of necessary quantity of surface and ground water for the project.	There is no need for drawl of Surface and ground water for the project activities. As there is Rain Water Harvesting Pond present which will be main source of water. Photograph of Rain water harvesting pond is attached as Annexure-5 .
60	Regular monitoring of flow rates and water quality upstream and downstream of the springs and perennial nallahs flowing in and around the mine lease area shall be carried out and reported in the six-monthly reports to SEIAA	No perennial nallah flows through the lease or exist around the Mine Lease.
61	Occupational health surveillance program of the workers should be undertaken periodically to observe any contractions due to exposure to dust and take corrective measures, if needed.	Occupational health surveillance will be undertaken periodically. Periodical Medical Examination is done as per Mines Rules 1955. Medical certificates are issued in Form "O". Additionally all employees are covered under Medical Insurance. Health insurance for Employees is enclosed as Annexure-21

For Granite Building Stone Quarry of George Kochuparambil

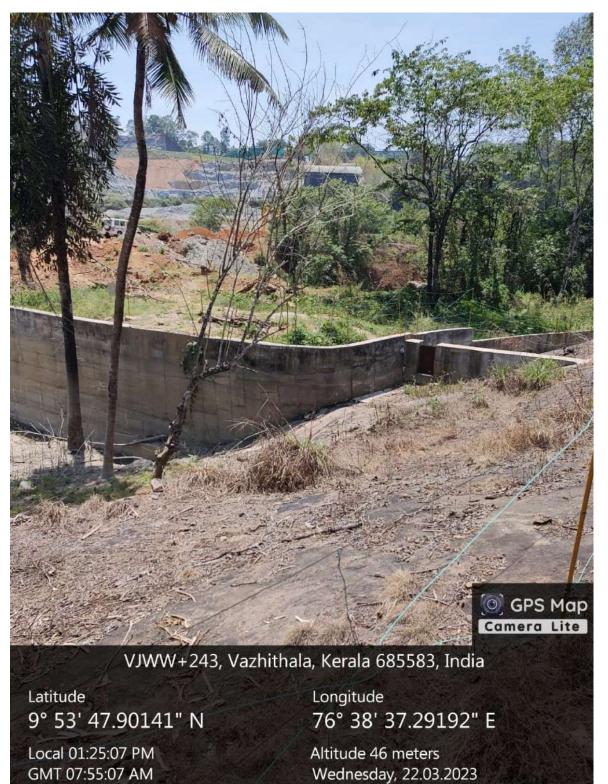
George Kochuparambil Managing Director Date: 28-04-2023

Annexure- 1



Green Belt

Annexure- 2



Garland Drain



Wednesday, 22.03.2023

Annexure-3

TECHNICAL REPORT ON BLAST INDUCED GROUND VIBRATION STUDIES AND ASSESSMENT OF EFFECT OF BLASTING OPERATIONS IN GRANITE BUILDING STONE QUARRY OF

Shri. GEORGE KOCHUPARMBIL,

MANAKKAD VILLAGE, THODUPUZHA (TK), IDUKKI DISTRICT, KERALA





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BLAST INDUCED GROUND VIBRATION STUDIES AND ASSESSMENT OF BLASTING EFFECTS IN GRANITE BUILDING STONE QUARRY OF Shri. George Kochuparambil

> Cyriac Joseph BE (Mining), FCC. Sankar. S BE (Mining), FCC. Saju. K BE (Mining), FCC.



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ABSTRACT

Shri. George Kochuparambil, Kochuparambil, is operating granite building stone quarry in Re-Sy Block No.11, Re-Sy. Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt in Manakkad Village, over an extent of 12.2987 Ha (9.51 Acres) in Thodupuzha Taluk, Idukki District, Kerala. The Granite building Stone is very hard and has to be excavated in this stone quarry with Drilling and Blasting methodology. As a Part of Statutory requirement for DGMS & Complying the EC condition this scientific study has been taken up to ensure the ground vibration level. A field visit was made to the quarry site by a team of following mining engineers & Drilling & Blasting experts.

1) Mr. Cyriac Joseph BE (Mining), FCC.

2) Mr. Sankar S BE (Mining), FCC.

3) Mr. Saju K BE (Mining), FCC.

A reconnaissance survey was made in the last week of March 2023. The quarry area is surrounded by good vegetation and there are few houses outside the lease boundary of South West & South-East direction which is not visible from blasting area due to undulations. Since all the observed Dominant frequencies were above 8 Hz, as per DGMS guidelines, the permissible limit for Peak particle velocity (PPV) can be considered as 10 mm/sec.

Blasting is very important process for mining operation and lot of explosives is used for this purpose. Various studies indicate that fragmentation accounts for only 20 – 30% of total amount of explosive energy used. Rest of the energy

is lost in the form of ground vibration, fly rock, air overpressure and noise. The specific problem associated with ground vibrations represents the human response to them. Uncontrolled Blasting vibrations may also cause significant damage to nearby houses or various structures.

Scientific study was carried out to assess the intensity of ground vibration generated due to and their impacts on the surrounding structures. In total, 15 blast were conducted at Four different location in the quarry blasting operations were monitored through geophone at the distance of 59 m, 74 m, 100 m, 145 m, 209 m, 283 m. The data obtained from the Instantel micromate instrument were interpreted and graphical output was obtained from the instrument. The Peak Particle Velocity (PPV), Maximum charge per delay, air over pressure was recorded for each blast. After that the various observations were compared with standards to determine the Conclusion.

From the analysis of Blast induced ground vibration at the Granite building stone quarry of Shri. George Kochuparambil, it was determined that the vibration level was less than 10 mm/sec for the blasts (for Building & Structures not belonging to Owner). The results determined from the study indicates that the peak particle velocity, air over pressure generated due to blasting were within the limits.

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ABBREVIATIONS:

- 1. DGMS Directorate General of Mines Safety
- 2. NABET National Accreditation Board for Education
 & Training
- 3. NABL National Accreditation Board for Testing and Calibration Laboratories
- 4. PPV Peak Particle Velocity
- 5. dB Decibel

EXECUTIVE SUMMARY

This report relates to the scientific study conducted by Global Environmental and Mining Services, Bangalore at Stone Quarry of Shri. George Kochuparambil. The main objective of the study was to check the blast induced ground vibration and air overpressure/noise generated during blasting. Fly rocks generated during the trial blasts were also observed and studied.

Fifteen blasts were conducted at different locations of the mine. Blast induced vibration and air overpressure/noise were monitored at different locations at different locations.

The investigational work, observations, result of the blasts conducted, analysis of the data and conclusions are summarized below.

- 1. In total, fifteen blasts were conducted and monitoring were done in nearest house of Mr. Tomy Kurian, Towards South West of Mine lease boundary, near the Mines office & inside the Mine. Out of the fifteen blasts, three blasts were conducted with box cut pattern and the rest twelve blasts were bench blasting pattern.
- All the blasts were conducted using 33 mm dia blast hole. Small diameter cartridge explosive of 25 mm diameter, 0.125 Kg weight per cartridge, ANFO and Nonel initiation system with DTH- 250 ms & 25 ms at surface, & STLD 42 ms were used in all blasts.
- 3. The depth of holes used in box cut blasts were 6ft with burden and spacing values of 1.0 m and 1.2 m respectively. The total number of holes per round of blast for the three blasts was 25. Explosive charge per hole was 0.375 Kg,

maximum charge per delay was 0.375 Kg and total explosive charge per blast was 9.375 Kg. The charge factor used in box cut pattern was 0.173 Kg/M³.

- 4. In the bench blast, the depth of holes used are 8ft and 6ft. The total number of holes varied from 25 to 16. All the blasts were done in hard rock. So staggered pattern of drilling was used.
- 5. The burden and spacing for the bench blast was 1.0 m and 1.2 m respectively. The 8 ft holes were charged with two cartridges of slurry explosives and ANFO. The explosive quantity per hole was 0.650 Kg. The 6 ft holes were charged with one cartridge of slurry explosive and ANFO. The explosive quantity per hole was 0.425 Kg.
- 6. Blast induced ground vibrations and air overpressure/ noise generated during the blasts were monitored on compacted ground surface using Micromate of Instantel, Canada. Distances of monitoring points from the blast site varied from 59 to 283 m.
- The Peak Particle Velocity recorded near the house of Mr. Tomy Kurian varied from 0.254 to 0.863 mm/s. Distance of house from blast locations was 283m.
- 8. The highest value of vibration recorded at 59m from blast site was 3.751 mm/s. This was recorded in blast no: 14 where maximum charge per delay was 0.375 Kg and total explosive charge in the blasting round was 9.375 Kg. This blast was done in box cut pattern.
- 9. Fly rocks up to 20 m was observed in blasting without muffling mats and up to 5 m in muffled blasting. The control of fly rock was achieved through proper blast design, Nonel initiation system and proper implementation and supervision of blasting operation.

- 10. Details of all the blasts studied are given in the table 2. Summary of the blast are given in Table 3. All the blasts layouts are given in Appendix I.Blast events are given in Appendix II.
- 11. The readings recorded were within the DGMS permissible limit.

INTRODUCTION:

Shri. George Kochuparambil is operating a granite building stone quarry since 1998. This company is more committed towards environment. Their registered office is in, Kochuparambil house, Vazhithala Post, Thodupuzha Taluk, Idukki District, Kerala-685 583. They have been granted a mining lease to quarry Granite Building Stone over an area of 12.2987 Ha. in Re-Sy Block No.11, Re-Sy. Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt of Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala State. Vide order No: 451/2018/-19/890/M3/2017/DMG, dated: 01.10.2018 for a period of 12 years from 04.10.2018 to 03.10.2030.



Fig 1: Overview of Mines

The Environmental clearance is also obtained for this mining lease vide letter no. 1137/EC/SEIAA/KL/2017, Dated: 17/03/2018, for a maximum production of 4, 00,000 MTA. Vide letter no. 1137/EC/SEIAA/KL/2017 dated 02.03.2023, the validity of EC is extended for the project life of 16 years from the date of original EC (i.e. 17.03.2018).

This granite building stone quarry is located at 6.0 Kms from Manakkad Village in Thodupuzha Taluk. It is at a distance of 10.6 Kms by road from Thodupuzha town. It can be reached from Vazhithala - Parakkadavu Road.

DETAILS OF STRUCTURES NOT BELONGING TO THE OWNER:

The house of Mr. Tomy Kurian, is located at South West side of the Mine Lease at a distance of 153 m from the Boundary Pillar No. 48. Coordinates of the House is 9°53'35.16"N & 76°38'18.64"E. This is the nearest house in South west Direction of the Lease Area. The mentioned House/Structure not belonging to the Owner is situated near the Current year production Face of

the Mine Lease.

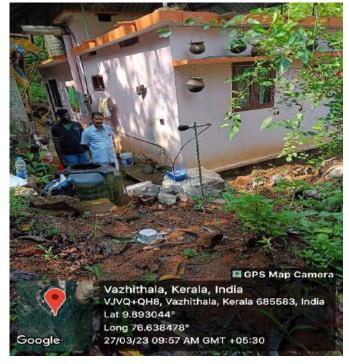


Fig 2: House of Mr. Tomy Kurian

TOPOGRAPHY & LOCAL GEOLOGY OF THE AREA:

The lease is located on the slope of the area gently dipping towards NE. The highest elevation in this area is 142.0 m above MSL and the lowest elevation is 35.4 m above MSL.

The granite building stones are well exposed in the working pit, whereas the part of area with lower elevation is covered with topsoil/waste of about 0 to 2.2m thickness.

BLAST VIBRATION STUDY:

On 27.03.2023, 15 Rounds of Blasts were conducted. The locations of Blasting & Monitoring stations are plotted in the Google Earth and shown below.



Fig 3: Google Earth Image of the Mine showing Blasting Locations & Monitoring Points

DRILLING & BLASTING:

Drilling and blasting combination are still an economical and viable method for rock excavation and displacement in mining as well as in civil construction works. The ill effects of blasting, i.e., ground vibrations, air blasts, fly rocks, back breaks, noises, etc. are unavoidable and cannot be completely eliminated but certainly minimize up to permissible level to avoid damage to the surrounding environment with the existing structures. Among all the ill effects, ground vibration is major concern to the planners, designers and environmentalists. A number of researchers have suggested various methods to minimize the ground vibration level during the blasting. Ground vibration is directly related to the quantity of explosive used and distance between blasting face to monitoring point as well as geological and geotechnical conditions of the rock units in excavation area. Blast induced ground vibration is an impact from the use of explosives that has historically been an extremely difficult problem to effectively mitigate. There are many variables and site constants involved in the equation that when combined, result in the formation of a complex vibration waveform generated by the confined detonation of an explosive charge.

The application of proper field controls during all steps of the drilling and blasting operation will help to minimize the adverse impacts of ground vibrations, providing a well-designed blast plan. This design would consider the proper hole diameter and pattern that would reflect the efficient utilization and distribution the explosives energy loaded into the blast hole. It would also provide for the appropriate amount of time between adjacent holes in a blast to provide the explosive. The optimum level of energy confinement. After the blast has been properly designed, the parameters that have the greatest effect on the composition of the ground vibration waveform are:

> Geology between the blast site and the monitoring location

> Accurate delay timing between blast holes in a detonation sequence Geological and geotechnical conditions and distance between blasting face to monitoring point cannot be altered but the only factor, i.e. quantity of explosive can be estimated based on certain empirical formulae proposed by the different researchers to make ground vibrations in a permissible limit. An appropriate and rock friendly blasting can be only alternative for smooth progress of the rock removal process.

OBJECTIVES

To study the blast vibrations caused due to the mine blasting, and prediction of safe explosive charge for protection of surface structures.

- To conduct the reconnaissance survey at the mine to identify the nearest villages
- > To monitor ground vibration produced from blasting at different distances by consultation with mine authorities
- To analyze the monitored ground vibration data to arrive at the sitespecific predictor equations.
- To recommend the safe maximum charge per delay to keep the vibration level within the safe limits as per DGMS standards.

METHODOLOGY

- > A preliminary reconnaissance survey was done to understand the quarrying operations, location of surrounding structures or houses
- Fifteen blasts were conducted at Four locations in the quarry with the different blast configurations
- Ground vibrations generated from the blasting operation were monitored with Instantel Micromate instrument.
- Data generated was analyzed systematically and conclusions were drawn. Suitable recommendations are made to conduct the blasting operations in the quarry in a safe manner.

GROUND VIBRATIONS

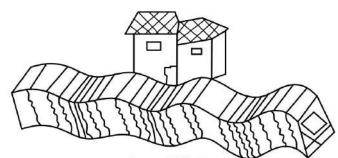
The movement of any particle in the ground can be described in three ways; displacement, velocity and acceleration. Velocity transducers (Geophones) produce the voltage which is proportional to the velocity of movement, and can be easily measured and recorded. They are robust and relatively inexpensive and so are most frequently used for monitoring. It has been shown in many studies, most notably by USBM that it is velocity which is most closely related to the onset of damage, and so it is velocity which is almost always measured. If necessary, the velocity recording can be converted to obtain displacement or acceleration. Each trace has a point where the velocity is a maximum (+ve or -ve) and this is known as peak particle velocity (or PPV) which has a unit of mm/s. Geophones are only able to respond to vibrations. Ground vibration radiates outwards from the blast site and gradually reduces in magnitude. When an explosive charge is detonated in a blast hole, strain waves are generated in the surrounding rock mass carrying huge quantity of energy. This energy generates cracks and fractures in the strata due to various breakage mechanisms such as crushing, radial cracking, reflection breakage etc. Combined, the crushed and fractured zones encompass a certain volume of permanently deformed rock. When the intensity of strain waves diminishes to the level where no permanent deformation occurs in the rock mass, i.e., beyond the fragmentation zone, strain waves propagate through the strata in the form of elastic waves. These waves in the elastic zone are known as ground vibrations.

The Ground vibration wave motion consists of different kinds of waves:

- a. Longitudinal (or L) waves.
- b. Rayleigh (or R) waves.
- c. Transverse (or T) waves.



a. Longitudinal Wave



b. Rayleigh Wave

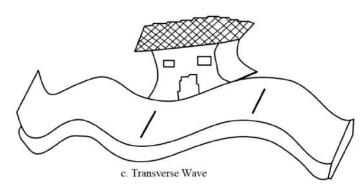


Fig 4: Different kind of waveforms

PARAMETERS AND PROPOGATIONS

The parameters, which exhibit control on the amplitude, Dominant frequency and duration of the ground vibrations, are divided in two groups as follow:

- a) Non-controllable parameters
- b) Controllable parameters

The non-controllable parameters are those, over which the blasting engineer does not have any control. The local geology, rock characteristics and distance of the structures from the blast site is non-controllable parameters. However, the control on the ground vibrations can be established with the help of controllable parameters. The same have been reproduced below:

- 1. Charge weight
- 2. Delay interval
- 3. Type of explosives
- 4. Direction of blast propagation
- 5. Burden, spacing and specific charge
- 6. Coupling
- 7. Stemming amount
- 8. Type of stemming
- 9. Charge depth
- 10. Angle of borehole

DAMAGE LEVEL

In India the Directorate General of Mines safety (Government of India) suggest safe limit of ground vibration for different categories of structures with frequencies of <8 Hz, 8 to 25Hz and >25Hz Respectively. Details of the permissible ground vibration standards given by DGMS (Technical Circular no: 7/1997) is given below

Type of Structure	Dominant Excitation Frequency, Hz			
Type of Structure	<8 Hz	8-25 Hz	>25 Hz	
(A) Buildings/Struct	ures not bel	ong to the Owne	er	
(i) Domestic Houses/Structures (Kuchha Brick & Cement)	5	10	15	
(ii) Industrial Buildings (RCC & Framed Structures)	10	20	25	
(iii) Objects of Historical importance & Sensitive Structures	2	5	10	
(B) Buildings belonging	to Owner wi	th limited span o	of life	
(i) Domestic Houses/Structures (Kuchha Brick & Cement)	10	15	25	
(ii) Industrial Buildings (RCC & Framed Structures)	15	25	50	

Table 1: Permissible PPV Levels recommended by DGMS

HUMAN RESPONSE TO GROUND VIBRATION

Human beings are more sensitive to ground vibration and noise. People inside buildings will respond differently than people outside. One of the most important factors is the presence of secondary sounds, such a rattling windows and doors. Complaints resulting from blast vibration to a large extent mainly due to rattling effect and fear of damage, rather than damage. The human body is very sensitive to low vibration levels, but unfortunately it is not a reliable damage indicator. Blasting nowadays is highly technological and precisely planned. In spite of this there are complaints because humans are very sensitive to vibrations and can detect levels as low as 0.5mm/s. people tend to complaint about ground vibrations even below the accepted damage level because of many reasons. How they notice and respond to vibration varies greatly from person to person. For the same intensity different persons may react differently with age, health, state of mind and attitude. Blast vibrations effects became intolerable to humans at levels appreciably lower than levels at which structural damage takes place. The result is that often complaints can be received due to human response and not due to situation producing damage.

FIELD INVESTIGATION

Quarrying starts with drilling of 33mm small diameter blasthole of 6 feet (1.80m) & 8 Feet (2.40m) depth, using hand held jackhammer drills (Fig. 5). The Burden is about 1.0 m & the Spacing is about 1.2 m. Once the blast hole is ready, these holes are charged with small diameter (25mm) explosive cartridges, weighing 125g (fig. 8) & ANFO. NONEL detonators (25ms) are used

for initiating the blast holes and also Surface Trunk Line Delay (STLD of 42ms) for achieving required delay in the blast round (Fig. 7). (Fig. 10) shows the charged holes after placing required quantity of explosive into the blast holes. The remaining length of the hole is stemmed using the 3 mm material and Drill cuttings (Fig. 9). Fig. 11 shows the muffling arrangement of blasting area/charged holes with blasting mats to control the fly rocks. Fig.12 shows the fragmented material from the blasting operations.



Fig 5: Drilling of Blast Holes using Jack Hammer



Fig 6: A Close view of the Bench Face



Fig 7: Non-Electric Detonator & Surface Trunk Line Delay used in the Quarry



Fig 8: Explosive Cartridges used in the Quarry



Fig 9: Stemming of Blast Holes



Fig 10: Charged Holes



Fig 11: Muffling arrangements to control the Fly rocks



Fig 12: Fragmented Rock after Blasting



Fig 13: Blast Vibration Monitoring

GROUND VIBRATION MONITORING

Scientific study was carried out to assess the intensity of ground vibrations generated due to blasting operations and their impact on the surrounding structures. In total, 15 blasts were conducted at different locations in the quarry. Blastholes of 6 Ft depth were charged with the ANFO & Slurry explosive quantity of 425 gms and Blastholes of 8 Ft depth were charged with the ANFO & Slurry explosive quantity of 650 gms. NONEL based shock tube detonator & Surface Trunk Line Delays (STLD) are used for achieving required delay timing. The blast round was initiated after getting safety clearance from all directions. Ground vibration generated from different blast were monitored using Instantel Micromate, Canada and geophone of these blast vibration monitors records the ground vibration. Trigger level geophone was set to a minimum PPV of 0.127 mm/sec. This indicate that the instrument will start monitoring the ground vibration. Geophone of the instrument is glued to the ground effectively using Plaster of Paris. Monitoring was done at different distances from blasting site to know the propagation of ground vibration from the quarry site. Fig.13 shows the study carried out to monitor the ground vibration towards the nearby house & near to Mine Office situated inside the Mine. Details of all the blasts studied are given in the table-2 & the summary of the blast are given in Table-3. All the blasts layouts are given in Appendix-I. Blast events are given in Appendix- II.

S. No	Description	Blast No. 1	Blast No. 2	Blast No. 3	Blast No. 4	Blast No. 5
1	Date of Blast	27.03.2023	27.03.2023	27.03.2023	27.03.2023	27.03.2023
2	Time of Blasts (Hours)	09:57:51	09:58:42	10:02:34	10:03:00	10:20:28
3	Location of blasts	9°53'37.79"N, 76°38'27.60"E	9°53'37.79"N, 76°38'27.60"E	9°53'37.79"N, 76°38'27.60"E	9°53'37.79"N, 76°38'27.60"E	9°53'37.26"N, 76°38'27.90"E
4	Diameter of blast hole (mm)	33	33	33	33	33
5	Burden (m)	1	1	1	1	1
6	Spacing (m)	1.2	1.2	1.2	1.2	1.2
7	Depth of blast hole (Ft)	8	8	8	8	6
8	No of blast holes	18	18	20	16	25
9	Explosive charge/ Hole (kg)	0.65	0.65	0.65	0.65	0.425
10	Maximum Charge per delay (kg)	0.65	0.65	0.65	0.65	0.425
11	Total Charge / Blast (kg)	11.7	11.7	13	10.4	10.625
12	Initiation System	Nonel	Nonel	Nonel	Nonel	Nonel
13	Initiation Pattern	Row to Row				
14	Location of instrument	9°53'35.16"N, 76°38'18.64"E	9°53'35.16"N, 76°38'18.64"E	9°53'35.16"N, 76°38'18.64"E	9°53'35.16"N, 76°38'18.64"E	9°53'38.16"N, 76°38'21.06"E
15	Distance (m)	283	283	283	283	209
16	PPV (mm/s)	0.254	0.632	0.597	0.863	0.825
17	Noise (dB)	93.23	94.7	92.6	93.5	97.44
18	Dominant Frequency (Hz)	25.63	50.38	52.63	104	53.5

S. No	Description	Blast No. 6	Blast No. 7	Blast No. 8	Blast No. 9	Blast No. 10
1	Date of Blast	27.03.2023	27.03.2023	27.03.2023	27.03.2023	27.03.2023
2	Time of Blasts (Hours)	10:21:10	10:29:34	10:30:01	10:30:26	12:37:10
3	Location of blasts	9°53'37.26"N, 76°38'27.90"E	9°53'37.26"N, 76°38'27.90"E	9°53'37.26"N, 76°38'27.90"E	9°53'37.26"N, 76°38'27.90"E	9°53'38.64"N, 76°38'23.88"E
4	Diameter of blast hole (mm)	33	33	33	33	33
5	Burden (m)	1	1	1	1	1
6	Spacing (m)	1.2	1.2	1.2	1.2	1.2
7	Depth of blast hole (Ft)	6	6	6	6	6
8	No of blast holes	25	25	23	21	25
9	Explosive charge/ Hole (kg)	0.425	0.425	0.425	0.425	0.425
0	Maximum Charge per delay (kg)	0.425	0.425	0.425	0.425	0.425
1	Total Charge / Blast (kg)	10.625	10.625	9.775	8.925	10.625
12	Initiation System	Nonel	Nonel	Nonel	Nonel	Nonel
3	Initiation Pattern	Row to Row				
4	Location of instrument	9°53'38.16"N, 76°38'21.06"E	9°53'38.16"N, 76°38'21.06"E	9°53'38.16"N, 76°38'21.06"E	9°53'38.16"N, 76°38'21.06"E	9°53'41.22"N, 76°38'22.20"E
15	Distance (m)	209	209	209	209	100
6	PPV (mm/s)	0.531	0.463	0.453	0.722	0.821
17	Noise (dB)	94.58	95.18	95.30	96.07	113.44
8	Dominant Frequency (Hz)	17.63	50	41.75	51.13	111.8

S. No	Description	Blast No. 11	Blast No. 12	Blast No. 13	Blast No. 14	Blast No. 15
1	Date of Blast	27.03.2023	27.03.2023	27.03.2023	27.03.2023	27.03.2023
2	Time of Blasts (Hours)	12:38:44	12:44:32	12:55:11	12:56:00	13:23:16
3	Location of blasts	9°53'38.64"N, 76°38'23.88"E	9°53'38.64"N, 76°38'23.88"E	9°53'43.62"N, 76°38'26.88"E	9°53'43.62"N, 76°38'26.88"E	9°53'43.62"N 76°38'26.88"E
4	Diameter of blast hole (mm)	33	33	33	33	33
5	Burden (m)	1	1	1	1	1
6	Spacing (m)	1.2	1.2	1.2	1.2	1.2
7	Depth of blast hole (Ft)	6	6	6	6	6
8	No of blast holes	25	18	25	25	25
9	Explosive charge/ Hole (kg)	0.425	0.425	0.375	0.375	0.375
10	Maximum Charge per delay (kg)	0.425	0.425	0.375	0.375	0.375
11	Total Charge / Blast (kg)	10.625	7.65	9.375	9.375	9.375
12	Initiation System	Nonel	Nonel	Nonel	Nonel	Nonel
13	Initiation Pattern	Row to Row	Row to Row	Row to Row	Row to Row	Row to Row
14	Location of instrument	9°53'41.22"N, 76°38'22.20"E	9°53'43.08"N, 76°38'22.38"E	9°53'45.24"N, 76°38'27.90"E	9°53'45.48"N, 76°38'28.38"E	9°53'45.48"N 76°38'28.38"E
15	Distance (m)	100	145	59	59	74
16	PPV (mm/s)	0.240	0.425	3.124	3.751	2.270
17	Noise (dB)	93.78	120.24	131.04	113.36	129.94
18	Dominant Frequency (Hz)	24.13	23.38	165.9	154.9	108.3

Summary of the Blast Monitoring:

Monitoring Station	Blast Points	Distance (m)	Max Charge Per Delay (Kg)	PPV (mm/s)	Noise (dB)	Dominant Frequency (Hz)
	Blast No 1	283	0.650	0.254	93.23	25.63
M1	Blast No 2	283	0.650	0.632	94.70	50.38
101 1	Blast No 3	283	0.650	0.597	92.60	52.63
	Blast No 4	283	0.650	0.863	93.50	104.00
	Blast No 5	209	0.425	0.825	97.44	53.50
	Blast No 6	209	0.425	0.531	94.58	17.63
M2	Blast No 7	209	0.425	0.463	95.18	50.00
	Blast No 8	209	0.425	0.453	95.30	41.75
	Blast No 9	209	0.425	0.722	96.07	51.13
	Blast No 10	100	0.425	0.821	113.44	111.80
МЗ	Blast No 11	100	0.425	0.240	93.78	24.13
	Blast No 12	145	0.425	0.425	120.24	23.38
	Blast No 13	59	0.375	3.124	131.04	165.90
M4	Blast No 14	59	0.375	3.751	113.36	154.9
	Blast No 15	74	0.375	2.270	129.94	108.3

Table 3: Summary of the Blast monitoring

From the Table 2, it can be observed that the highest peak Particle velocity (PPV) recorded was 3.751 mm/sec at the distance of 59 m in Blast No 14 conducted at the Pit bottom, and the next highest PPV was 3.124 mm/sec at the distance of 59 m in Blast No 13.

The ground vibrations recorded in the Buildings/Structures not belonging to Owner is less than 10 mm/sec and the vibrations recorded in the Building/Structures belonging to Owner is also less than 10 mm/sec. Thus, the Ground Vibration values were within the Permissible limits standards as mentioned by DGMS [Technical Circular: 7/1997].

Use of Nonel detonating system provided required delay time to reduce the maximum charge per delay, which helped in controlling ground vibrations within permissible limits. The highest noise level of 131.04 dB was recorded at the distance of 59 m from blast location in blast No. 13 and the next highest noise level was 129.94 dB at the distance of 74 m from blast location in Blast No 15. The noise level recorded while monitoring in the nearby house is less than 100 dB.

Fly rocks another serious problem associated with blasting operations. It was observed to a distance of 20 m from blast site without muffling arrangement and with muffling the fly rocks was within 5m. This is also due to free face available in all the blasts and also the proper delay timing followed using shock tube detonators.

Remarks: It may therefore, be concluded that the intensity of ground vibrations, Noise and fly rock caused due to blasting operations carried out in Granite Building Stone quarry of Shri. George Kochuparambil in Re-survey Block no 11 & Re-survey no. 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt of Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala., are within Permissible limit.

RECOMMENDATIONS

Blasting operations may be conducted in the Granite Building stone quarry of Shri. George Kochuparambil in Re-Survey Block No 11 and Re-survey No. 354/1, 354/5, 355/1pt, 350, 352/1pt over an extent of 12.2987Ha in Manakkad Village, Thodupuzha taluk, Idukki District, Kerala. With the following recommendations:

- Blasts may be conducted with a maximum of 25 holes in a blast round using 33 mm diameter blast holes drilled with hand held jackhammer drills to a maximum depth of 8 feet (2.4 m), each hole charged with maximum of 650 gm of explosive.
- 2. NONEL detonator & Surface Trunk Line Delay (STLD) may be used for initiation.
- Blasts to be conducted by a Competent Blaster or Mining Mate certificate holder only, following all the rules and regulations stipulated by Director General of Mines Safety (DGMS) and other regulating agencies.
- 4. If fly rock to be restricted to within 10m, muffling arrangement to be made.
- 5. Blasting methodology suggested in Table-4 may be followed
- 6. Blast layouts suggested in Fig No.14 may be used with the available initiation system.

All other rules and regulations imposed by various agencies like DGMS/ Dept. of Mining and Geology/ any other relevant organization to be followed from time to time.

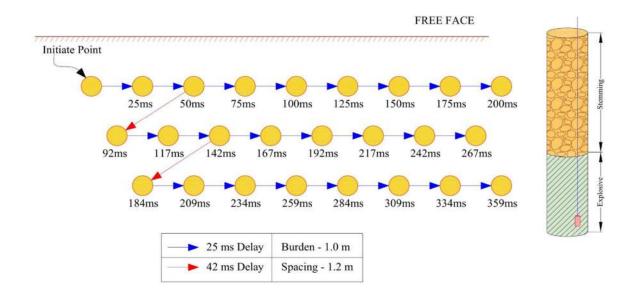


Fig 14: Recommended Blasthole pattern

	1		
S1 No	Parameters	Suggestion- I	Suggestion- II
1	Diameter of the Blast hole (mm)	33	33
2	Burden (m)	1.0	1.0
3	Spacing (m)	1.2	1.2
4	Depth of Blast hole (m)	1.80	2.40
5	No of Blast Holes	Maximum of 25	Maximum of 25
6	Explosive charge/ Hole (gm)	425	650
7	Maximum charge/ Delay (gm)	425	650
8	Total charge/ Blast (kg)	10.625	16.25
9	Initiation system	Short delay detonators	Short delay detonators
10	Initiation Pattern	Row by row	Row by row
11	Delay timing between any two blast holes	At least 25ms	At least 25ms
12	No. of rows	Maximum of 3	Maximum of 3

Table 4: Blasting recommendations

Mr. Cyriac Joseph,

Managing Partner

Global Environment & Mining Services.

BIBLIOGRAPHY

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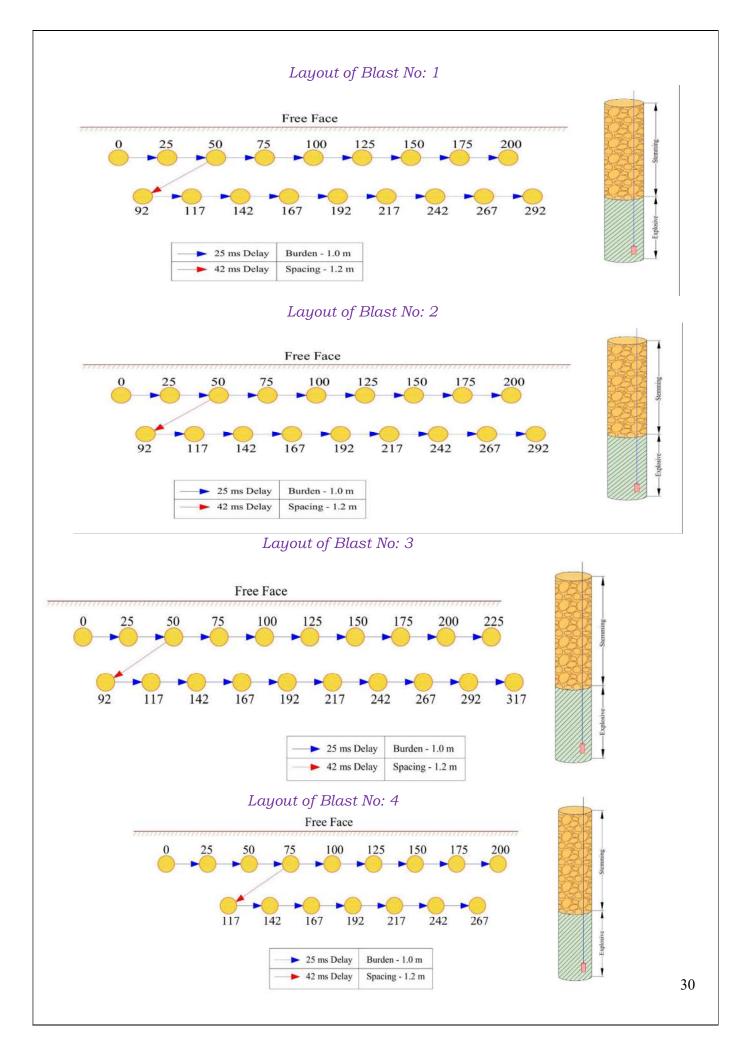
Anon, (1997), "Damage of structures due to blast induced ground vibrations in the mining areas", DGMS (Tech) (S&T) Circular No.7 of 1997 dated 29.08.1997

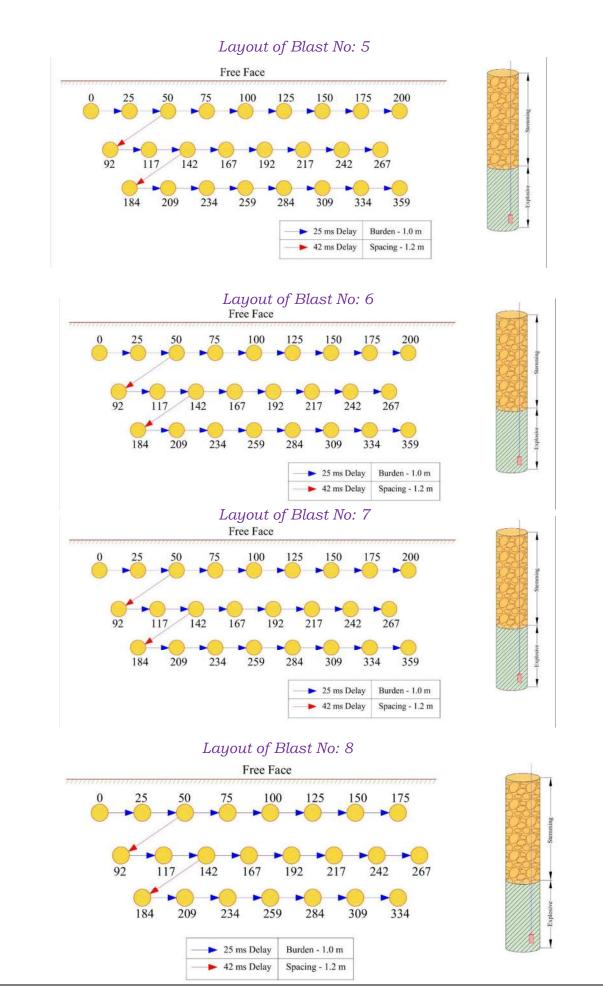
Siskind, D.E., et al, (1980), "Structure response and damage produced by air blast from surface mining", USBM RI 8485.

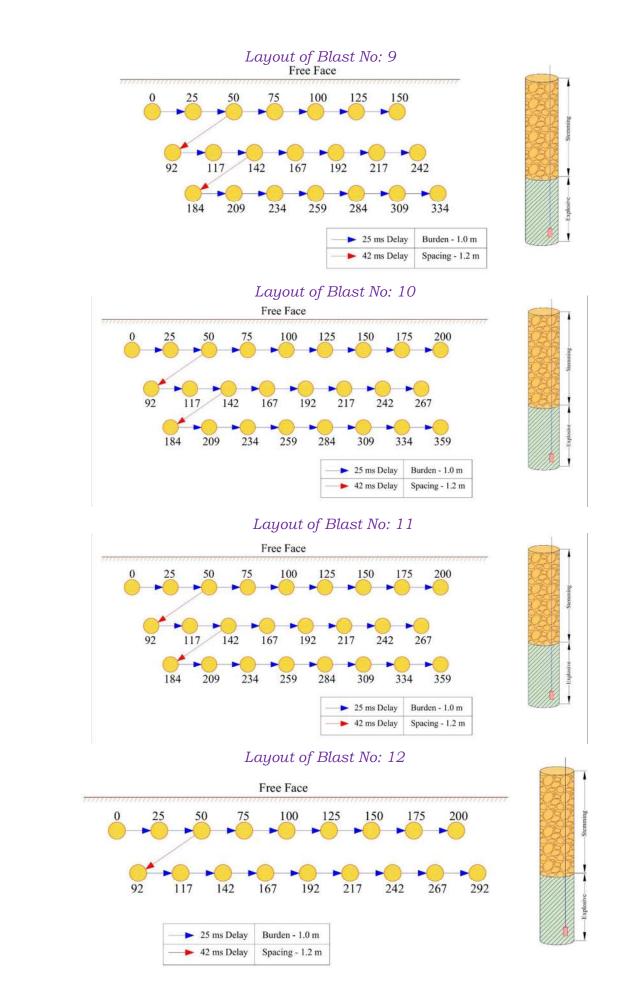
Indian Standard (2001), "Method for blast vibration monitoring. Int J Rock Mech MinSciGeomechAbstr;29(2):145-6

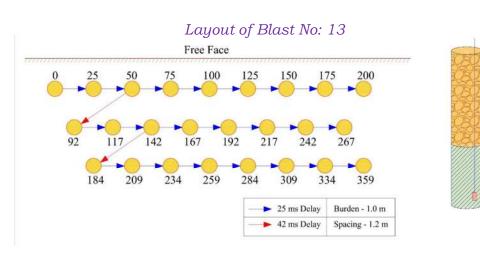
http://www.vulcanhammer.net/svinkin/prediction.php http://terrock.com.au/vibration/blasting.html

APPENDIX – I (LAYOUTS OF BLASTS STUDIES)

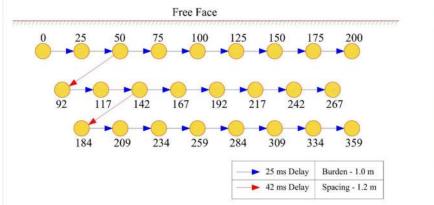




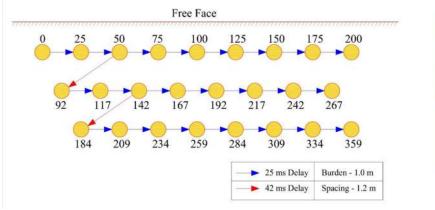




Layout of Blast No: 14



Layout of Blast No: 15



APPENDIX – II (BLAST EVENT REPORTS)



Tran at 09:57:51 March 27, 2023 Serial Number UM18455 V 10-90FB Micromate ISEE Date/Time Geo: 0.127 mm/s, Mic: 2.000 pa.(L) **Battery Level** 3.8 Volts **Trigger Source** Range Geo: 254.0 mm/s **Unit Calibration** November 18, 2021 by UES New Delhi **Record Time** 5.0 sec at 1024 sps **File Name** TEMP.EVT Scaled Distance 400.2 (283.0 m, 0.5 kg) Operator/Setup: Operator/factory.MMB Notes DGMS India (A) STATION-2 Location: Client: GEORGE KOCHUPARAMBIL Permissible Ground Vibration 254 User Name: GLOBAL ENVIRONMENT AND MINING SERVICES 200-General: No velocity above 1.0 mm/s 100-Microphone Linear Weighting PSPL 0.729 pa.(L) at 3.584 sec ZC Freq N/A Channel Test Passed (Freq = 19.7 Hz Amp = 1227 mv) 50 Long Tran Vert Velocity (mm/s) PPV 0.229 0.102 0.158 mm/s а 20-ZC Freq 39 39 64 Hz Time (Rel. to Trig) 0.015 0.008 0.019 sec h Peak Acceleration 0.006 0.011 0.007 g 10-Peak Displacement 0.001 0.000 0.000 mm Sensor Check Passed Passed Passed Frequency 7.5 7.3 7.7 Ηz 5 **Overswing Ratio** 3.8 4.3 3.7 Peak Vector Sum 0.254 mm/s at 0.015 sec N/A: Not Applicable 2 1-100 > 10 20 50 Frequency (Hz) Tran: + Vert: x Long: ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures MicL 0.0 0.0 Long Vert 0.0 Tran 0.0

0.0

1.0

3.0

4.0

2.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Sensor Check

5.0



FFT Report

 Date/Time
 Tran at 09:57:51 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

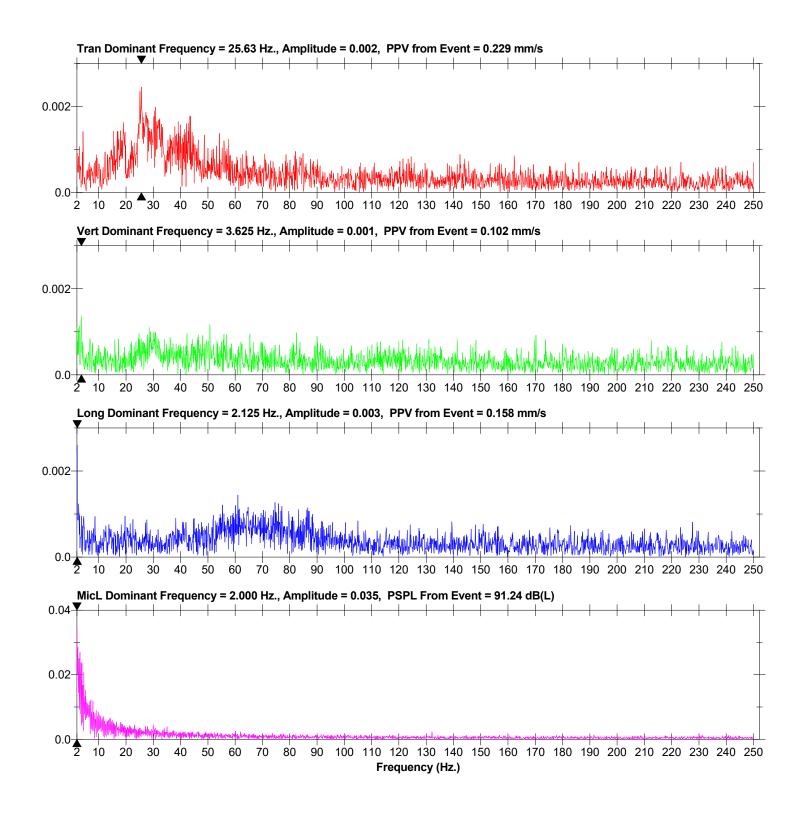
 Record Time
 5.0 sec at 1024 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:



Inclanta
Instantel

Date/Time Vert at 09:58:42 March 27, 2023 Trigger Source Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Range Geo: 254.0 mm/s Record Time 5.0 sec at 1024 sps Operator/Setup: Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)
Notes Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:	DGMS India (A) 254 Permissible Ground Vibration 200 No velocity above 1.0 mm/s
MicrophoneLinear WeightingPSPL1.086 pa.(L) at 0.881 secZC FreqN/AChannel TestPassed (Freq = 19.7 Hz Amp = 1228 mv)	100
Tran Vert Long (s) PPV 0.552 0.339 0.307 mm/s (b) ZC Freq >100 >100 >100 Hz (b) (c) Time (Rel. to Trig) 0.188 0.144 0.165 sec (c) (c) (c) (c) Peak Acceleration 0.043 0.030 0.023 g (c) (20 10 5
Peak Vector Sum 0.632 mm/s at 0.188 sec N/A: Not Applicable	2
	1
, Y , , , , , , , , , , , , , , , , , , ,	a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	
Long	0.0
Vert	0.0
Tran 0.0 1.0 2.0	0.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = ►------



FFT Report

 Date/Time
 Vert at 09:58:42 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 1024 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)

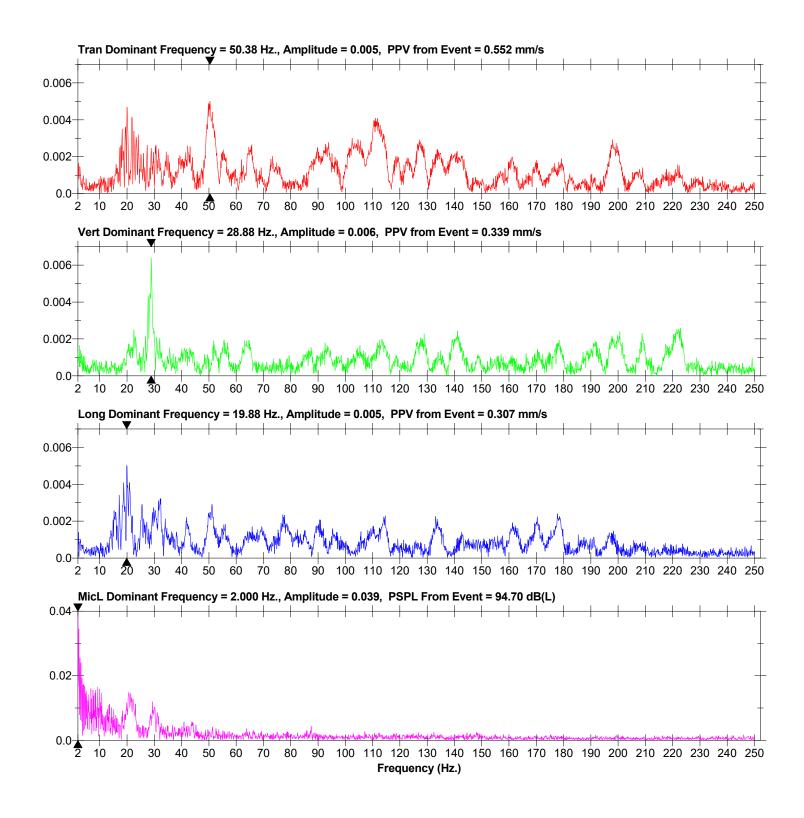
Notes

 Location:
 STATION-2

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Date/TimeVert at 10:02:34 March 27, 2023Trigger SourceGeo: 0.127 mm/s, Mic: 2.000 pa.(L)RangeGeo: 254.0 mm/sRecord Time5.0 sec at 1024 spsOperator/Setup:Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)
NotesLocation:STATION-2Client:GEORGE KOCHUPARAMBILUser Name:GLOBAL ENVIRONMENT AND MINING SERVICESGeneral:	DGMS India (A) 254 Permissible Ground Vibration 200 No velocity above 1.0 mm/s
MicrophoneLinear WeightingPSPL0.853 pa.(L) at 1.023 secZC FreqN/AChannel TestPassed (Freq = 19.7 Hz Amp = 1231 mv)	100
Tran Vert Long (g) PPV 0.512 0.473 0.489 mm/s ZC Freq 64 >100 >100 Hz Time (Rel. to Trig) 0.239 0.292 0.251 sec 2000 Peak Acceleration 0.049 0.032 0.036 g 9000 Peak Displacement 0.001 0.001 0.001 mm 9000 Sensor Check Passed Passed Passed Passed Passed Frequency 7.5 7.3 7.7 Hz 1000 1000 Overswing Ratio 3.8 4.3 3.7 1000 1000 1000	20 10 5
Peak Vector Sum 0.597 mm/s at 0.291 sec N/A: Not Applicable	2
	1 2 5 10 20 50 100 > Frequency (Hz) Tran: + Vert: x Long: Ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	
Long	0.0
Vert	0.0
Tran 0.0 1.0 2.0	0.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = ►------

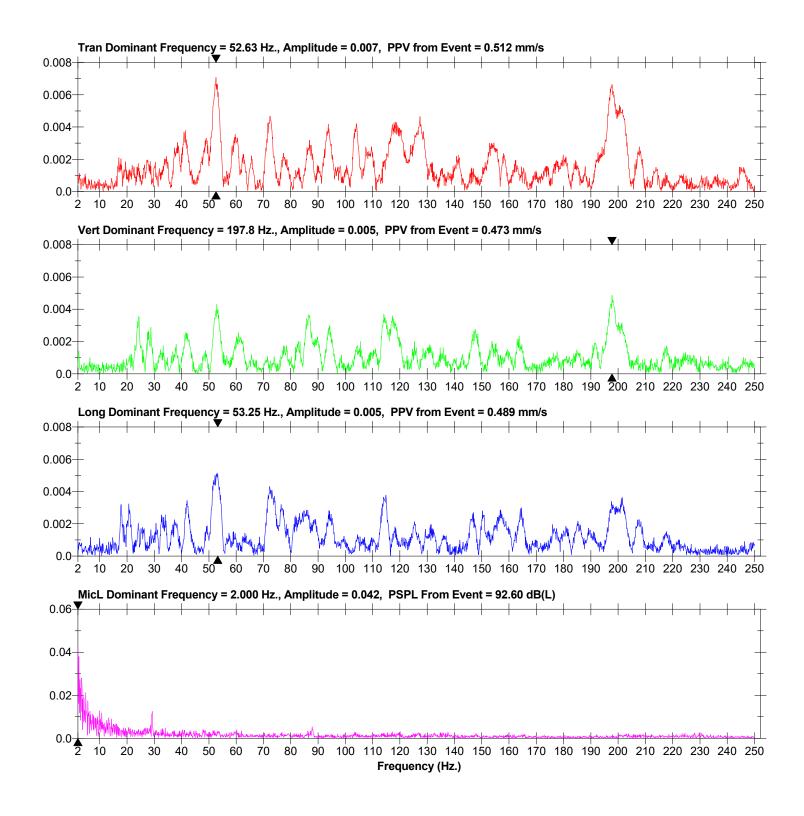


FFT Report

Date/Time Vert at 10:02:34 March 27, 2023 Serial Number UM18455 V 10-90FB Micromate ISEE **Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L) **Battery Level** 3.8 Volts Unit Calibration Range Geo: 254.0 mm/s November 18, 2021 by UES New Delhi **Record Time** 5.0 sec at 1024 sps **File Name** TEMP.EVT Scaled Distance 400.2 (283.0 m, 0.5 kg) Operator/Setup: Operator/factory.MMB

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:



Inclanta
Instantel

Date/Time Vert at 10:03:00 March 27, 2023 Trigger Source Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Range Geo: 254.0 mm/s Record Time 5.0 sec at 1024 sps Operator/Setup: Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)
NotesLocation:STATION-2Client:GEORGE KOCHUPARAMBILUser Name:GLOBAL ENVIRONMENT AND MINING SERVICESGeneral:	DGMS India (A) 254 Permissible Ground Vibration 200 No velocity above 1.0 mm/s
MicrophoneLinear WeightingPSPL0.946 pa.(L) at 0.938 secZC FreqN/AChannel TestPassed (Freq = 19.7 Hz Amp = 1232 mv)	
Tran Vert Long (r) PPV 0.741 0.394 0.394 mm/s U ZC Freq 64 >100 >100 Hz U U Time (Rel. to Trig) 0.148 0.129 0.173 sec Y Y Peak Acceleration 0.053 0.031 0.025 g O O O Passed S Y <td>20</td>	20
Peak Vector Sum 0.863 mm/s at 0.148 sec N/A: Not Applicable	2
	1 2 5 10 20 50 100 > Frequency (Hz) Tran: + Vert: × Long: Ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	
Long	0.0
Vert	0.0
Tran 0.0 1.0 2.0	0.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = ►------



FFT Report

 Date/Time
 Vert at 10:03:00 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

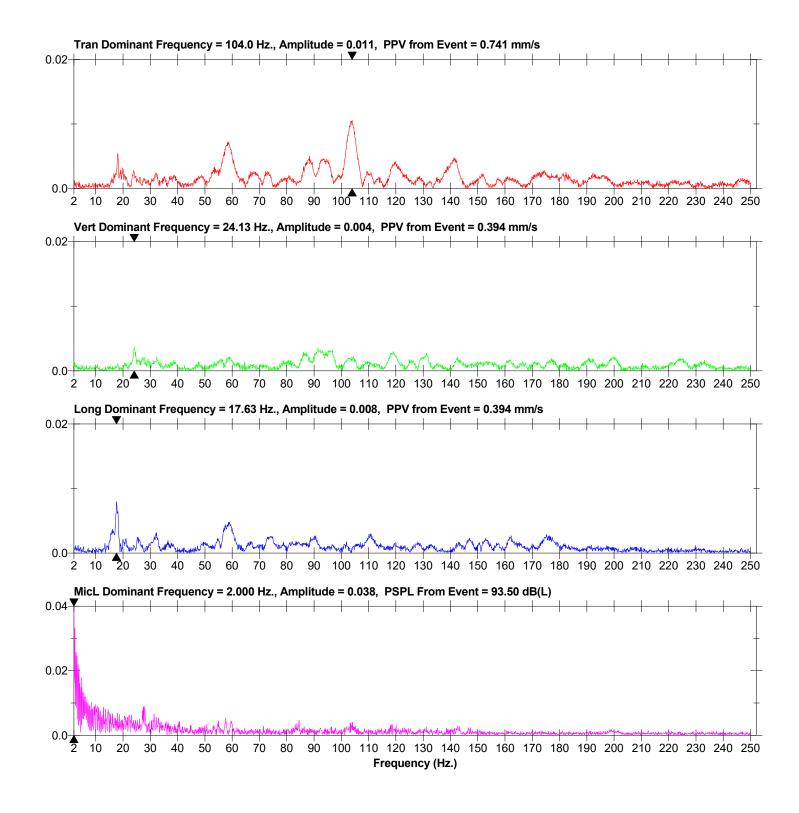
 Record Time
 5.0 sec at 1024 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance400.2 (283.0 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





Long at 10:20:28 March 27, 2023 Serial Number UM18455 V 10-90FB Micromate ISEE Date/Time Geo: 0.127 mm/s, Mic: 2.000 pa.(L) **Battery Level** 3.8 Volts **Trigger Source** Range Geo: 254.0 mm/s **Unit Calibration** November 18, 2021 by UES New Delhi **Record Time** 5.0 sec at 2048 sps **File Name** TEMP.EVT Scaled Distance 296.7 (209.8 m, 0.5 kg) Operator/Setup: Operator/factory.MMB Notes DGMS India (A) STATION-2 Location: Client: GEORGE KOCHUPARAMBIL Permissible Ground Vibration 254 User Name: GLOBAL ENVIRONMENT AND MINING SERVICES 200-General: No velocity above 1.0 mm/s 100-Microphone Linear Weighting PSPL 1.490 pa.(L) at 0.652 sec ZC Freq N/A Channel Test Passed (Freq = 19.7 Hz Amp = 1219 mv) 50 Tran Vert Long Velocity (mm/s) PPV 0.323 0.772 0.504 mm/s а 20-ZC Freq 47 47 68 Hz Time (Rel. to Trig) 0.083 0.032 0.047 sec h Peak Acceleration 0.013 0.028 0.025 g 10-Peak Displacement 0.003 0.001 0.002 mm Sensor Check Passed Passed Passed Frequency 7.3 7.3 7.3 Ηz 5 **Overswing Ratio** 4.1 4.2 4.2 Peak Vector Sum 0.825 mm/s at 0.083 sec N/A: Not Applicable 2 1-100 > 10 20 50 Frequency (Hz) Tran: + Vert: x Long: ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures MicL 0.0 0.0 Long Vert 0.0 Tran 0.0

2.0

1.0

5.0

0.0

3.0

4.0



FFT Report

 Date/Time
 Long at 10:20:28 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

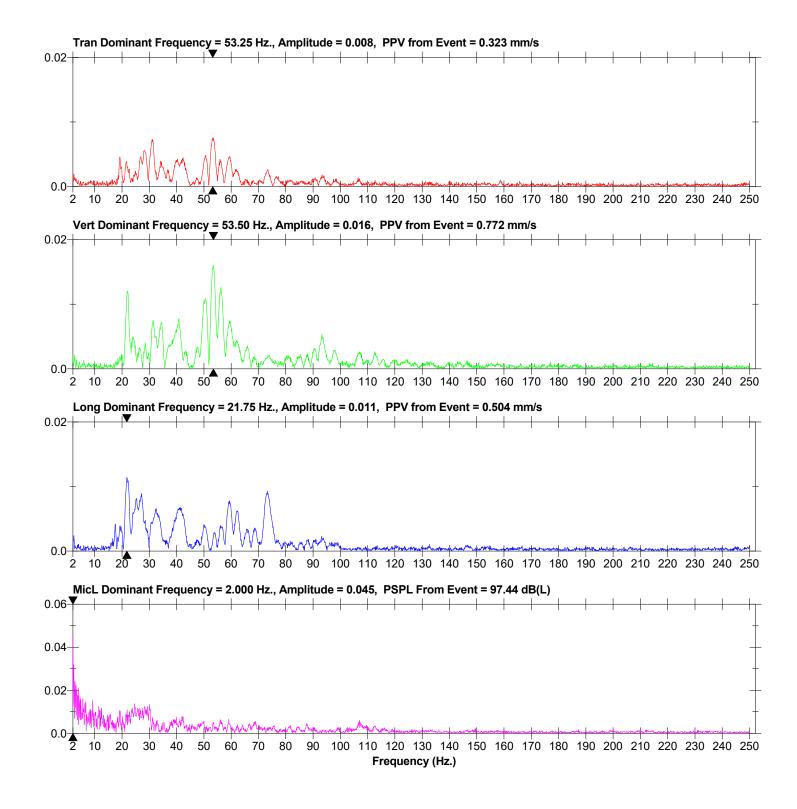
 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name______TEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





Date/Time Trigger Source Range Record Time Operator/Setup:	Vert at 10:21:10 March 27, 2023 Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Geo: 254.0 mm/s 5.0 sec at 2048 sps Operator/factory.MMB	Serial Number Battery Level Unit Calibratior File Name Scaled Distanc	UM18455 V 10-90FB Micromate ISEE 3.8 Volts November 18, 2021 by UES New Del TEMP.EVT e 296.7 (209.8 m, 0.5 kg)	
	TION-2		DGMS India (A)	
	DRGE KOCHUPARAMBIL DBAL ENVIRONMENT AND MINING SERVICES	254	Permissible Ground Vibration	++++++++-+
Microphone Li PSPL 1. ZC Freq N	near Weighting 071 pa.(L) at 0.331 sec A assed (Freq = 19.7 Hz Amp = 1221 mv)	100 <u></u> 50	No velocity above 1.0 mm/s	+
PPV ZC Freq Time (Rel. to Trig Peak Acceleratio Peak Displaceme Sensor Check Frequency Overswing Rat	n 0.015 0.028 0.021 g nt 0.001 0.001 0.002 mm Passed Passed Passed 7.3 7.3 7.3 Hz	20		a
Peak Vector Sun N/A: Not Applica	0.531 mm/s at 0.248 sec ble	-		+
		2	I	_
		1	5 10 20	50 100 >
			Frequency (Hz) Tran: + Vert: x Long: ∅	
-			a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures	
MicL	-+ + + + + + + + + + + + + + + + + + +			0.0
Long	······································			0.0
Vert	******			0.0
Tran				0.0

0.0

1.0

3.0

4.0

2.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = ►------

Sensor Check

5.0



 Date/Time
 Vert at 10:21:10 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

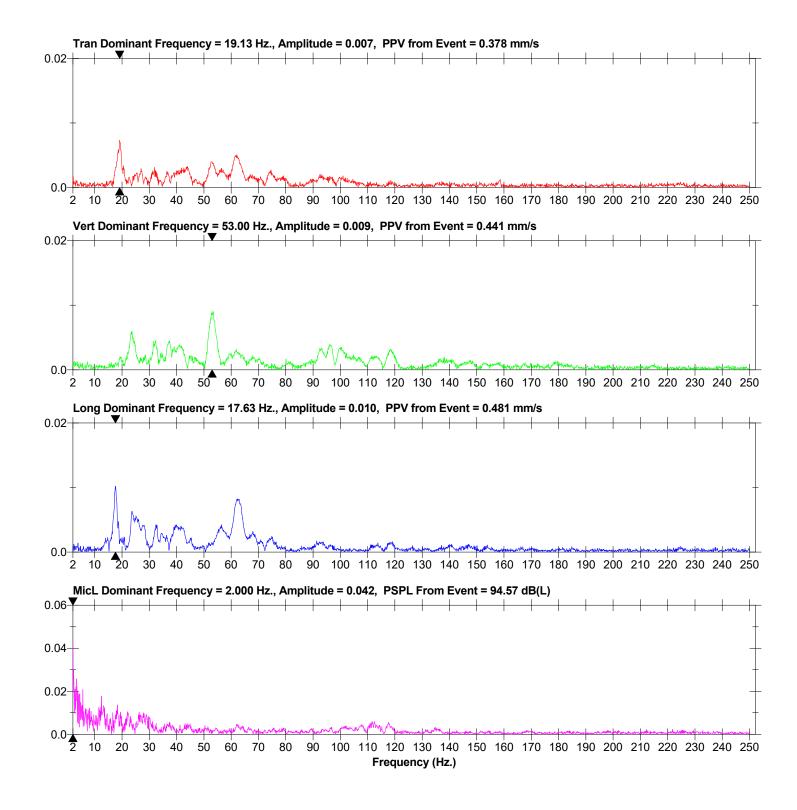
 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name______TEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





Date/TimeVert at 10:29:34 March 27, 2023Trigger SourceGeo: 0.127 mm/s, Mic: 2.000 pa.(L)RangeGeo: 254.0 mm/sRecord Time5.0 sec at 2048 spsOperator/Setup:Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)	
NotesLocation:STATION-2Client:GEORGE KOCHUPARAMBILUser Name:GLOBAL ENVIRONMENT AND MINING SERVICESGeneral:Microphone:Linear WeightingPSPL1.148 pa.(L) at 0.735 sec.ZC FreqN/AChannel Test:Passed (Freq = 19.7 Hz Amp = 1228 mv) \bigvee 0.2290.4490.434Microphone:Reserve to 200 gPPV0.3210.2290.4490.434mm/sgreak Acceleration0.0120.0250.020 gPeak Acceleration0.0120.0010.001Sensor CheckPassed Passed PassedFrequency7.37.37.37.37.3Overswing Ratio4.14.14.2Peak Vector Sum0.463 mm/s at 0.269 secMicrophicable:	DGMS India (A)	
	1 1 2 5 10 20 50 100 Frequency (Hz) Tran: + Vert: × Long: Ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures	>
MicL		0.0
Long		0.0
Vert		0.0

Trigger =

0.0

1.0

Tran

3.0

2.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Sensor Check

5.0

4.0

0.0



 Date/Time
 Vert at 10:29:34 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)

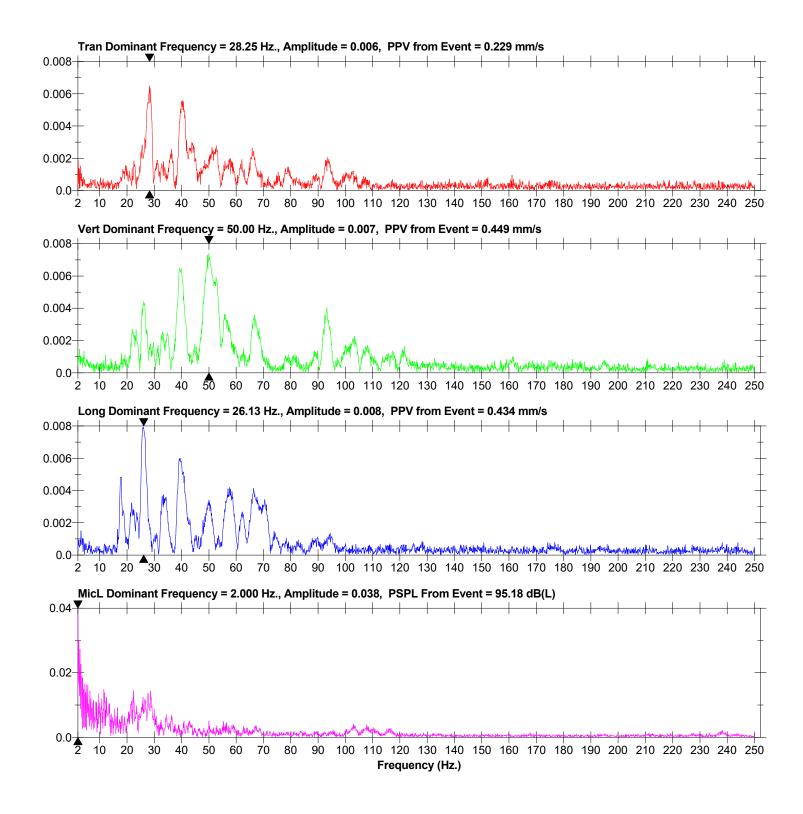
Notes

 Location:
 STATION-2

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Date/Time Vert at 10:30:01 March 27, 2023 Trigger Source Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Range Geo: 254.0 mm/s Record Time 5.0 sec at 2048 sps Operator/Setup: Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)
Notes Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:	DGMS India (A) 254 Permissible Ground Vibration 200 No velocity above 1.0 mm/s
MicrophoneLinear WeightingPSPL1.164 pa.(L) at 0.742 secZC FreqN/AChannel TestPassed (Freq = 19.7 Hz Amp = 1223 mv)	
Tran Vert Long (%) PPV 0.363 0.394 0.410 mm/s ZC Freq 54 73 49 Hz Time (Rel. to Trig) 0.107 0.065 0.127 sec Peak Acceleration 0.016 0.023 0.018 g Peak Displacement 0.001 0.001 mm mm Sensor Check Passed Passed Passed Passed Frequency 7.3 7.3 7.3 Hz Overswing Ratio 4.1 4.2 4.2 4.2 Peak Vector Sum 0.453 mm/s at 0.126 sec N/A: Not Applicable N/A: Not Applicable Second Applicable	a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	
Long	0.0
Vert	0.0

Trigger =

0.0

1.0

Tran

3.0

2.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div

Sensor Check

5.0

4.0

0.0



 Date/Time
 Vert at 10:30:01 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)

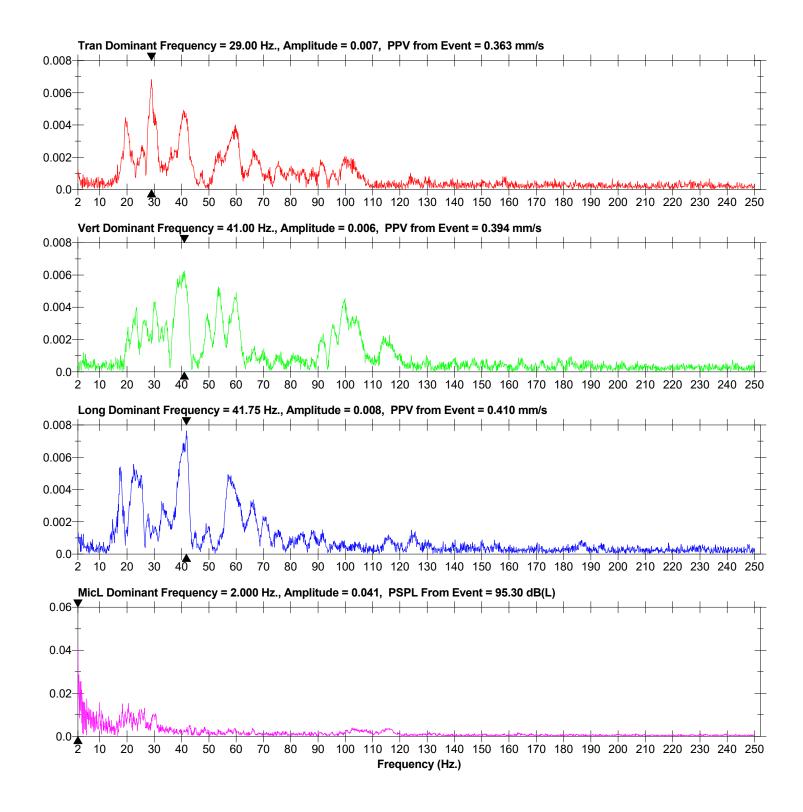
Notes

 Location:
 STATION-2

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Velocity (mm/s)

Date/Time Long at 10:30:26 March 27, 2023 **Trigger Source** Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Range Geo: 254.0 mm/s **Record Time** 5.0 sec at 2048 sps Operator/Setup: Operator/factory.MMB

Notes

STATION-2 Location: Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:

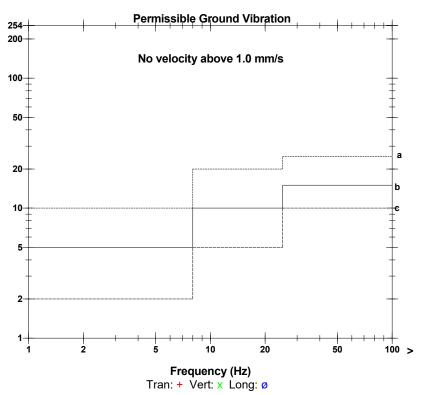
Microphone	Linear Weighting
PSPL	1.272 pa.(L) at 0.738 sec
ZC Freq	N/A
Channel Test	Passed (Freq = 19.7 Hz Amp = 1227 mv)

	Tran	Vert	Long	
PPV	0.402	0.638	0.520	mm/s
ZC Freq	68	54	68	Hz
Time (Rel. to Trig)	0.107	0.083	0.077	sec
Peak Acceleration	0.020	0.035	0.025	g
Peak Displacement	0.002	0.002	0.002	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.2	

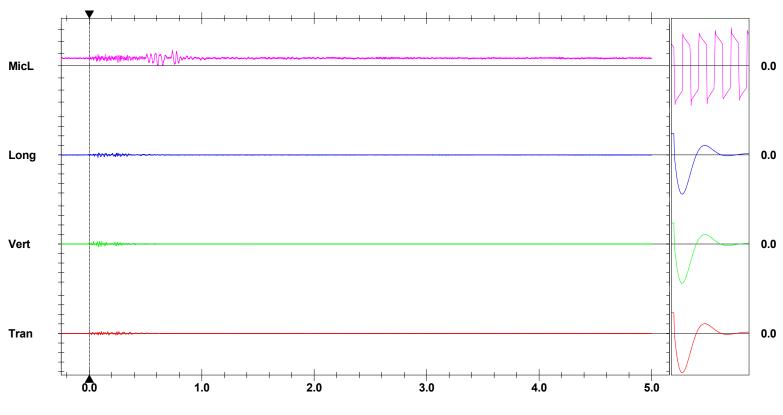
Peak Vector Sum 0.722 mm/s at 0.083 sec N/A: Not Applicable

Serial Number UM18455 V 10-90FB Micromate ISEE **Battery Level** 3.8 Volts Unit Calibration November 18, 2021 by UES New Delhi **File Name** TEMP.EVT Scaled Distance 296.7 (209.8 m, 0.5 kg)

DGMS India (A)



a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = -

--- -



 Date/Time
 Long at 10:30:26 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

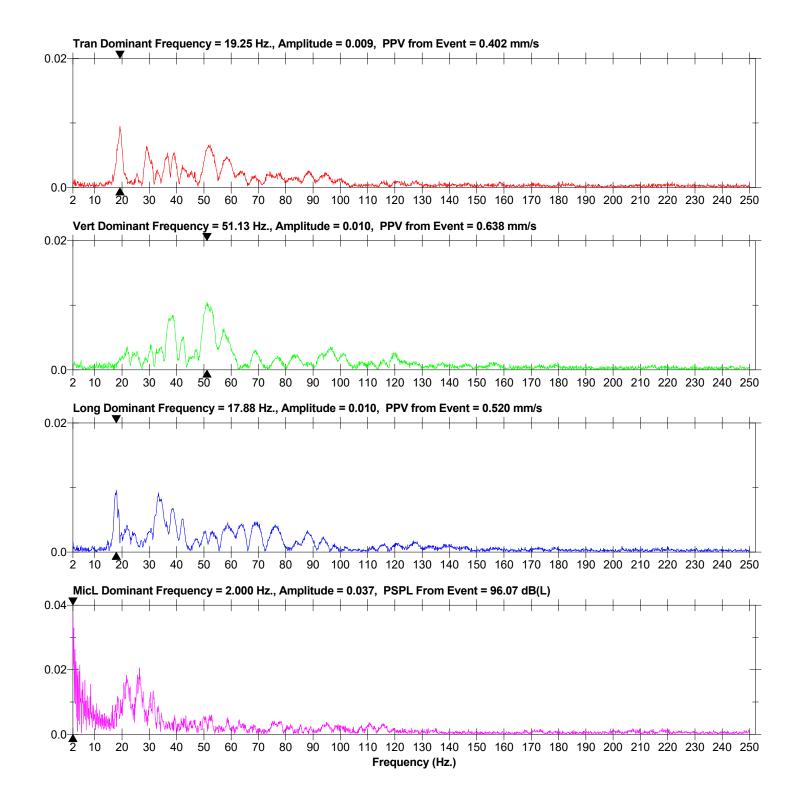
 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name______TEMP.EVTScaled Distance296.7 (209.8 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





📂 instantel	event Report	
Date/TimeLong at 12:37:10 March 27, 2023Trigger SourceGeo: 0.127 mm/s, Mic: 2.000 pa.(L)RangeGeo: 254.0 mm/sRecord Time5.0 sec at 4096 spsOperator/Setup:Operator/factory.MMB	Serial NumberUM18455 V 10-90FB MicromaBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES NFile NameTEMP.EVTScaled Distance142.6 (100.8 m, 0.5 kg)	
Notes	DGMS India (A)	
Location: STATION-2 Client: GEORGE KOCHUPARAMBIL	Permissible Ground Vibra	tion
User Name: GLOBAL ENVIRONMENT AND MINING SERVIO General:	No velocity above 1.0 mn	nle
MicrophoneLinear WeightingPSPL9.403 pa.(L) at 0.563 secZC Freq31.0 HzChannel TestPassed (Freq = 19.7 Hz Amp = 1074 mv)		1/5
Tran Vert Long	(s/i	
PPV 0.370 0.520 0.741 mm/s ZC Freq 120 73 93 Hz Time (Pol to Trip) 0.226 0.494 0.404 occ	20	
Time (Rel. to Trig) 0.236 0.184 0.191 sec Peak Acceleration 0.049 0.033 0.069 g Peak Displacement 0.001 0.001 0.001 mm	Aelocity (mm/s)	
Sensor CheckPassedPassedPassedFrequency7.37.37.7	A 46	
Overswing Ratio 4.0 4.1 3.7	5]
Peak Vector Sum 0.821 mm/s at 0.191 sec	+	
	2	
	Frequency (Hz)	
	Tran: + Vert: x Long: ø	
	a)Industrial Buildings b)Domestic houses/structure c)Historic objects, sensitive struc	
	+ + + + + + + + + + + + + + + + + + + +	+-+
MicL Michael M		
Long		
		-

0.0 0.0 0.0 Vert Tran 0.0 5.0 0.0 1.0 2.0 3.0 4.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 5.000 pa.(L)/div Trigger = ►------

Sensor Check

а

b £

100 >

50



Date/Time Long at 12:37:10 March 27, 2023 Serial Number UM18455 V 10-90FB Micromate ISEE Geo: 0.127 mm/s, Mic: 100.00 dB(L) **Battery Level** 3.8 Volts **Trigger Source** Range Geo: 254.0 mm/s **Unit Calibration** November 18, 2021 by UES New Delhi **Record Time** 5.0 sec at 4096 sps **File Name** TEMP.EVT Scaled Distance 142.6 (100.8 m, 0.5 kg) Operator/Setup: Operator/factory.MMB

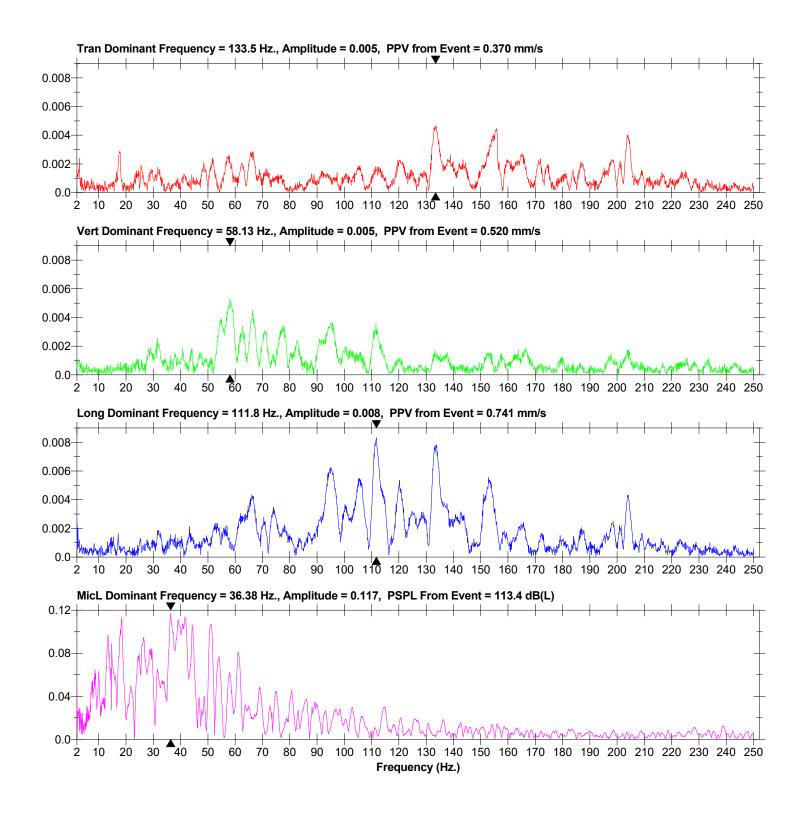
Notes

 Location:
 STATION-2

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Date/TimeVert at 12:38:44 March 27, 2023Trigger SourceGeo: 0.127 mm/s, Mic: 2.000 pa.(L)RangeGeo: 254.0 mm/sRecord Time5.0 sec at 4096 spsOperator/Setup:Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance142.6 (100.8 m, 0.5 kg)
NotesLocation:STATION-2Client:GEORGE KOCHUPARAMBILUser Name:GLOBAL ENVIRONMENT AND MINING SERVICESGeneral:GLOBAL ENVIRONMENT AND MINING SERVICES	DGMS India (A) 254
MicrophoneLinear WeightingPSPL0.977 pa.(L) at 4.529 secZC FreqN/AChannel TestPassed (Freq = 19.7 Hz Amp = 1085 mv)	
Tran Vert Long (s) PPV 0.205 0.173 0.173 mm/s U ZC Freq N/A N/A N/A Hz Vio Vio Time (Rel. to Trig) 4.985 2.085 4.966 sec Vio V	20
Peak Vector Sum 0.240 mm/s at 4.985 sec N/A: Not Applicable	
	< 1 2 5 10 20 50 100 > Frequency (Hz) Tran: + Vert: × Long: Ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	0.0
Long	0.0
Vert	0.0
Tran 0.0 1.0 2.0	

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 1.000 pa.(L)/div Trigger = ►------



 Date/Time
 Vert at 12:38:44 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

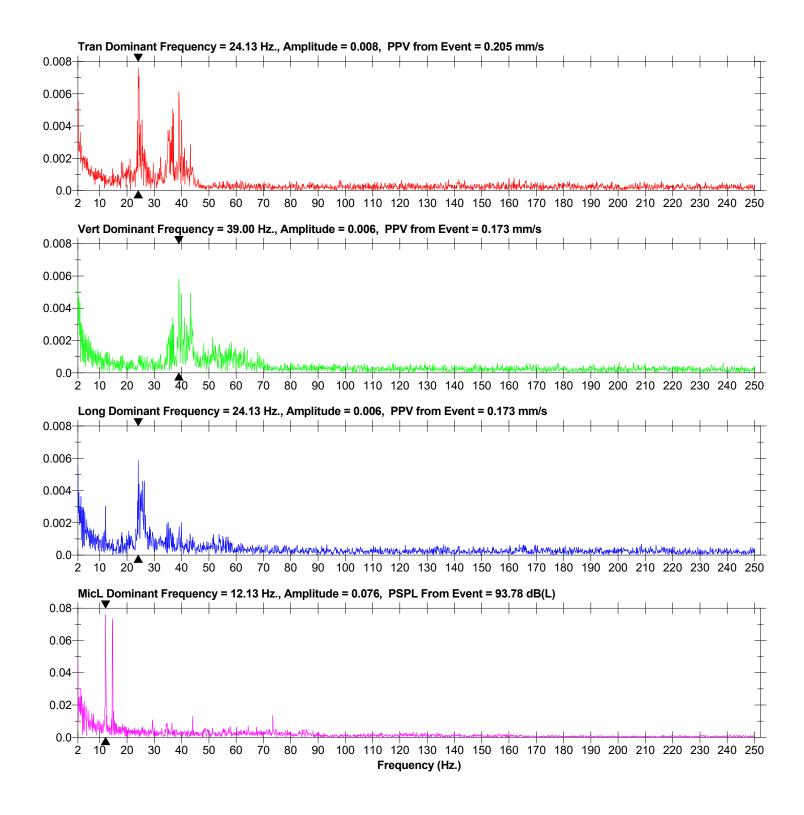
 Record Time
 5.0 sec at 4096 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance142.6 (100.8 m, 0.5 kg)

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





Velocity (mm/s)

Date/Time	Tran at 12:44:32 March 27, 2023
Trigger Source	Geo: 0.127 mm/s, Mic: 2.000 pa.(L)
Range	Geo: 254.0 mm/s
Record Time	5.0 sec at 2048 sps
Operator/Setup:	Operator/factory.MMB

Notes

Location: STATION-2 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:

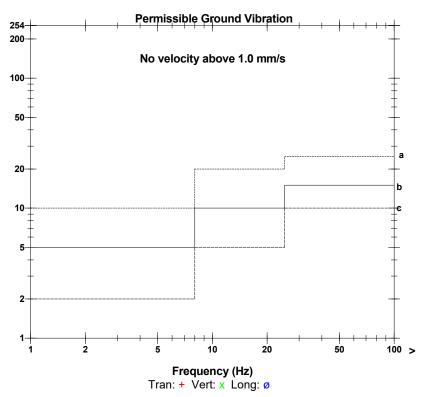
Microphone	Linear Weighting
PSPL	20.57 pa.(L) at 0.354 sec
ZC Freq	26 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 1085 mv)

	Tran	Vert	Long	
PPV	0.378	0.236	0.221	mm/s
ZC Freq	51	43	37	Hz
Time (Rel. to Trig)	0.192	0.311	0.286	sec
Peak Acceleration	0.015	0.016	0.013	g
Peak Displacement	0.002	0.001	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	3.9	4.0	4.1	

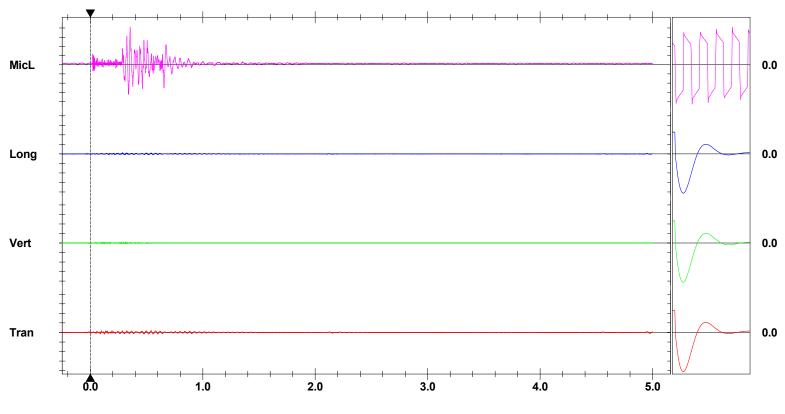
Peak Vector Sum 0.425 mm/s at 0.541 sec

Serial Number UM18455 V 10-90FB Micromate ISEE **Battery Level** 3.8 Volts Unit Calibration November 18, 2021 by UES New Delhi **File Name** TEMP.EVT Scaled Distance 204.4 (144.5 m, 0.5 kg)

DGMS India (A)



a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 5.000 pa.(L)/div Trigger = -

---4



 Date/Time
 Tran at 12:44:32 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

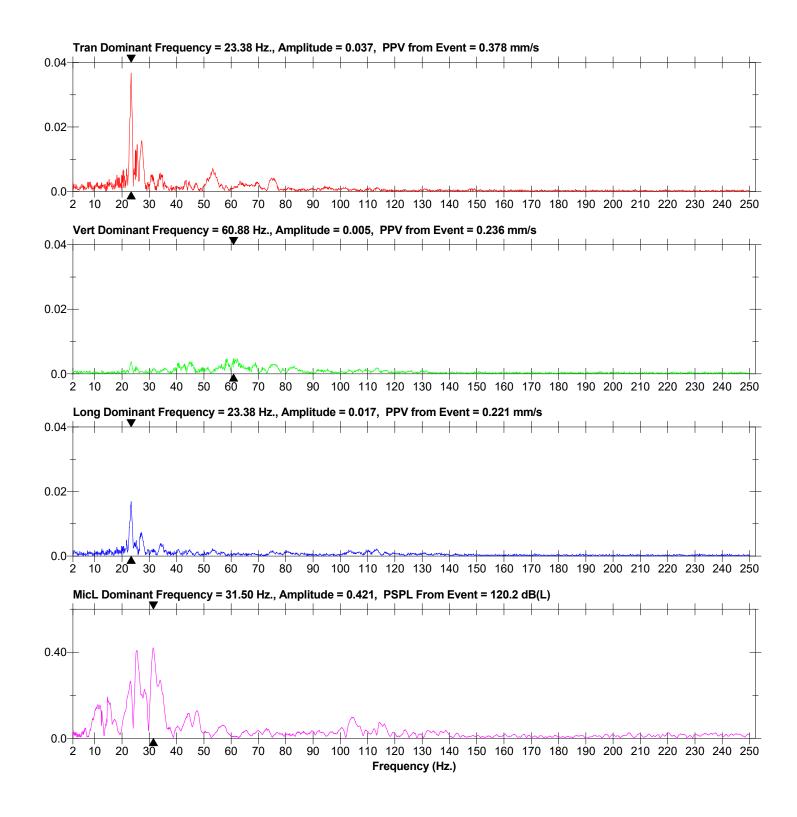
Notes

 Location:
 STATION-2

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Date/TimeMicL at 12:55:11 March 27, 2023Trigger SourceGeo: 0.127 mm/s, Mic: 2.000 pa.(L)RangeGeo: 254.0 mm/sRecord Time5.0 sec at 2048 spsOperator/Setup:Operator/factory.MMB	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance83.2 (58.8 m, 0.5 kg)
Notes Location: STATION-3	DGMS India (A)
Location: STATION-3 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:	254
MicrophoneLinear WeightingPSPL71.28 pa.(L) at 0.219 secZC Freq73 HzChannel TestPassed (Freq = 19.7 Hz Amp = 1104 mv)	100
Tran Vert Long (%) PPV 3.578 3.952 2.491 mm/s ZC Freq 146 146 146 Hz A Time (Rel. to Trig) 0.131 0.127 0.398 sec A Peak Acceleration 0.350 0.479 0.260 g G G Peak Displacement 0.003 0.021 0.003 mm G G G G Sensor Check Passed Passed Passed Passed F G Hz G Hz G Hz G Hz Hz G Hz Hz	20- 10- 5-
Peak Vector Sum 3.124 mm/s at 0.127 sec	+ +
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Frequency (Hz) Tran: + Vert: × Long: Ø
	a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL	
Long	0.0
Vert	0.0
Tran	0.0
	3.0 4.0 5.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 20.00 pa.(L)/div Trigger =

Sensor Check



 Date/Time
 MicL at 12:55:11 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile Name_____TEMP.EVTScaled Distance83.2 (58.8 m, 0.5 kg)

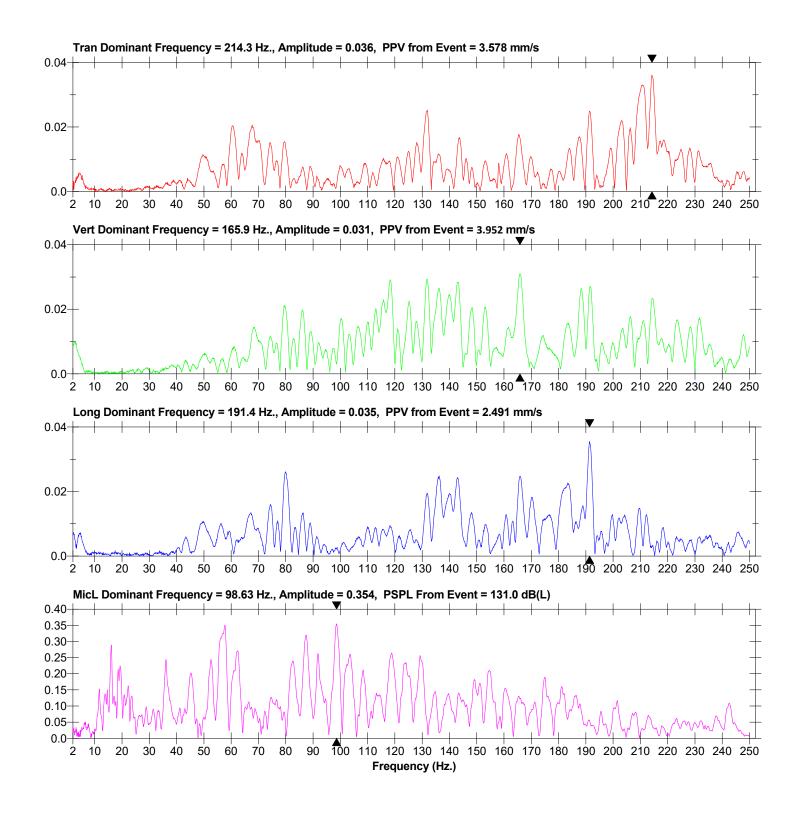
Notes

 Location:
 STATION-3

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

 General:
 Client:





Date/Time Trigger Source Range Record Time Operator/Setup:	MicL at 12:56:00 March 27, 2023 Geo: 0.127 mm/s, Mic: 2.000 pa.(L) Geo: 254.0 mm/s 5.0 sec at 2048 sps : Operator/factory.MMB	Serial Number Battery Level Unit Calibration File Name Scaled Distance	UM18455 V 10-90FB Micromate IS 3.8 Volts November 18, 2021 by UES New D TEMP.EVT 83.2 (58.8 m, 0.5 kg)	
Client: GE	ATION-3 EORGE KOCHUPARAMBIL OBAL ENVIRONMENT AND MINING SERVICES	254	DGMS India (A)	
PSPL 9 ZC Freq 4 Channel Test F	Linear Weighting 9.309 pa.(L) at 0.269 sec 13 Hz Passed (Freq = 19.7 Hz Amp = 1102 mv) Tran Vert Long @	100		
PPV ZC Freq Time (Rel. to Tri Peak Acceleration Peak Displacem Sensor Check Frequency Overswing Ra	on 0.461 0.918 0.504 g nent 0.021 0.040 0.005 mm Passed Passed Passed 7.3 7.3 7.3 Hz atio 4.0 4.1 4.1	20		a b
Peak Vector Su	m 3.751 mm/s at 0.116 sec			$\begin{array}{c} + & + & + & + & + & + & + \\ + & & & & &$
		c	Frequency (Hz) Tran: + Vert: × Long: ø a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures	
MicL			· · · · · · · · · · · · · · · · · · ·	0.0
Long				0.0
Vert				0.0
Tran			-+ -+ -+ -+ -+	0.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 5.000 pa.(L)/div Trigger = ►------

2.0

1.0

Sensor Check

5.0

0.0

3.0

4.0



 Date/Time
 MicL at 12:56:00 March 27, 2023

 Trigger Source
 Geo: 0.127 mm/s, Mic: 100.00 dB(L)

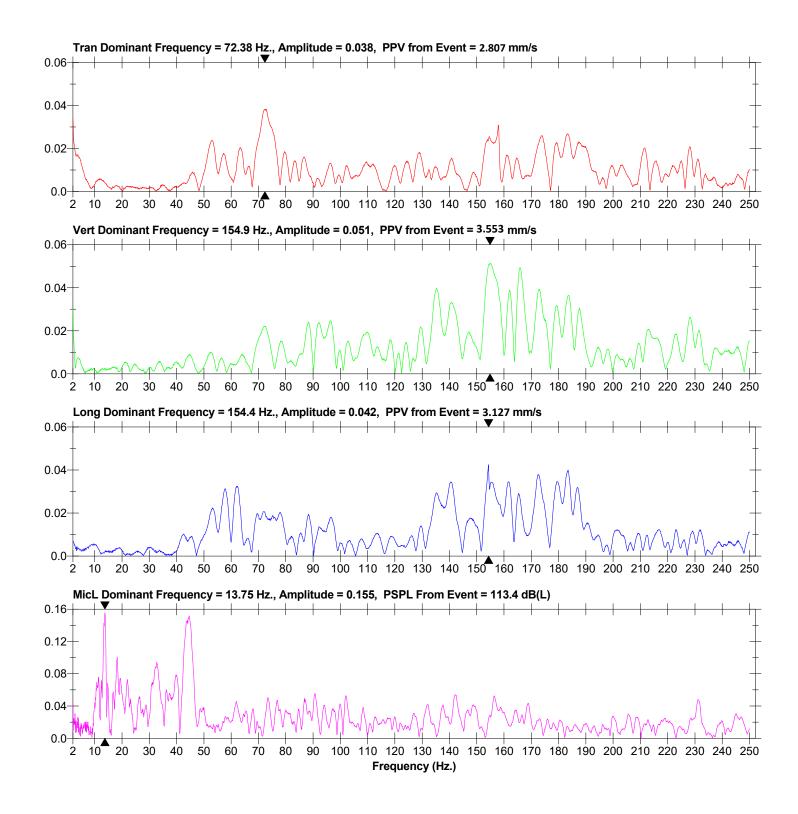
 Range
 Geo: 254.0 mm/s

 Record Time
 5.0 sec at 2048 sps

 Operator/Setup:
 Operator/factory.MMB

Notes

Location: STATION-3 Client: GEORGE KOCHUPARAMBIL User Name: GLOBAL ENVIRONMENT AND MINING SERVICES General:





Date/Time Trigger Source Range Record Time Operator/Setup:	Geo: 254.0 mm/s 5.0 sec at 2048 sps	Serial NumberUM18455 V 10-90FB Micromate ISEEBattery Level3.8 VoltsUnit CalibrationNovember 18, 2021 by UES New DelhiFile NameTEMP.EVTScaled Distance104.0 (73.5 m, 0.5 kg)
Client: GE	ATION-3 ORGE KOCHUPARAMBIL OBAL ENVIRONMENT AND MINING SERVICES	DGMS India (A) 254 Permissible Ground Vibration 200
PSPL 6 ZC Freq 6	inear Weighting 52.81 pa.(L) at 0.566 sec 50 Hz Passed (Freq = 19.7 Hz Amp = 1100 mv)	
PPV ZC Freq Time (Rel. to Tri Peak Acceleration Peak Displacem Sensor Check Frequency Overswing Ra	on 0.201 0.214 0.308 g ent 0.010 0.004 0.004 mm Passed Passed Passed 7.3 7.3 7.3 Hz	
Peak Vector Sur	m 2.270 mm/s at 0.050 sec	2
		1 2 5 10 20 50 100 > Frequency (Hz) Tran: + Vert: x Long: ∅
		a)Industrial Buildings b)Domestic houses/structures c)Historic objects, sensitive structures
MicL		
Long		0.0
Vert	dendu handlingenen .	0.0
Tran		0.0
	ò 1.0 2.0	3.0 4.0 5.0

Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 20.00 pa.(L)/div Trigger =

Sensor Check



Date/Time MicL at 13:23:16 March 27, 2023 Serial Number UM18455 V 10-90FB Micromate ISEE Geo: 0.127 mm/s, Mic: 100.00 dB(L) **Battery Level** 3.8 Volts **Trigger Source** Range Geo: 254.0 mm/s Unit Calibration November 18, 2021 by UES New Delhi **Record Time** 5.0 sec at 2048 sps File Name TEMP.EVT Operator/Setup: Operator/factory.MMB Scaled Distance 104.0 (73.5 m, 0.5 kg)

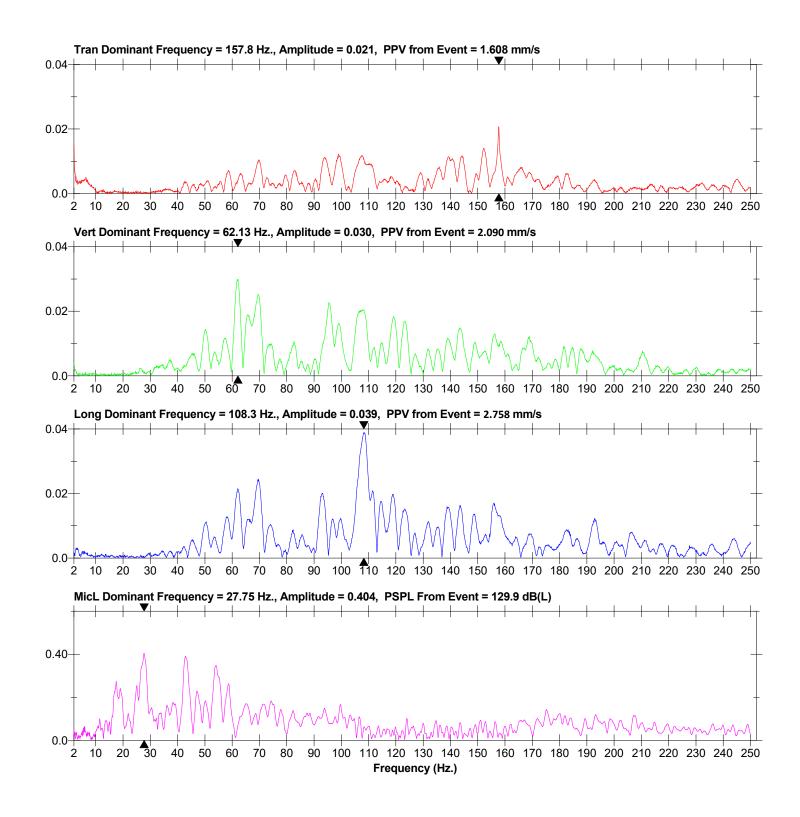
Notes

 Location:
 STATION-3

 Client:
 GEORGE KOCHUPARAMBIL

 User Name:
 GLOBAL ENVIRONMENT AND MINING SERVICES

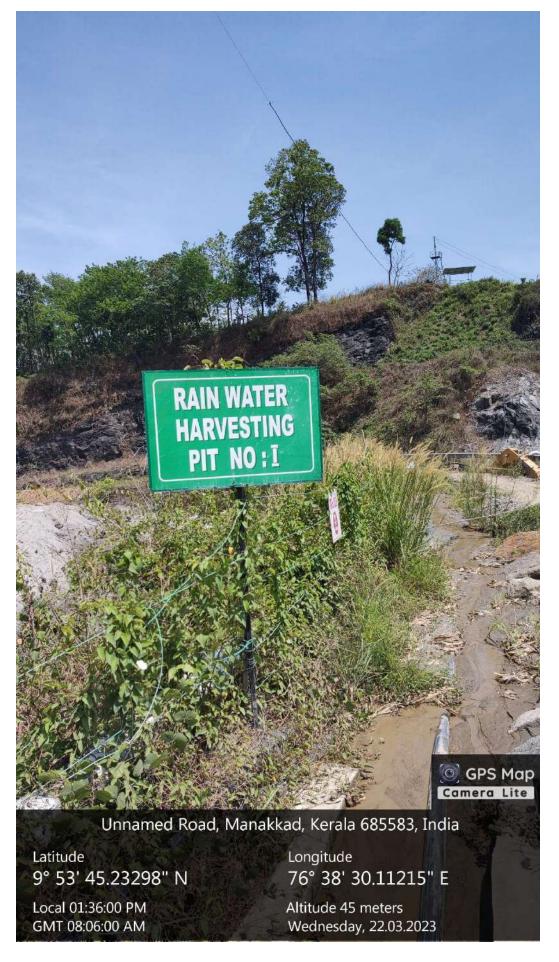
 General:
 Client:

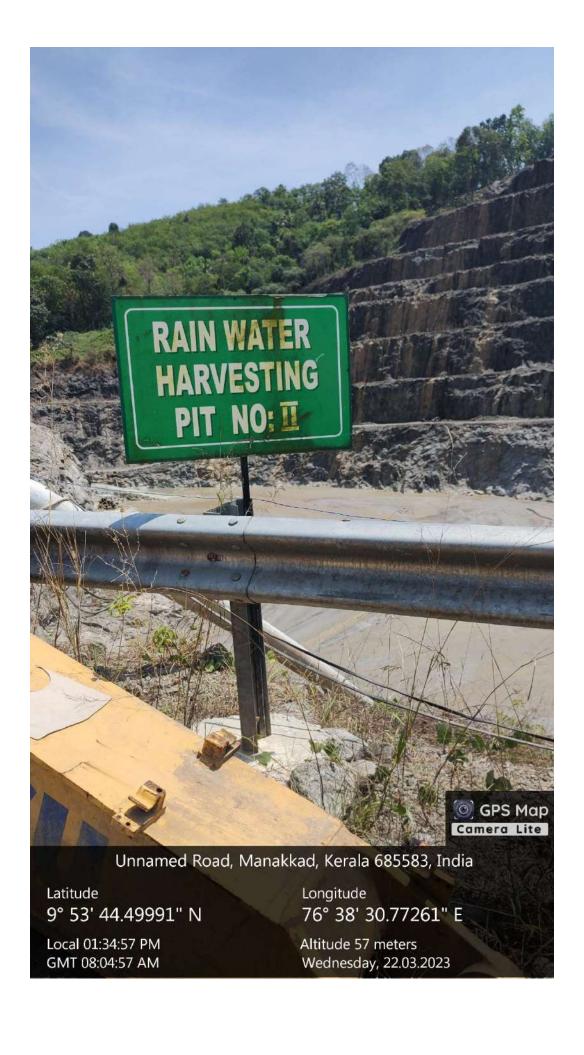


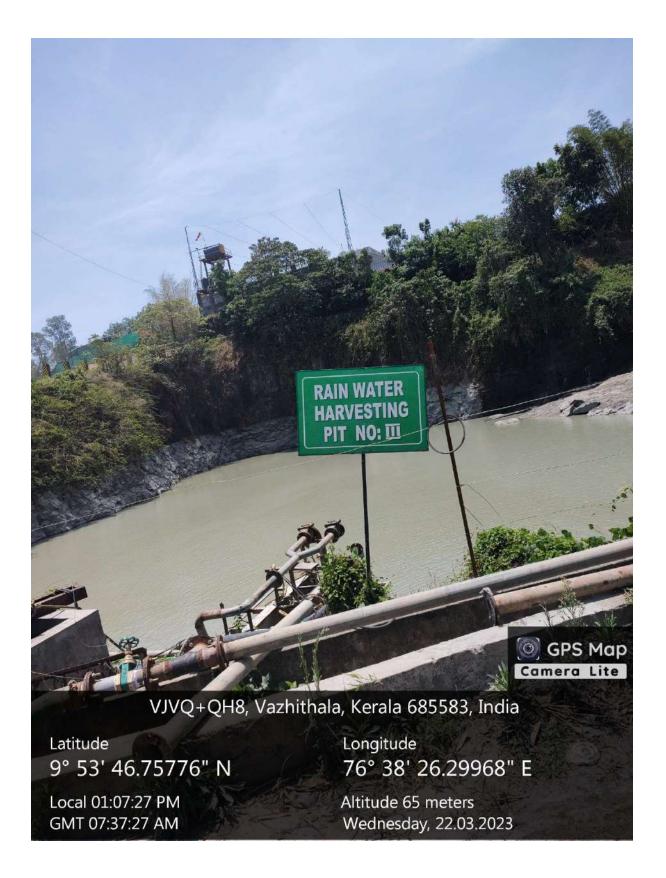


Blasting Mats









Sl No.	Name	Post
1	Shri. Sonu Jose	Head of Monitoring Cell
2	Mr. Baby P Poulose	In charge
3	Mr. Joseph K Y	Member
4	Mr. Prasanth P P	Member
5	Mr. Jomy Joy	Member
6	Mr. John Peter	Member

59 got meeting of the Environment Monitoring Committe held on 27.10. 2022 at 2.15 PM. Minutes of the 1976 meeting was Sevenied. Quarry operations restanted on 21-07-2022 after the restrictions due to racin were lifted by the district authorities As informed the sub- committee of 2 officials of SEAA, inspected our y operations on 30-07- 22. The anarol Imembers expressed their satisfaction on our gnarny shape and operation. New Points. 200 plants were planted in the newly purchased area, adjoining our lease. This is like a compensatory flantation 3 grown up coconint trees in the minuing area was replanted near the check dame. Watering is done regularly Rear cameras are fitted in the dumpers so that drivers can see the premises at back of dumper. Equipments are fitted with Fine Extinguishers All all equipments are to be maintained considering the upcoming Summer .. A new road is under construction to the topmost point of lease (westend) Maximum Care is taken to reprost minimum trees.

Minutes of Meetings of EMC

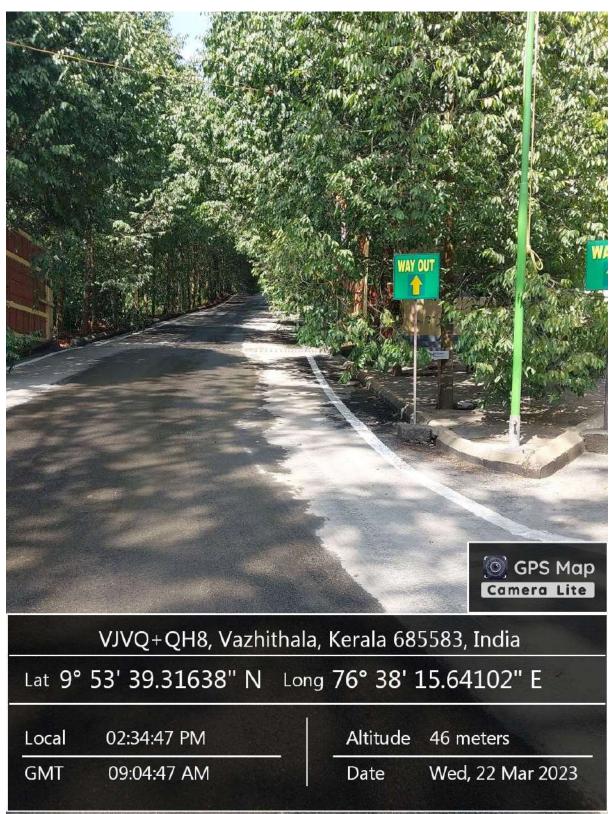
61 scheme a new house Under Cor is being constructed within this pachagat for a neady person Another penson's house is being Genarated. During the recent " Onain Festival 1500 nos of food grain packets worth Ro 1500/= each packet were distributed to each and eveny house around the quarry Committee expressed their The gratifule to the management. Mist water sprinkling arrangements are under construction near affice and chushes this will be soon. The old one became operation insperational. At present dust come control is done by water spokling in tanks Members: Mr. Baley, P. Ponlose Mr. Joseph KY Mr. Prasanth P.P. Mr. Jomy Soy Mr. John Peter. Somu Jose) Head of Envisonment Monitoring Cell.

Minutes of Meeting of EMC

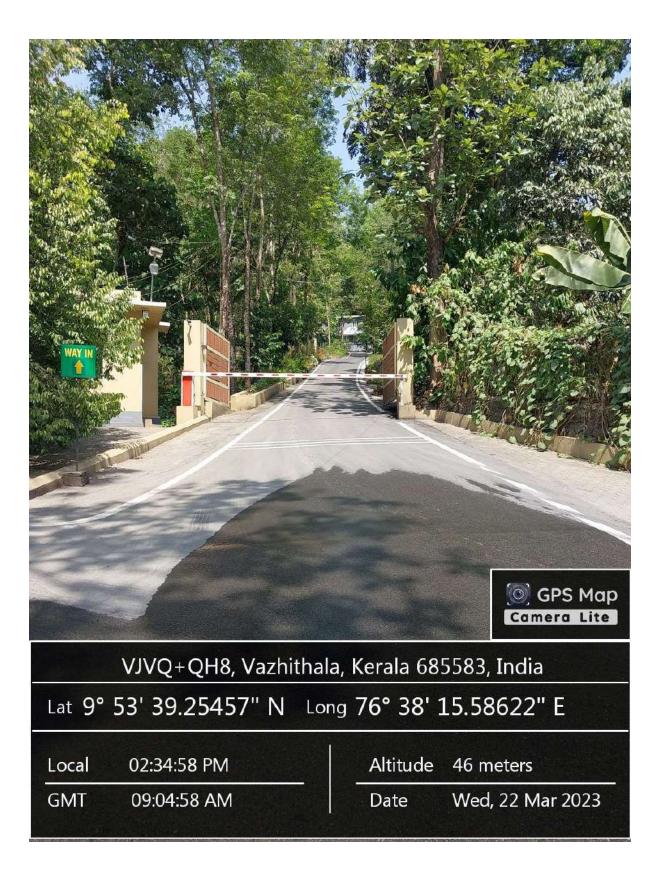
21 meeting of the Environment Monitoring committee beld ori 29 December 2022 at 3 pm. Minutes of the 20th meeting was reviewed. New road to top of lease is completed. Development of the top 1st bench started. Main Agenda of today's meeting is to discuss arrangements for the 'Are an inspection of the committee appointed by NG? 10 Study pollutions in gnarries. The inspection its scheduld. between 1st to Lits January as below. by KSPCB and CPMFR fearns. 02-01-2023 - Ambient readings of Noise, dust, Vibration. (without any operation). 03-01-2023 - Above tests with full operation from GAM to 6PM separate teams were formed with different Jask's as bot below 1. Transport arrangements. 2. Equipment shipping to monitoring points & power supply. anarry operation arrangemate 3. 4. Hospitality, Drinking water supply food arrangements, Food, for M.D also attended of the meeting. The lease Members ' 1. Baluy, P. Ponlose Manijen A. Joney Joy (2. Joseph Ky Stranger A. John Peter t No. John Peter Cay 2. Joseph KY 3. Prasanth P. P. D X Sonn Sose (Head of Environment Monitoring Commit

22nd Meeting of the Environments Monitoring Committee beldon 16:03.23 at 3 pm. Minutes of the aist meeting were reviewed. Head of Committee conveyed his. atmost appreciation on the works done by each employee with regard to the NGT appointed commette's inspection of prom 1st to Ath Burnary 2023. New Points: 1. A new water is provehaved, This will be in operation by next week and after legistration de. This will be utilized for dust suppression in addition to the present tank. 2: 4th bench at top of lease is being started today. 3. Grass planted at side of benches are goowing well watering is done darly. Also the trees planted at back of canteen - office building is also growing beny well. H. The road new crush plant to the main road is farned. 5, Two solar lights well be added to this road 500. 6. Road safely missons are public roads. 7. A new water cooler is booked anarny & plant workers. 8. Under CSR Scheme many house neparos / renovations are An progress. - contd -

9. A 'Chapath' is under construction in the road from crusher plant to the public road. Once completed this chappath will be filled with water. Truck types will be washed automatical leaving all dust / sand inside water The chappath will be cleaned negulary to nensues all sand etc. Members 1. Baly. P. Poulose 2. Joseph KY 3. Prasanth P.P. 4. Jonay Joy 5. John Peter Sonin Jose Head of Environment Monitory Com

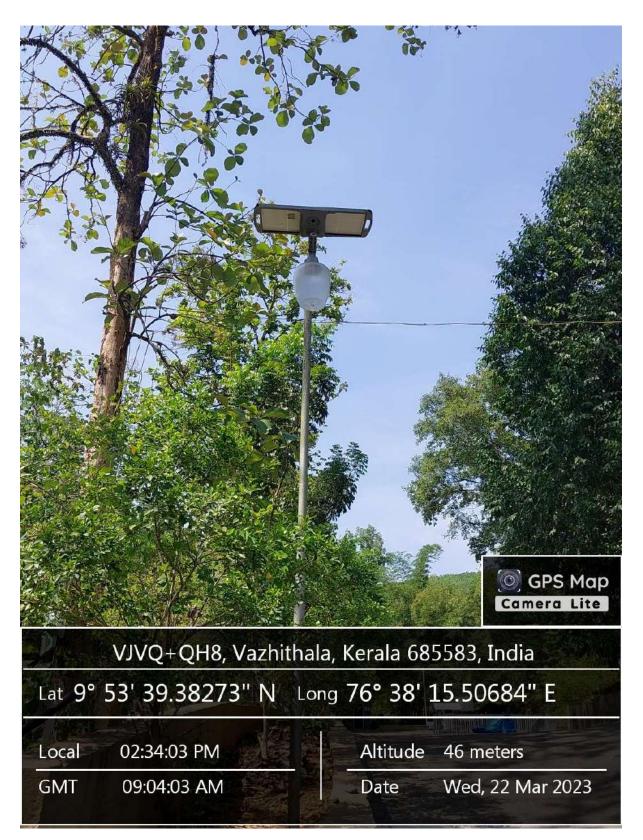


ACCESS ROAD

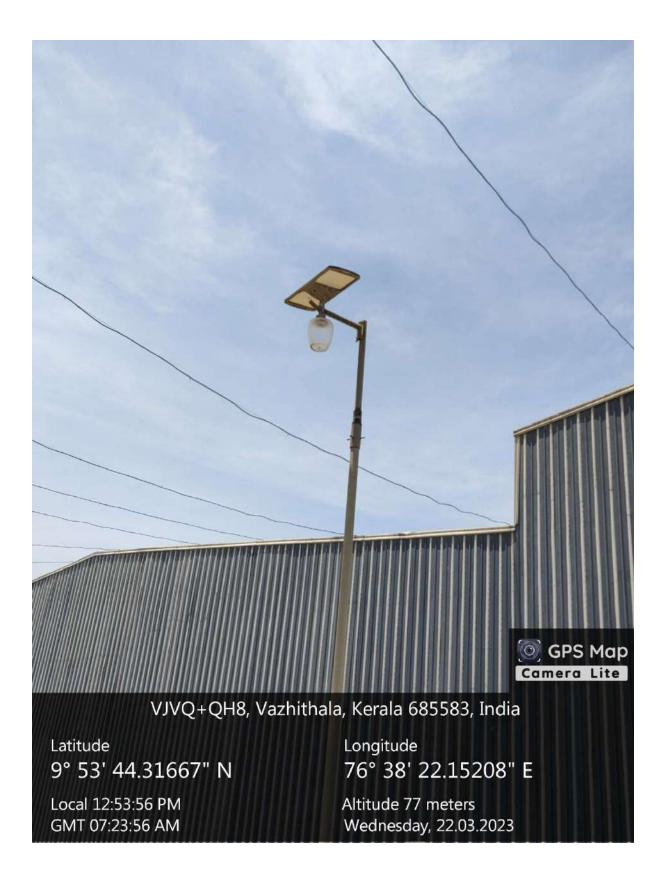


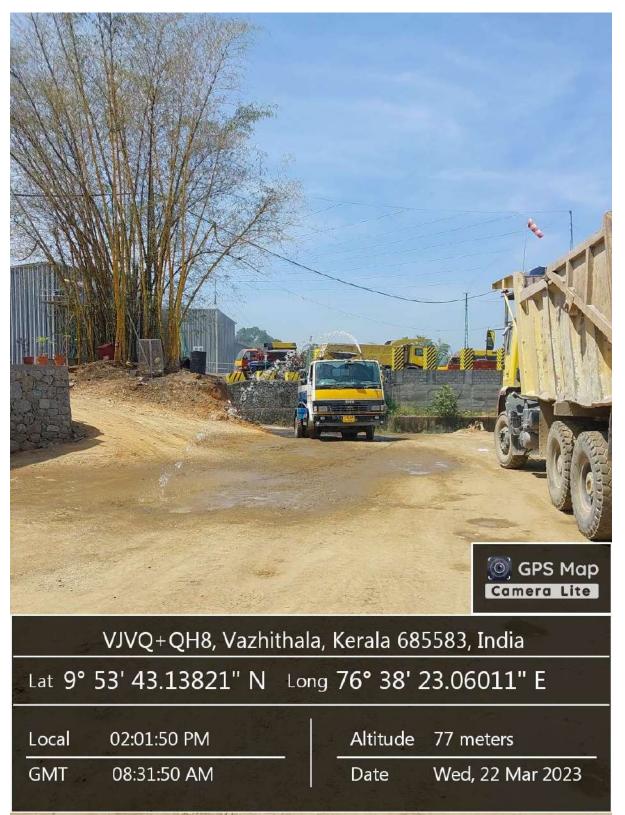






SOLAR LIGHTS

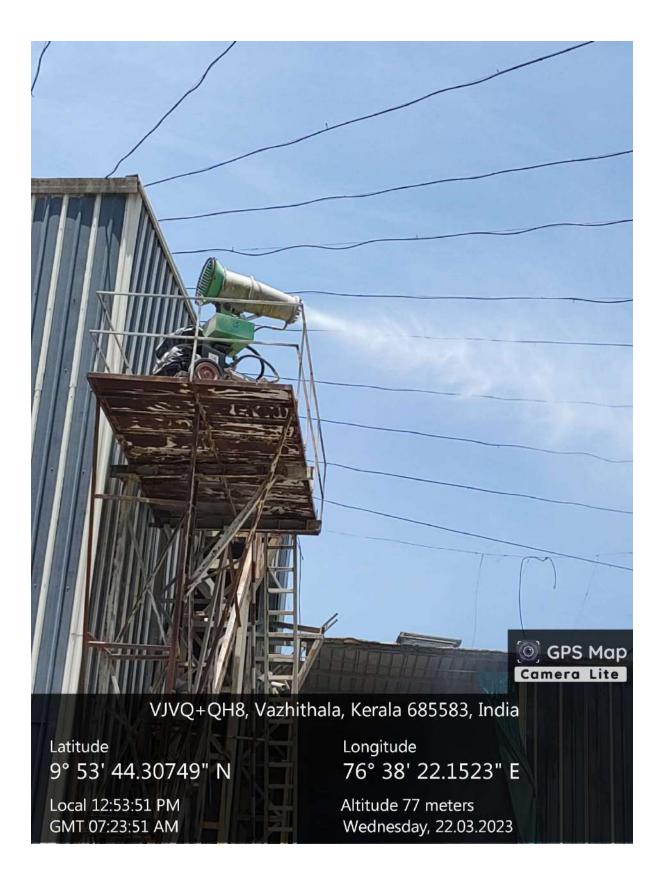




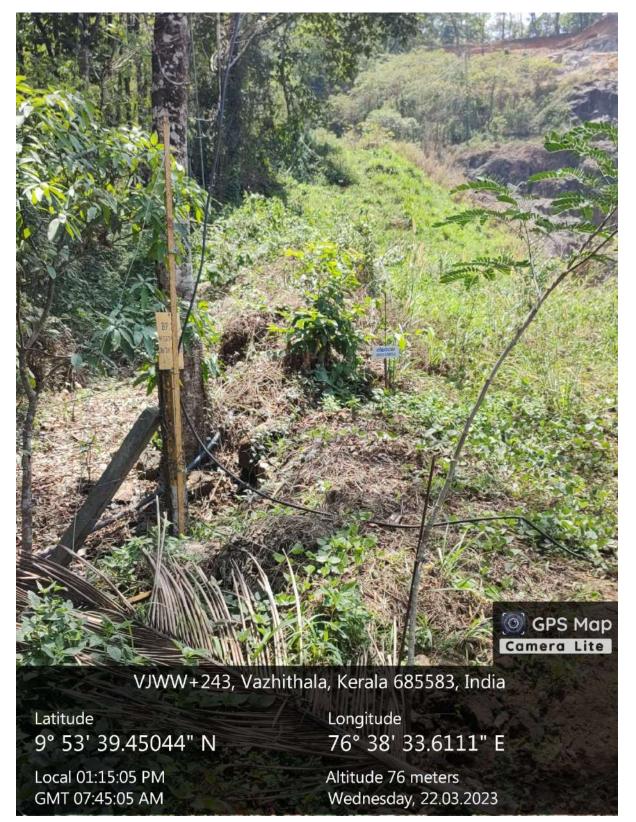
WATER TANKER WITH SPRINKLER



Local 12:54:24 PM GMT 07:24:24 AM Altitude 77 meters Wednesday, 22.03.2023



MIST SPRAYERS



AVENUE PLANTATION

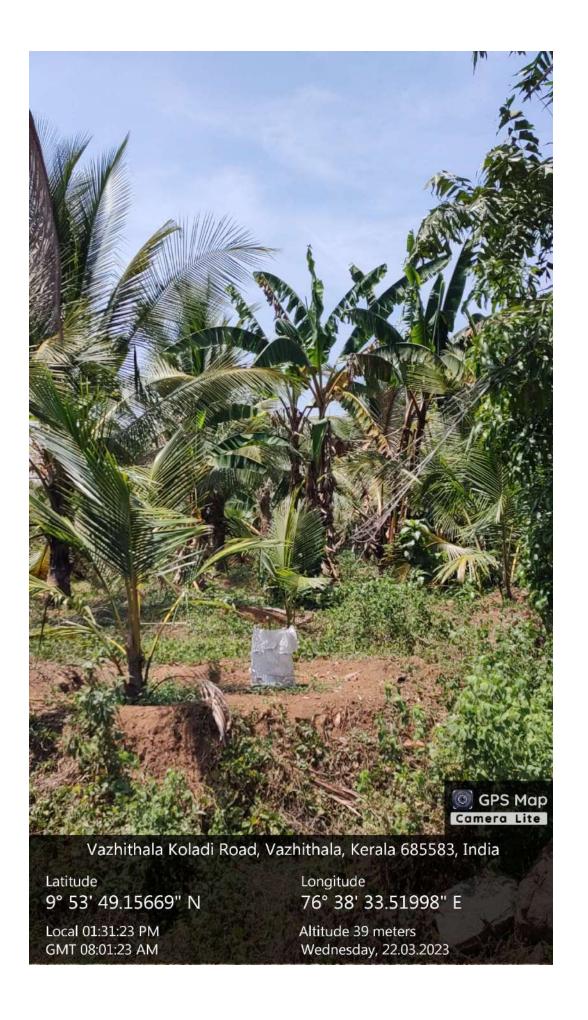


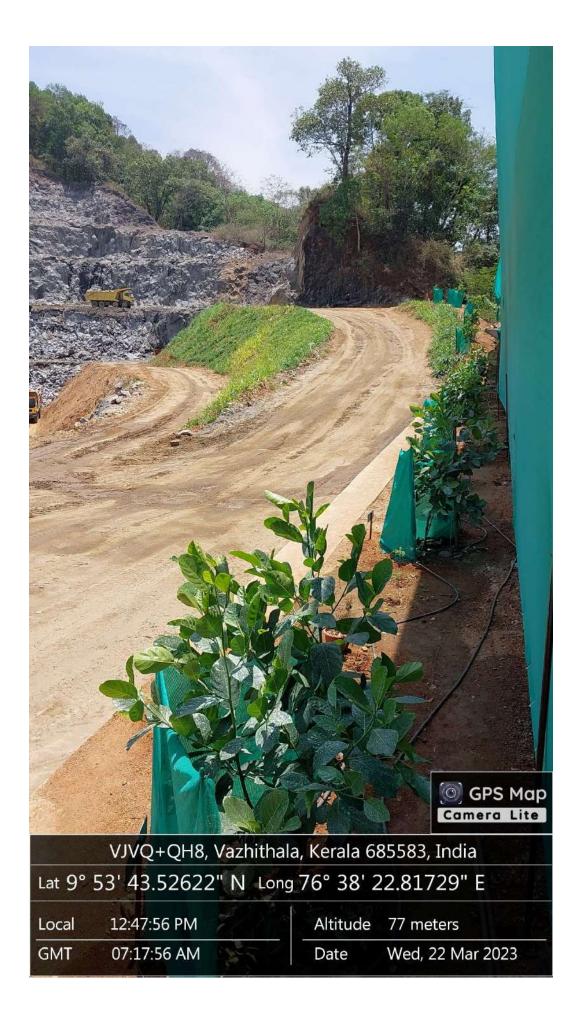
9° 53' 49.25155" N Local 01:30:06 PM

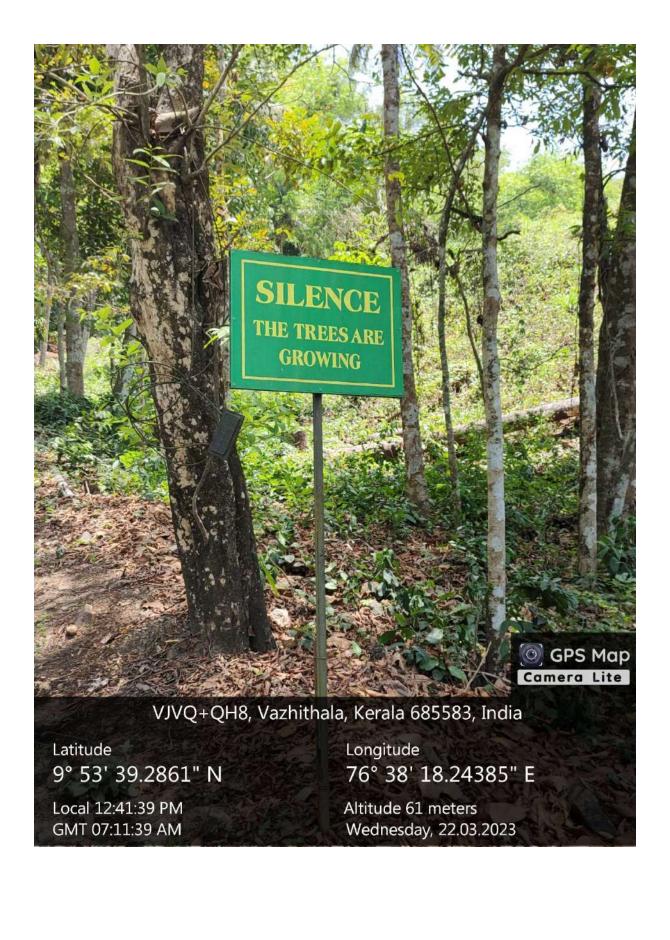
GMT 08:00:06 AM

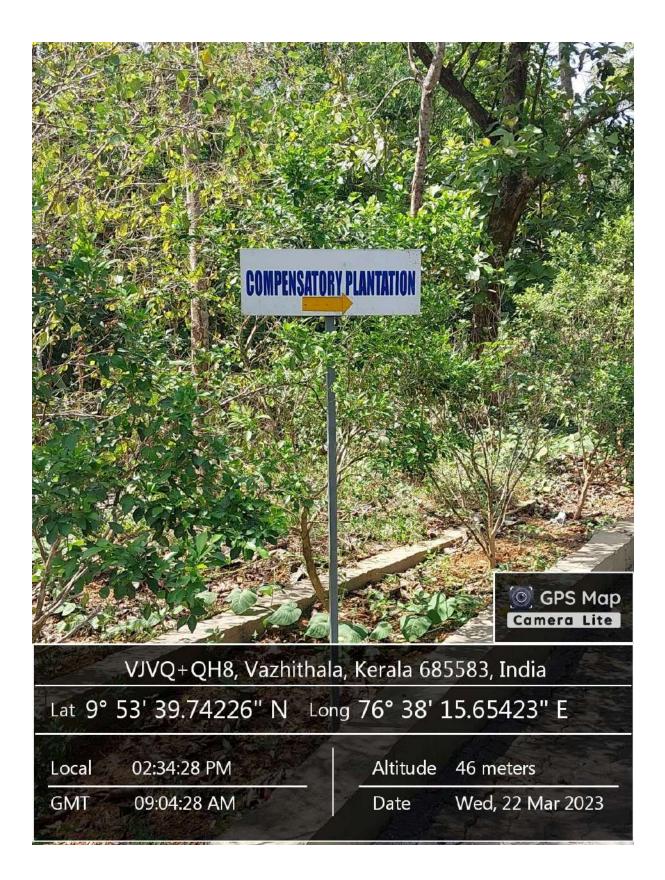
76° 38' 34.85389" E

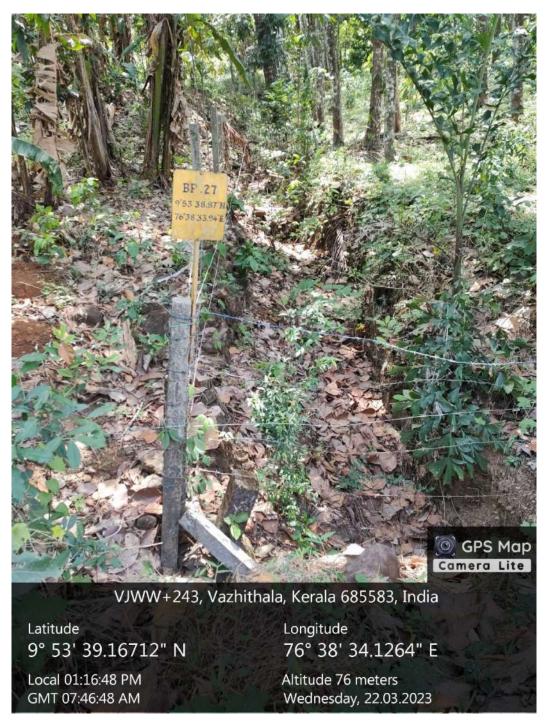
Altitude 39 meters Wednesday, 22.03.2023



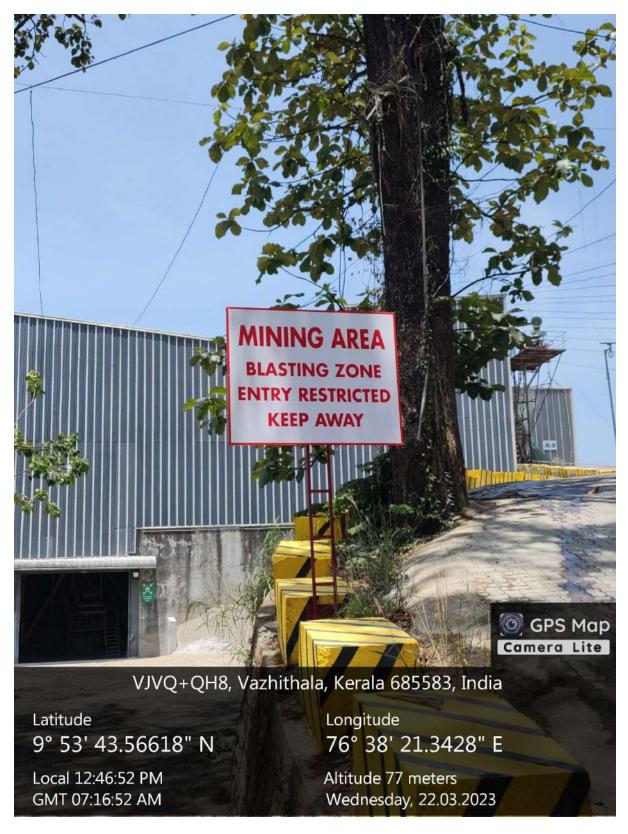


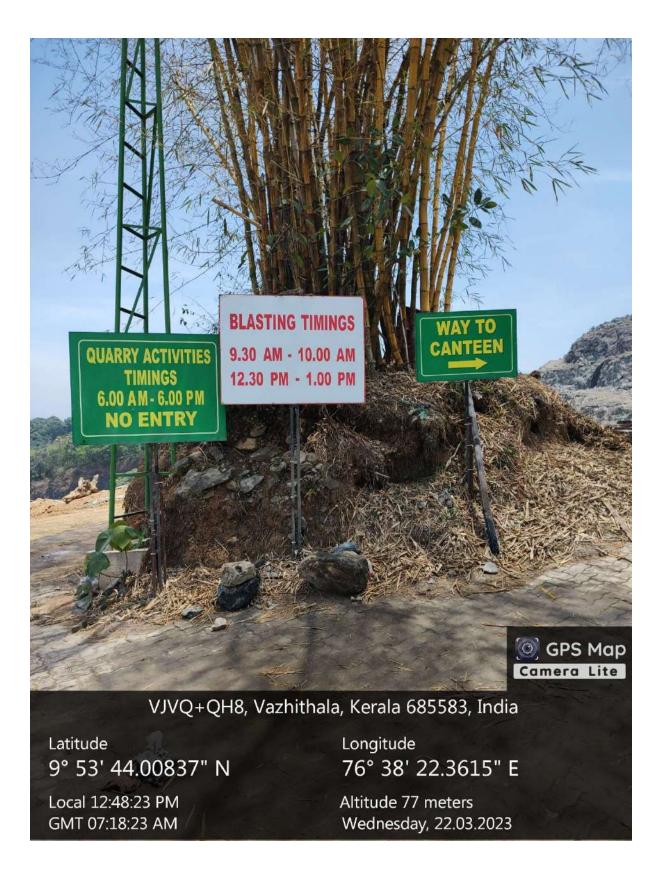




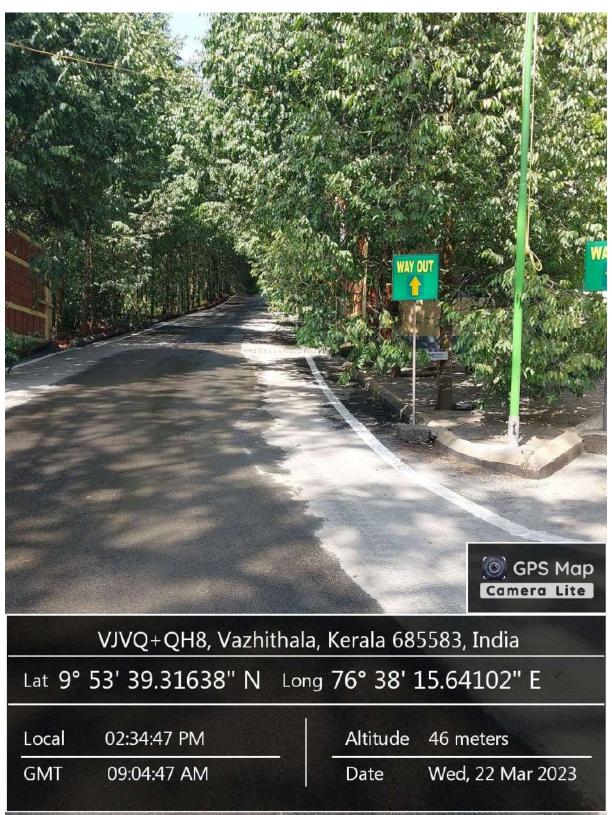


Boundary Fencing





SIGN BOARD



ACCESS ROAD

O GPS Map Camera Lite

VJVQ+QH8, Vazhithala, Kerala 685583, India

Latitude 9° 53' 40.63661" N Longitude 76° 38' 20.57201" E

Local 12:44:25 PM GMT 07:14:25 AM

Altitude 61 meters Wednesday, 22.03.2023

No. To	PH. OFF: 9847428399, MOB: 9 (1003) MOB: 9398002077 MOB: 9398002077 CIDIted Cranites 9447536733	Month		
No.	Particulars	City.	Rate	Amount
1	MERSOS	1	2200	2066
2	a observing	1	2500	dsoc
3				
4				470
5	්ලා		-	200
6				1
7	A		1	4500
8				
9				
10				
11		-		
12				
-			TOTAL	

ESTIMATE		.Brought of	
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No. 8589008864	Date	2-12-20	
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	Addresser	VAZHITHALA				Inv. Date:		
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	Phone:		Mobile:			Sup.Place:	1	
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NAGARJUNA HERBAL CONCENTRATES LTD

THODUPUZHA, IDUKKI - 685 588 AGR. NURSERY, AVOLY, VAZHAKULAM

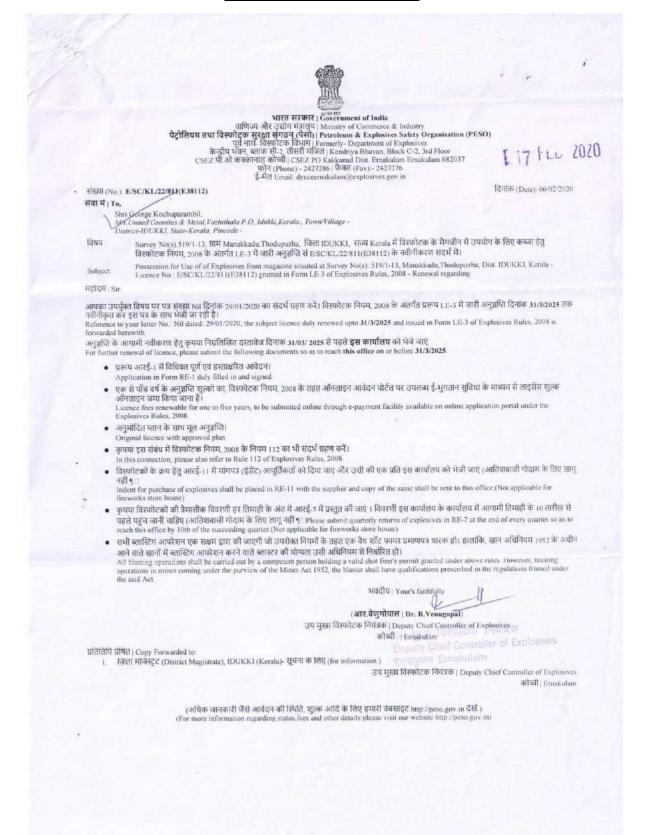
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JRYA BIG PLANT		0	3 Nos	800.00		2400.0
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THODUPUZHA, IDUKKI - 685 588 AGR. NURSERY, AVOLY, VAZHAKULAM Ph:04852 261903, Mob:9961000981, EMail: GSTIN: 32AAACN8383Q1ZV PAN : AAACN8383Q TAX INVOICE(B2C) - CASH Original/Duplicate/Triplicate
Name: UNITED GRANAITE & METALS VAZHITHAL Inv. No: 8/22-23/3419
ddress: Inv. Date: 28-Feb-23 Address Veh, No Phone: Mobile Sup.Place KERALA GSTIN/UID: State Code: 32 SL GST Description of Goods / Service Rate HSN/SAC Qty/Upm Net Value Disc% No 96 PLAAVU VIETNAM SUPER EARLY BIG 2 PLAAVU SEEDLESS BIG COVER 3 PLAAVU DANGSURYA BIG PLANT 4 KUTTIKURUMULAYU DANG 800.0 1 Nos 800.00 0 0 1 Nos 800.00 800.00 0 1 Nos 800.00 800.00 KUTTIKURUMULAKU - POT 0601 0 2 Nos 250.00 500.00 Sub Total: 900.00 Less Discount: 0.00 Net Value: 2900.00 CGST 0.00 SGST 0.00 Round Off: 0.0 Total: 2900.00 Rupees Two Thousand Nine Hundred Only E&OE For NAGARJUNA HERBAL CONCENTRATES LTD Bank Details : Authorized Signatory Certified that the particulars given above are true and correct.

Nursery Receipts

EXPLOSIVE LICENSE



अनुज्ञाप्ते प्ररुप एल. ई3 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 अनुज्ञाप्ते Licence to possess : (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine
अनुज्ञाप्ति सं. (Licence No.) : E/SC/KL/22/811(E38112) वार्षिक फीस रुपए (Annual Fee Rs): 2400/-
1. Licence is hereby granted to Shri George Kochuparambil (अधिभागो / Occupier : Shri George Kochuparambil). M/s.United Granites & Metal, Vazhithala P.O, Idukki, Kerala., Town/Village - , District-IDUKKI, State-Kerala. Pincode -
को अनुज्ञपित अनुदत्त की जाती है।
2. अनुज्ञप्तिधारी की प्रास्थिति Status of licensee : Individual
 अनुज्ञाप्ति निम्नलिखित प्रयोजनों के लिए विधिमान्य है। possess for use of Nitrate Mixture, Safety Fuse, Licence is valid only for the following purpose. Detonators, Electric Detonators, - के उपयोग के लिए
Licence is valid only for the following purpose. Detonators, Electric Detonators, - के उपयोग के लिए 4- अनुज्ञप्ति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।
Licence is valid for the following kinds and quantity of explosives: (Φ) (a)
क्र नाम और विवरण वर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में
Sr. No. Name and Description Class & Division Sub-division Quantity at any one time
1. Nitrate Mixture 2,0 0 100 Kg.
2. Safety Fuse 6,1 0 1500 Mtrs 3. Detonators 6,3 0 5000 Nos.
4. Electric Detonators 6,3 0 1000 Nos.
 (ख) किसी एक कलैंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञप्ति के लिए] (b) Quantity of explosives to be purchased in a calendar month[applicable for licence under as above.
5. निम्नलिखित रेखाचित्र) से अनुज्ञप्त परिसर की पुष्टि होती है। The licensed premises shall conform to the following The licensed premises shall conform to the following
drawing(s): .
6. अनुज्ञाप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No(s). 519/1-13, ग्राम (Town/Village) : Manakkadu,Thoduge आना (Police Station) : Thodupuzha
ার্জলা (District) IDUKKI रাज्य (State) Kerala াবনকাত (Pincode) বুংশাথ (Phone) ই. मेल (E-Mail) টাব্ধ (Fax)
7. अनुज्ञप्ति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। The licensed premises consist of following : NA facilities.
8. अनुज्ञप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों 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.
 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. अनुज्ञप्ति प्राधिकारी व्दाररा हस्ता.क्षरित इस अनुज्ञप्ति की शर्ते और अतिरिक्ति शर्तें। Conditions and Additional Conditions of this licence signed by the licensing authority. दूरी प्ररूप DE-2 Distance Form DE-2.
9. यह अनुज्ञप्ति तारीख 31 मार्च 2006 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2006.
· यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची v के भाग 4 के प्रति निर्दिष्ट सेट-vII के अधीन तथा

उपवर्णित इस अनुज्ञाप्ति की शातें का अधिक्रमण करने या यदि अनुज्ञप्त 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 - 05/05/2004		50/- संयुक्त मुख्य विस्फोटक नियंत्रक Joint Chief Controller of Explosives South Circle, Chennai
Amendments : • Amendment of Quant • Amendment of Quant	ity of Explosives/Monthly नवीनीकरण	y Purchase Limit dated : 27/12/2011 y Purchase Limit dated : 04/03/2014 1 के पृष्ठांकन के लिए स्थान Endorsement of Renewal
नवीकरण की तारीख	समाप्ति की तारीख	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प
Date of Renewal	Date of Expiry	Signature of licensing authority and stamp
06/02/2020	31/03/2025	Dy. Chief Controller of Explosives, Emakulam

कानूनी चेतावनी : विस्फोटकों को गलत ढंग से चलाने या उनका दुरूपयोग विधि के अधीन गंभीर दांडिक अपराध होगा।

Statutory Warning : Mishandling and misuse of explosives shall constitute serious criminal offence under the law.

(सेट VIII | Set VIII)

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को विक्री या प्रयोग हेतु रखने के लिए प्ररूप रल.ई. 3 (अनुच्छेद 3 (ख) से (ग)) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक व्युरा प्रदान किए जाने वाले अनुज्ञप्ति सं. E/SC/KL/22/811(E38112) की श्वर्त निम्नलिखित हैं ।

The following are the conditions of licence number E/SC/KL/22/811(E38112) to possess for sale or use, explosives of Class 1,2,3, 4, 5, 6 and 7 in a magazine in Form LE-3 (articles 3(b) to (c)) granted by Chief controller of Explosives or Controller of Explosives.

परिसर में किसी भी समय विस्फोटकों की मात्रा अनुज्ञापन योग्य सामर्थ्य से अधिक नहीं होगी । 1.

- The quantity of explosives on the premises at any one time shall not exceed the licensable capacity. विस्फोट्कों के भंडारण के लिए प्रयुक्तर होने वाली मैगजीन अनुसूची III और अनुज्ञप्ति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए 2 रखना होगा।
- The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- भागजीत का प्रयोग उन सभी विस्फोटकों के जो इस अनुराति में विनिर्दिष्ट है, स आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं । रखे जाने के लिए और ऐसे रखे जाने से संबध्द
- The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or mplements for work connected with the keeping of such explosives.
- पैकर्जों को खोलने का कार्य और विस्फोटकों को तौलने तथा पैक करने का कार्य मैगजीन में नहीं किया जाएगा ।
- The opening of packages and the weighing and packing of explosives shall not be carried on in the magazine. दो या दो से अधिक वर्णन के विस्फोटकों को, जिन्हें मैगजीन में रखे जाने की अनुज्ञा दी जा सकती है, मैगजीन में तभी रखे जाएंगे
- जब उनमें से प्रत्येक को, ऐसे पदार्थ या स्वरूप का कोई मध्यवर्ती विभाजक लगाकर या उनके बीच ऐसा मध्यवर्ती स्थान छोड़कर, पुरस्पेर पृथक कर दिया जाए कि किसी वजह से विस्फोटक में लगने वाली आग या होने वाला विस्फोट किसी अन्य वर्णन के विस्फोटक तक न पहुंच सके : परंतु -

विस्फोटक तक न पहुंच सक : परतु – (घ) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पतीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पतीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवती विभाजक या स्थायन के रखे जा सकते हैं । (उ) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे । (च) वर्ग 1 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे । (च) वर्ग 1 के अंतर्गत आनेवाले बारूद को अलग रखा जाएगा । Two or more description or explosives which may be permitted to be kept in the magazine shall be kept only if they are separated from each other by an intervening partition of such substance or character, or by such intervening space. swill effectually provent explosion of time the one communication with the other. Provide that

as will effectually prevent explosion or fire in the one communicating with the other, Provided that-

(d) the various explosives of Class 2 (nitrate-mixture), Class 3 (nitro-compound), safety fuses belonging to Class 6 Division 1 and detonating fuses belonging to Class 6 Division 2 as do not contain any exposed iron or steel, may be kept with each other without any intervening partition or space ;

- (c) Detonators belonging to Class 6 Division 3 shall be kept separately. (f) Gun powder belonging to Class 1 shall be kept separately. वर्ग 3 (नाइट्रो योगिक) के विरफोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी 6 की विशेष मेंजूरी के मैंगजीन में नहीं रखा जाएगा ।
 - Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date
- explosives of class 5 (mass 6 with the special sanction of licensing authority. art 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पक्षात मैगजीन में तभी रखा जाएगा जब कि किसी विस्फोटक नियंत्रक ने इसके लिए विशेष मंजूरी दे दी हो । (i) जब ऐसी मंजूरी दे दी गई हो तो प्रत्येक निरीक्षण पर किसी विस्फोटक नियंत्रक से ऐसा लिखित प्रमाणपत्र अभिप्राप्त कर लिया

जाए जिसमें दी गई मंजुरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुइष्तिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुरत करेगा ।

(ii) जब कोई विस्फोटक मानक शुध्दता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लीअसरीन या द्रव नाइट्रो योगिक के निकल जाने के चिन्ह प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुझूप्तिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करें।

Explosives of Class 3 (nitro compound) shall not be kept in the magazine after the expiration of one year from the date

of their manufacture except with the special sanction of the Controller of Explosives. (i) When such sanction has been given, a written certificate showing the period covered by the sanction shall be obtained from the Controller of Explosives at each inspection, and shall be kept by the licensee and produced on demand.

(ii) When an explosive owing to its being no longer of standard purity or owing to signs of liquefaction or of exuded nitro-glycerin or liquid nitro-glycerin or liquid nitrocompound is no longer fit for storage in the magazine or store house the licensee shall comply, at his own expense, with such directions as to its disposal as the Chief Controller or Controller of Explosives may issue

मैगजीन के भीतरी भाग या उसमें लगी बैंचो, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतरित या अवतरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके । भीतरी भाग में लगी बेंचे, शैल्फें और फिटिंग यथासाध्य ग्रिट से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्पक सावधानी बरती जाएगी कि वहां कोई जल मौजद न रहे : परंत किसी लोहे या इस्पात के खले होने के विरूप्तर सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाध्येकर नहीं होगा जिसमें वर्ग 6 (गीला बारूद) के प्रथम के विरफोटक से भिन्न कोई विस्फोटक रखा गया है ।

Deputy Chief Controller of Explosives

The interior of the magazine and the benches, shelves and fittings therein shall be so constructed or so lined or covered as to prevent the exposure of any iron or steel contact with the explosives. Such interior, benches, shelves and fittings shall so far as is reasonably practicable, be kept free from grit and shall otherwise be clean; and in the case of any explosives liable to be dangerously affected by water, due precautions shall be taken to exclude water there from: Provided that so much of this condition as relates to precautions against the exposure of any iron or steel shall not be obligatory in a building in which no explosive other than explosive of the 1st Division 6th (Ammunition) Class is

भाग-यदि तंडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञाप्तिधारी ऐसे परीक्षण के लिए विहित फीस का संदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञप्तिधारी व्दारा पक्षात्वर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता

9

13.

परंत किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्य

परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मैगजीन से संबध्द हैं तो ऐसे सभी चालकों के परीक्षण के लिए फीस ऐसी किसी फीस से अधिक नहीं होगी जो किसी एक तडित चालक के परीक्षण के लिए हर स्थिति में विहित की गई है ।

If the lighting conductor is tested by the Controller of Explosives, the licensee shall pay the fees prescribed for test. In the even of the test proving unsatisfactory, the same fees shall be payable by the licensee for each subsequent test until the lighting conductor is passed by the testing officer as satisfactory

Provided that the fees payable for a single test shall be charged for all tests made on a conductor during any one day :

Provided further that where two or more lighting conductors are attached to one and the same magazine, the fee for the testing of all such conductors shall not exceed the fee prescribed in this condition for testing a single lighting conductor

उपयुक्त तथा जेब रहित कार्यकरण वस्त्रों , उपयुक्त जुतों के प्रयोग व्दारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों 10 व्दारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुोएं या पदार्थ, जिससे विस्फोट हो सकता है या आग लग सकती हो, किन्तु इस शर्त के कारण ऐसी संरचना, स्थिति या स्वरूप में किसी कृत्रिम बत्ती का प्रवेश वर्जित नहीं है जिससे आग लगने या विस्फोट होने का खतरा न हो : परंतु इस शर्त का वह भाग, जो लोहे या इस्पात के अपवर्जन को लागू होता है, ऐसे किसी भवन के संबंध में बाध्य कर नहीं होगा जिससे भिन्न कोई विस्फोटक नहीं रखा गया है ।

Due provisions shall be made, by the use of suitable working clothes without pockets, suitable shoes and by searching or otherwise or by such means, for preventing the introduction into danger area of the factory premises of fie, Lucifer matches or any substance or article likely to cause explosion or fire, but this condition shall not prevent the introduction of an artificial light of such construction, position or character as not to cause any danger of fire or explosion

Provided that so much of this condition as applies to the exclusion of iron or steel, shall not be obligatory in a building in which no explosive other than an explosive of the 1st Division of the 6th (Ammunition) Class is kept. अनुज्जपिधारी प्ररूप आर.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति हो, में सभी विस्फोंटकों का अभिलेख और लेखा रखेगा

11. और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके व्यारा ऐसा करने की मांग की जाने पर स्टाक पुस्तक और अभिलेख प्रस्तुत करेगा । स्टाक पुस्तक विहित प्रोफार्मा में पृष्ठ संख्यांकित होगी ।

The licensee shall keep records and accounts of all explosives in Forms RE-3 and RE-4 or RE-5, as the case may be, and exhibit the stock books and records to any of the officers authorised under the Explosives Rules, 2008 whenever such officer may call upon him to do so. The stock books in the prescribed proforma shall be page numbered.

परिसरों में कोई परिवर्तन या तबदीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञप्तिधारी ऐसी किसी 12 शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करें ।

No changes or alterations shall be carried out to the premises without prior approval of the licensing authority and the licensee shall comply with any condition that may be specified by the licensing authority in this behalf. मेंगजीन सभी समयों पर अच्छी मरम्मत की स्थिति में बनाई रखी जाएगी (या अच्छी हालत में बनाई रखी जाएगी ¶ायदि किसी

कारणवश किसी विस्फोटक के भण्डारण के लिए मैगजीन अनुपयुक्त हो जाती है तो अनुज़प्तिधारी इस बात की सूचना अनुज़ापन प्राधिकारी को तुरंत देगा ।

Magazine shall at all times be kept in state of good repair (or maintained in good condition). The licensee shall report to licensing authority forthwith, if the magazine becomes unfit for storage of any explosives for any reason whatsoever

मेंगजीन का अनुज्ञप्तिधारी इन नियमों के नियम 24 के उप-नियम 3 के अनुसार त्रैमासिक विवरणी प्रस्तुत करेगा ।

The licensee of the magazine shall submit quarterly return as per sub-rules (3) and (4) of rule 24 of these rules यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी । 14.

Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.

यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने 15. के लिए, तुरंत दी जाएगी ।

The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or viceable

विस्फोटकों के पैकेटों के चट्टे इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विशिष्टियों को पढ़ने के लिए उनके बीच से होकर आ जा सके।

The explosive packages shall be stocked in such a way so as to allow movement of at least one person to check the condition of all packages stored and to read the manufacture particulars of each package. तडित चालकों की भूमि के लिए प्रतिरोध यथासंभव न्यूनतम होगा और किसी भी दशा में 10 ओहा से अधिक नहीं होगा ।

The resistance of the lightning conductor to earth shall be as low as possible and in no case be more than 10 ohms 17. मैगजीन के चारों ओर 15 मीटर की दूरी के अंतर्गत कोई शुल्क घास या झांड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी 🏾

उप मुख्य विस्फोद्ध

A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials

- विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी । 18.
- eckage of explosive at the time of bringing inside the magazine shall be examined for its sound condition. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा । 19.
- Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
- विस्फोटकों के खाली पैकजों को शीघ्रतिशीघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा । 20.
- Empty packages of the explosives shall be removed at the earliest and destroyed. \ अनुइप्तिधारी और कर्मचारीयों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए । 21. The licensee and the employee shall be conversant with procedure to be taken during the emergency within the emises
- निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञत परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह 22 सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यकत: अनुपालन किया जा रहा है. अधिकारी को प्रत्येक सुविधा प्रदान की जाएगी ।

Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.

यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञप्तिधारक को अनुज्ञात परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई 23. मरम्मत या परिवर्धन या परिवर्तन करने या सिफारिशों को लागू करने को लिखित रूप में सूचित करता है जो परिसर के अंदर या बाहर या व्यक्तियों की सुरक्षा के लिए आवश्यक है. भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को देगा । अनुज्ञाप्तिधारक सिफारिशों को निष्पादित करेगा और तिनिर्दिष्ट अवधि के

If the licensing authority or a Controller of Explosives informs in writing, the holder of the licence to execute any If the iterasting authority of a Controller of Explosives informs in Writing, the holder of the ficence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority. अनुदारिधारी मैगाजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुझत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिधिश्वाणी या सुरक्षा प्रलीत खरीदेगा।

24.

The licensee shall purchase authorised explosives/ fireworks or safety fuse as mentioned in the list authorised explosives from a licensed factory or company for possession and sale from the magazine. 25

निम्न से अधिक ध्वनि स्तर उत्पादित करने वाले आतिशबाजियों पटाखों की बिक्री और रखने के लिए

(क) जो फटने की जगह से बार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे; (ख) श्रेखला (जुड़े, हुए पटाख) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग.10(एन) डी.बी. (सी) पी.के.प्रतिबंधित होंगे ;

(df) size another of the crackers generating noise level exceeding; a) 125 dB(AI) or 145 dB(C)pk at 4 meters distance from the point of bursting shall be prohibited; b) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by 5

log10 (N) dB, where N = number of crackers joined logether. आग या विस्फोट व्दारा दुईटना या नुक्सान पटाखों की कमी या चोरी, अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को रिपोर्ट की जाएगी । तरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और 26.

Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority.

अतिरिक्त शर्तें / Additional Conditions :

1. अनुज्ञप्तीधारी विदेशी मूल के आतिशवाजी को ना प्रदर्शित करेगा, ना रखेगा और ना ही उसकी बिक्री करेगा I The licensee shall not exhibit, possess and sell fireworks of foreign origin.

कृते संयुक्त मुख्य विस्फोटक नियंत्रक or Joint Chief Controller of Explosives दक्षिणीचल, चेन्ने | South Circle, Chennai For J

Form DE-2 (See rule 113 of the Explosives Rules, 2008) (Distance Form to be attached to the licence)

Safety distances required to be kept clear around magazine for high explosives or fire works or factory licence number E/SC/KL/22/811(E38112) in form LE-3 granted to Shri George Kochuparambil, M/s.United Granites & Metal, Vazhithala P.O, Idukki, Kerala., Kerala-.

	Type of Structure(s) S	alety dista	nces meters
	Inside Safety Distances(ISD)	М	UM
1	Room or Workshop used in Connection with the Magazine	11	17
2	Any other Explosives Magazine or store House or Factory of the Applicant		
3	Magazine Office		
	Middle Safety Distances(MSD)		
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
5	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		33
	Private Road which is PRINCIPAL means of access to a Temple, Mosque, C	hurch	
	Gurudwara or other places of worships, Hospital, College, School or Factory	in the state	
10	River Embankment or Sea Embankment or Public Well		
	Reservoir or Bounded tank/rope way		
	Windmillor or Solar panel for Power Generation		
1.4	winding of Solar parentor rower Generation		
	Outside Safety Distances(OSD)		
	Dwelling House		
	Govt. and Public Building		
15	Temple, Mosque, Church or Gurudwara or other Places of Worships		
16	Shops, Market place, Public recreation and Sports Ground, College, S		
	Hospital, Theater, Cinema or other Building where the public are accuston	ned to	
	assemble		
	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or	r other	
	inflammable or hazardous substances		45
19	Building or Works used for Storage and Manufacture of Explosives or of a	irticles	
	which contain Explosives		
	Aerodrome		
	Furnace, Kiln or Chimney		
	Quarry or mine pit head		
23	Power House or Electric Substation		
24	Wireless Station		
25	Warehouse or other Storage Building		
26	Any other Protected works		
	Overhead Electric lines		
27	Electric Power over head Transmission Lines above 440V		45
	Electric Power over head Transmission Lines upto 440V		15
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Da	te : 05/05/2004 For Joint Ch		ler of Explosiv
			h Circle, Chem
nd	ments :		
-	ndment of Quantity of Evalorizer/Monthly Durchase Limit dated - 27/12/2011	y Chief Co	ontroller of Ex
and	ndment of Quantity of Explosives Monthly Parchase Limit dated : 27/12/2011 ndment of Quantity of Explosives/Monthly Parchase Limit dated : 04/03/2014	or Ernak	
me	nument of Quantity of Explosives/Monthly Purchase Limit dated : 04/03/2014		



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

संख्या/ No:A/SC/KL/P3/14(A2264)

सेवा में 16,

दिनांक / Dated : 01/02/2022

GEORGE KOCHUPARAMBIL, Prop. M/s United Granites and Metal, SNo. 337/3, Block No. 11, Manakkadu Village, Thodupuzha Tk.,

Town/Village - Thodupuzha

Disti. IDUKKI, State. Kerala, Pincode-685588

विषय / Subject:

Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO) situated at Survey No.:357/3, Block No.11, Village/Town. Manakkadu, Distt. IDUKKI, State Kerala Licence No.: A/SC/KL/P3/14(A2264) granted in Form P-3 of Ammonium Nitrate Rules, 2012 - Renewal regarding

महोदय / Sir(s),

आपके पत्र संख्यां Na दिनांक 19/01/2022 के सन्दनर्भ में अमोनियम नाइट्रेट नियम 2012 के प्ररूप पी–3 में जारी विषयक अनुप्राप्तिस दिनांक 31/3/2027 तक विधिवत नवीनीकृत कर आपको प्रेषित की जा रही है। कृपया अनुज्ञादिय की पावती स्वीमकार करें। / Reference to your letter No.: Nil dated: 19/01/2022, the subject licence duly renewed upto 31/3/2027 and issued in Form P-3 of Ammonium Nitrate Rules, 2012 is forwarded herewith, Please acknowledge receipt of the licence.

अनुज्ञाप्ति के आगामी नवीनीकरण हेतु कृपया निम्नलिखित दस्तावेज इस प्रकार प्रेषित करें कि वह दिनांक 31/3/2027. को या उससे पूर्व this office में प्राप्तन हो जाएं / For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2027.

- विधिवत भरा हुआ एवं हस्तापक्षरित ग्ररूप आर 1 /Application in Form R-1 duly filled in and signed.
 एक से पाँच वर्ष के अनुइति शुल्कों का, अमोनियम नाइट्रेंट नियम, 2012 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जामा किया जाना है।
- Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Ammonium Nitrate Rules, 2012. • मूल अनुज्ञप्ति मय अनुमोदित आरेखण / Original licence with approved plan
- रूप अपुरुष प्रभाव अपुराव अपुराव अपुराव अपुराव के स्वार्थ के स्वार के स्वार्थ के स स्वार स्वार स्वार स्वार स्वार के स्वार के स्वार्थ के स्वार के स्वार स्वार के स्वार स्वार स्वार स्वार के स्वार क स्वार स्वार स्वार स्वार स्वार स्वार के स्वार स्वार के स्वार स्वार स्वार स्वार स्वार स्वार स्वार स्वार स्वार स्व
- अन्तलर्गत यथा परिभाषित) द्वारा विधिवत इस्ताक्षर किया गया हो (यदि जमा नहीं किया गया हो) / Six copies of colour passport size photographs duly signed by the occupier (as defined under Rule 2 (O) of Ammonium Nitrate Rules,2012) 'in front' by 'black color indelible ink'.(if not submitted).

संलग्नक / Enclosures :

Hadly Yours faithfully.

(पी.के.राणा) I(Dr. P. K. Rana) (पा.क. राजा) । Dr. F. R. Rahaives विस्फोटक नियंत्रक । Controller of Explosives For Dy. Chief Controller of Explosives कोच्यी कृते जम मुख्य विस्फोटक कोव्यी For Deputy Chief Controller of Deputy **CAPIOSIVES**

प्रतिलिपि प्रेषित / Copy Forwarded to:

1. District Magistrate, IDUKKI (Kerala) for information

कृते उप मुख्य विस्फोटक नियंत्रक । For Dy. Chief Controller of Explosives, कोच्ची । Ernakulam (स्टेटस, शुलक, एवं अन्य विवरणों के बारे में अधिक जानकारी हेतु कृपया संगठन का वेबसाइट http://peas.gov.in देखें /For more information regarding status, fees and other details, pl

http://pi Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

	pal, Joint Chief Controller of Explosive		जानि गडा २ २	1
3	(अ	अन् मोनियम नाइट्रेट नियम, 2012 को	इप्ति प्ररुप P-3 अनुसूची 1 की क्रम संख्या	-3 और नियम 35 देखें)
			NCE FORM P-3	conte second
			of Schedule I and rule im Nitrate Rules,2012	
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				ट्रिंट के उपयोग के लिए, रखने हेतु
Lie	ence to possess for use of	Ammonium Nitrate from	a store house attache	ed to explosives manufacturing
वाषिक अनुइ	ख्या Licence No. : A/SC/KI एती शुल्क Annual licence Fe	c Rs: 1000/-		मार्च करकार
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्यन्त्रज्ञी	ते एतद्वारा जारी की जाती है .	CEORCE VOCUURADA	MBII Deen Mis United	Granites and Metal (अधिष्ठाला : GEORGE
	ce is hereby granted to :	KOCHUPARAMBIL)		All and All
		S.No.357/3, Block No.11,M शहर । गांव - Thodupuzha	· · · · · · · · · · · · · · · · · · ·	puzha Tk.,
		जिला- IDUKKI , राज्य- Kera Phone - , Email- , फैक्स-	la , पिन कोड - 685588	ावालय,
		the promition of the		
	धारी का स्तर: Individual of licence holder: Individual			
2. अनुज्ञाप्	केवल निम्नलिखित प्रयोजन हेतु	वैध है : विस्फोटक विनिर्माण इ	काई (एएनएफओ) से जुड़े	ई गोदाम से, अमोनियम नाईट्रेट के उपयोग के लिए, रखने हेतु
अनुज्ञाप Licence		g purpose : Licence to possess	for use of Ammonium	Nitrate from a store house attached to explosives
manuf	cturing unit (ANFO) 1 अमोनियम नाइट्रेट की निम्नेलिनि			
	is valid for the following qua			
Г				किसी एक वित्तीय वर्ष में क्रय की जाने वाली अमोनियम नाइटेट
	नाम तथा विवरण		मय में मात्रा (कि.ग्रा.)	की मात्रा(कि.ग्रा.)
	Name and Description	Quantity	at a time (Kg.)	Quantity of Ammonium Nitrate to be purchased in a financial Year (Kg.)
L	Ammonium Nitrate (Sc	(bile	35000	420000
4. अनुज्ञप्त	परिसर निम्नलिखित आरेखण(णे) के अनुरूप होगा		
	ensed premises shall conform			
	परिसर निम्नलिखित पते पर स्थि	/SC/KL/P3/14 (A2264) दिना त हे	Ф Dated : 09/11/2017	
The Lie	ensed premises are situated at	t following address:		
		त्रागीव Town Village : Mana puzha जिला District : IDUI		
	ड PinCode : 685588फोन		फैक्स Fax :	
14-1 401	परिसर में निम्नलिखित सुविधाएँ			
6. अनुज्ञप्त	ensed premises consist of follo t of one store house .			
6. अनुज्ञप्त The lice Consis		Development a O.O. and	उसके अधीन बनाए गए अ	
6. अनुज्ञप्त The lice Consis 7. अनुज्ञपि	।, समय-समय पर यथा संशोधित वेत उपबन्धों के अधीन जारी की	विस्फोटक आधानयम् 1884, एव जाती है	out and and it a	मोनियम नाइट्रेट नियम, 2012 की शर्ते, अतिरिक्त शर्ते तथा
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		अनुज्ञप्ति नवीकरण के लिए पृष्ठांक	F: Endorsement for renewal of licence:	
	नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्ष Signature of li <u>censing author</u> i	t de la
	01/02/2022	31/03/2027	Signature of licensing authori Dy. Chief Controller of Explosives, E	makulam
	सांविधिक चेताव	<u>नीः</u> अमोनियम नाइट्रेट कानून व	ग दुरूपयोग कानूनी तौर पर गंभीर दण्डनीय अ te shall constitute serious criminal offence n	ापराध है ।
Note :- Th			te shall constitute serious criminal offence u	
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Conditions

मुख्य विस्फोटक नियंत्रक / या विस्फोटक नियंत्रक व्दारा प्रदत्त प्ररूप P-3 में विस्फोटक विनिर्माण इकाई (एएनएफओ) से जुड़े गोदाम से, अमोनियम नाईट्रेट के उपयोग के लिए, रखने हेतु अनुज्ञप्ति, अनुज्ञप्ति संख्या A/SC/KL/P3/14(A2264) की शर्ते निम्नलिखित हैं। The following are the conditions of licence number A/SC/KL/P3/14(A2264) to Licence to possess for use of Ammonium Nitrate from a

store house attached to explosives manufacturing unit (ANFO) in Form P-3 granted by the Chief Controller or Controller of Explosives.

- अमोनियम नाइटेट का भण्डारण अनुञ्चपित के साथ संलग्न अनुमोदित आरेखण में दर्शाए गए अनुज्ञप्त गोदाम या मेल्ट भण्डारण टैंक में ही किया जाएगा। L.
- The Ammonium Nitrate shall be possessed only in the licensed storehouse or melt storage tank shown in the approved plan attached with the License अमोनियम नाइट्रेट की मात्रा परिसर, में या उसके किसी भी भाग में, अनुज्ञप्त मात्रा, किसी एक समय में, से अधिक नहीं होनी चाहिए । 2
- अनावन नाइट्रेड का नाव वार्ट्स, व या उसके विज्ञान ना ना जुझर्स नावा, प्रयार्ट्स क्याव ने, आवके कि हाने वार्स्ट न The quantity for Ammonium Nitrate in the premises or any part thereof shall not exceed at any one time the quantity for which License has been issued. छलका हुआ या अपश्चिष्ट अमोनियम नाईट्रेट को एकत्र कर अनुइत्यिधारी द्वारा विनष्ट किया जाना चाहिए एवं विनष्ट किए गए अमोनियम नाइट्रेट की मात्रा का लेखाओखा रखा जायेगा ।
- Spilled or sweepings of Ammonium Nitrate the waste Ammonium Nitrate collected from sweeping or spilled shall be destroyed by the License holder and account thereof shall be maintained indicating the quantity of the Ammonium Nitrate destroyed.
- अनुज्ञादिधारी और विनिर्माण तथा संपरिवर्तन के लिए परिसर में नियुक्त प्रत्येक व्यक्ति को विनिर्माण तथा संपरिवंतन के लिए अनुज्ञादि परिसर में अग्नि या विस्फोट से होने वाली दुर्घटना से बचाव तथा विनिर्माण तथा संपरिवर्तन के लिए अनुझप्त परिसर में अनधिकृत व्यक्तियों के प्रवेश से बचाव तथा विनिर्माण तथा संपरिवर्तन छे लिए पूर्ण सावधानी बरतनी होगी एवं ऐसे किसी भी कार्य से विरत करना होगा जो अग्नि या विस्फोट का कारण बने एवं जो विनिर्माण तथा संपरिवर्तन परिसर में कार्य के उद्देश्य से आवश्यक न हो । The License holder and every person employed shall take all due precautions for prevention of accidents by fire or explosion in the licensed premises and
- for preventing unauthorized person from having access to licensed premises and shall abstain from any act from whatsoever which tends to cause or explosion and is not reasonably necessary for the purpose of works related thereto. मुख्य विस्फोटक नियंत्रक या अनुज्ञापन प्राधिकारी की पूर्व लिखित स्वीकृति के बिना अनुज्ञाप परिसर में किसी भी प्रकार का परिवर्तन एवं परिवर्धन नही किया जाएगा ।
- मुख्य विस्फोटक नियत्रक यो अनुसापन प्राथिकारी का पूर्व लिखित स्वाकृति के बना अनुसर्प पासेसर में किसा भी प्रकार का परिवर्तन एवं परिवर्धन नहा किया जाएगा। स्वीकृत किए गए इस प्रकार के परिवर्तन एवं परिवर्धन अनुझप्ति के साथ संलग्न संशोधित अरिखण में दर्शाएं जाएंगे। No additions and alterations shall be carried out in the licensed premises without a previous sanction in writing of the Licensing Authority. Such additions and alterations so sanctioned shall be shown in the amended plan attached to the License. अनुझपिधारक द्वारा विनिर्माण तथा संपरिवर्तन प्रक्रिया के पर्यवेक्षण एवं कार्यों का संचालन इन नियमों के अनुरूप करने हेतु एक योग्य एवं सक्षम व्यक्ति नियुक्त किया 6:
- The License holder shall appoint a competent person to supervise the operations shall be conducted under the supervision of the competent person. किसी निरीक्षण अधिकारी या नमूना लेने वाले अधिकारी को अनुज्ञप्त परिसर में युक्तियुक्त समय पर बराबर अबाध पहुँच प्रदान की जाएगी और ऐसे अधिकारी को वे सभी सुविधाएँ उपलब्ध की जाएगी जिससे कि वह सुनिश्चित कर सके कि अधिनियम और इन नियमों के उपबंधों एवं सुरक्षा संबंधी शर्तों का सम्यक रूप से पालन किया जा रहा है।
- Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and all facilities shall be offered to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed. यदि जिला प्राधिकारी या निरीक्षण अधिकारी अनुज्ञतिधारी को लिखित में अधिकृत परिसर में कोई मरम्मत या कोई परिवर्तन या परिवर्धन या ऐसी सिफारिशो को
- क्रियान्वित करने के लिए, जो ऐसे अधिकारी की राय में अस्वीकार्य जोखिम उत्पन्न कर सकती है और इस प्रकार वह परिसर के बाहर या भीतर या व्यक्तियों की सुरक्षा के लिए आवश्यक है, सुचित करता है, तो अनुद्राप्तिधारी उन सिफारिशों को निष्पादित करेगा और ऐसे प्राधिकारी द्वारा विनिर्दिष्ट अवधि में अनुपालन की रिपोर्ट देगा 🏻 If the License Issuing authority or the inspecting officer informs in writing, the holder of the License to execute any repairs or to make any additions or
- alterations to the licensed premises or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and therefore the same is necessary for the safety or security of the premises or persons, the holder of the License shall execute the recommendations and report
- compliance within the period specified by such authority. अग्नि या विस्फोट से होने वाली दुर्घटनाओं और अमोनियम नाइट्रेट की हानि, उसमे कमी या चोरी की सूचना निकटतम पुलिस स्टेशन और जिला प्राधिकारी के स्थानीय कार्यालय को तुरुत्त, दी जाएगी। Accidents by fire or explosion and losses, shortage or theft of Ammonium Nitrate shall be immediately reported to the nearest police station and the
- District Authority 10.

- District Authonity. अनुद्राधियों अनुसूची-11 भाग 3 में विनिद्धिं प्ररूप में इनका अभिलेख रखेंगे जिससे कि अमोनियम नाइट्रेट के लिए उत्तरदायित्व सुनिश्चित कर उनकी पहचान कर खोज की जा सके एवं नियम 50 में विहित प्राधिकारी के मांगे जाने पर ऐसे अभिलेख प्रस्तुत किए जाएं । License holder shall maintain records in the prescribed forms specified in Schedule II Part 3 to ensure accountability, identification and traceability of Ammonium Nitrate and shall produce such records on demand to authority specified in rule 50. अनुदादियोसी, अनुसूची 11 भाग 3 में विनिद्धिं प्रारूप द-9 में जिला प्राधिकारी को मासिक विवरणी इस प्रकार प्रेषित करेंगे कि वह प्रत्येक आगामी महीने की 10 तारीख तक अनुदायांची, जनुसूची 11 भाग 3 में विनिद्धिं प्रारूप द-9 में जिला प्राधिकारी को मासिक विवरणी इस प्रकार प्रेषित करेंगे कि वह प्रत्येक आगामी महीने की 10 तारीख तक अनुसापन प्राधिकारी या जिला प्राधिकारी का प्राप्त हो जाए ।
- The License holder shall submit monthly returns of AN received, sold /used/stolen or short received and destroyed in the form prescribed in Form R-9 of Part 3 of Schedule II so as to reach Licensing Authority and District Authority within 10th day of every succeeding month

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कृते संयुक्त मुख्य विस्फोटक नियंत्रक दक्षिणांचल, चेन्ने For Joint Chief Controller of Explosives South Circle, Chennai

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.



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

ई-मेल Email: dycceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/38/21(E98818)

सेवा में | To,

George Kochuparambil, Proprietor,

M/s.United Granites & Metals, Manakkadu (v), Vazhithala P.O., Thodupuzha Taluk,, Town/Village - IDUKKI District-IDUKKI, State-Kerala, Pincode - 685588

विषय

Survey No.357/3, Block No.11,, ग्राम Manakkadu (v), Thodupuzha Taluk, जिला IDUKKI, राज्य Kerala में एनफ़ों विस्फोटक के एनफ़ों शेड में विनिर्माण हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-1 में जारी अनुज्ञप्ति सं E/SC/KL/38/21(E98818) के नवीनीकरण संदर्भ में। Subject:

Manufacturing of ANFO situated at Survey No.:357/3, Block No.11,, Manakkadu (v), Thodupuzha Taluk, Dist. IDUKKI, Kerala -Licence No.: E/SC/KL/38/21(E98818) granted in Form LE-1 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir.

आपका उपर्युक्त विषय पर पत्र संख्या Nil दिनांक 19/01/2022 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-1 में जारी अनुज्ञाप्ति दिनांक 31/3/2027 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No .: Nil dated: 19/01/2022, the subject licence duly renewed upto 31/3/2027 and issued in Form LE-1 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/ 2027 से पहले **इस कार्यालय** को भेजे जाएं.

For further renewal of licence, please submit the following documents so as to reach this office on or before 31/3/2027.

- प्ररूप आरई-। में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।
- Application in Form RE-1 duy Filed in and signed. एक से पाँच वर्ष के अनुझूरित शुल्को का, विस्फोटक नियम, 2008 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लाइसेंस शुल्क ऑनलाइन जमा किया जाना है।
- Licence fees renewable for one to five years, to be submitted online through e-payment facility available on online application portal under the Explosives Rules, 2008. अनुमोदित प्लान के साथ मूल अनुज्ञप्ति। .
- ांगुंगांवी licence with approved plan. कृपया इस संबंध में विस्फोटक नियम, 2008 के नियम 112 का भी संदर्भ ग्रहण करें।
 - . In this connection, please also refer to Rule 112 of Explosives Rules, 2008. आपके द्वारा विनिर्माण किए गए विस्फोटको का रिकार्ड (खाता) विस्फोटक नियम, 2008 के प्रारूप आर.इ.2 और आर.इ.5 में बनाए रखने की सलाह दी जाती है।

You are advised to maintain accounts of explosives manufactured by you in Form RE-2 and RE-5 of Explosives Rules, 2008.

भवदीय | Your's faithfully

AB3 en

(पी.के.राणा | Dr. P. K. Rana) विस्फोटक नियंत्रक | Controller of Explosives

कते उप मुख्य विस्फोटक नियंत्रक। For Dy. Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

1. ज़िला मजिस्ट्रेट (District Magistrate), IDUKKI (Kerala)- सूचना के लिए (for information.)

कृते उप मुख्य विस्फोटक नियंत्रक | For The Dy. Chief Controller of Explosives, कोच्ची | Ernakulam

(आधेक जानकारी जैसे आवेदन की स्थिति, शुल्क आदि के लिए हमारी वेबसाइट http://peso.gov.in देखें.)

(For more information regarding status, fees and other details please visit our website http://peso.gov.in) Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

दिनांक (Date): 01/02/2022

(বিरफोटक नियम, 2008 की अनुसूची 4 के 1(घ) दीखेए।) (See article 1(d) of Schedule IV of Explosives Rules, 2008) (10, एक समय में 200 किलोग्रम से अनर (par एफ फ्र.), ती देखोटक के विनिर्माण के लिए अनुसूचि Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time. ArgsTd से (Licence No.): ESC/KL/38/21(E98818) Ilide फीर रुपए (Annual Fee Rs): 1200/- Licence is hereby granted to George Kochuparambil: Proprietor (औरधमाग / Occupier : George Kochuparambil: No. United Grantes & Meals, Manakkada (v), Vazhitala P.O., Thodupuzha Taluk, Town/Village - IDUKKI, District-IDUKKI, State-Kerala, Pincode - 685588 को अनुसारि अनुदत्वा की जाती है। अनुसुचीरियोगरी की प्रास्थिति Status of licensee : Proprietorship Firm अनुसुचि तियोगरों को प्रास्थिति किस्सों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid only for the ANFO - के विनिर्माण के लिए। following purpose. 9 , अनुसिरि तियोगरेको के निमिलिखित किस्सों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: - (क) (a) 7 7 माने और विवरण वा नी और प्रमाग उप-प्रमाग मात्रा किसी एक समय में 7 . No. Name and Description Class & Division Sub-division Quantity at any one time 1 . ANFO 2 .0 0 200 Kg. 7 9 मुदीखित रेखाचित (रेखाचित्रो) से अनुसूच्या परिसर की पृष्टि रेखाचित्र कि. (Drawing No.) <i>E/SC/KL/38/21</i> (E98818) The licensed premises shall conform to the following ' दिनांकि (Dated) 02/04/2018 drawing(s): 9 9 अनुसिरि परिसर निर्मान्चिखित पाने पर स्थित है। The licensed premises are situated at following address: Survey No. 3 57/3, Block No.11, , प्रास (Town/Village) : Manakkadu (v), Thodupuzha Taluk, प्रेतिस याना (Police Station) : Thodupuzha 1 1 अन्द्रिही ने। 1 1 1 1 1 1 1 1 1 1		y Shri Dr. R.Venugopal, Joint Chief Controller of Explosives, Ernakulam on 29/04/2019
(१) एक समय में 200 किलोग्राम से अनयिक स्थल पर ए.एन.एफ.ओ. विस्फोटक के विनिर्माण के लिए अनुइति Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time. मुद्रापि से, Licence No, 1: EXC/KL/38/21(E98818) INक फोस रुपए (Annual Fee Rs): 1200- . Licence is hereby granted to George Kochaparambil, Proprietor (अधिपामा / Occupier : George Kochaparambil), Mis United Ginnics & Manika Manikado (v), Vacinitual P.O., Thodupuzha Taluk, Town/Village - IDUKKI, District-IDUKKI, State-Kerala, Pincede - 685588 को अनुवादि अनुवदा की जाती है।		
Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time. अनुझांचे से (Licence No.) : E/SC/KL/38/21(E98818) Ilife फीरे सरप्र (Annual Fee Rs): 1200/- Licence is hereby granted to George Kochuparambil, Proprietor (औधभागी / Occupier : George Kochuparambil), M/s.United Granties & Melak, Manakkadu (v), Vazhitala P.O., Thodupuzha Taluk,, Town/Village - IDUKKI, District-IDUKKI, State-Kenal, Pincode - 685588 क) अनुझांदी अनुदत्त की जाती है। अनुझांदी सफ़ोट्रकों के निम्नाशिखित किस्सों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid only for the ANFO - के विनिर्माण के लिए। following purpose. अनुझांदी सफोट्रकों के निम्नाशिखित किस्सों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: - (क) (a) To num और विवरण वा अंधे प्रमाय में 3. ANFO - 2.0 0 200 Kg. 		
भूतुर्घोंदो से, Licence No.) : E/SC/KL38/21(E98818) विक फीस रुपय् (Annual Fee Rs): 1200/- Licence is hereby granted to George Kochuparambil), M/s.United Granties & Markada (v), Varihithal P.O., Thodpuzha Talak, Town/Village - DUKKI, District-IDUKKI, State-Kerala, Pinode - 685588 को अनुवादि अनुवत्त की जाती है। अनुवादि में प्रसिर्थति I status of licensee : Proprietorship Firm अनुवादि मंग्रान्शित I status of licensee : Proprietorship Firm अनुवादि मंग्रान्शित I status of licensee : Proprietorship Firm अनुवादि मंग्रान्शित I status of licensee : Proprietorship Firm अनुवादि विस्फोटको के निम्नसिखित किसो, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) का नाम और विदयण वर्ग और मात्रा उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at my one time 1. ANFO 2.0 0 200 Kg. 		
॥षित्र फीस रुपए (Annual Fee Rs): 1200/- . Licence is hereby granted to George Kochuparambil). Proprietor (वीपिपांगी / Occupier : George Kochuparambil), M/s United Granutes & Mankiakov (V), Varbithale PO., Thodupuzha Taluk, Town/Village - IDUKKI, District-IDUKKI, State-Kerala, Pincode - 685588 क) अनुवारि अनुवर को जाती है। . अनुवारि मिसिल्डिव प्रयोजनों के तिए विधिमान्य है। Licence is valid only for the . ANFO - के विनिर्माण के लिए। Iollowing purpose. . अनुवारि सिफोटकों के निम्नसिल्डित किस्सों, प्रकार और माता के लिए विधिमान्य है। Licence is valid only for the . ANFO - के विनिर्माण के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) . के नाम और विदेयण . जा नाम और विदेयण . ANFO 2.0 0 . 200 Kg. . निम्नवित्ति रेखाचित्र), से अनुवाप परिसर की पृष्टि तिरोक्ति रेखाचित्र), से अनुवाप परिसर की पृष्टि . स्वाचित्र के, (Drawing No.) E/SC/KL/38/21(E98818) . तिनक्र (Drawing No.) E/SC/KL/38/21(E98818) . तिनक्र (Drawing No.) E/SC/KL/38/21(E98818) . तिनक्र (Drawing No.) E/SC/KL/38/21(E98818) . तिनक्र पि मिम्रलिखित पत्रे पर स्थित है। The licensed premises are situated at following address: Survey No. 357/3, Block No.11,, JIH (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुलिस याना (Police Station) : Thodupuzha . Sept at the class of Silf निया परिसर निम्नलिखित . सुराय परिसर निम्नलिखित . सुराय परिसर मे निम्नलिखित . अनुवादि समय – समय पर यथासंस्राधिद विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 बे . प्रयुव्वित क्रम से , 5 मे या कपित रेखाचित्र आधीनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 बे . अनुवादि सार्य स, 2008 framed there under and the conditions, additional conditions and the following Annexures 1. उपयुव्ति क्रम से , 5 मे या कपित रेखाचित्र पायान, सिम्रीमा संबी और अन्य विरच तर्य रेखु पुष्ठा.		Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time.
George Kochuparambil, Proprietor (अधिभीगी / Occupier : George Kochuparambil), M/s.United Granites & Metals, Manakidadu (v), Vazhithala P.O., Thodupuzha Taluk,, Town/Village - IDUKKI, Sistrict-IDUKKI, State-Kernak, Pincode - 685588 को अनुवादि अनुदत्त की जाती है। अनुवादि अनुदत्त की जाती है। अनुवादि मोनिश्विखित प्रयोजनों के (वार्ष विधानय है। Licence is valid only for the (a) जनुवादि तिक्यों, प्रकार और माता के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) (क) ताम और विदेरण (a) नाम और विदेरण (b) Mame and Description Class & Division Sub-division (c) 0 200 Kg. (c) 1 ANFO - 2,0 0 (c) 0 200 Kg. (c) 1 ANFO - 2,0 0 (c) 1 ANFO - 2,0 0 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1 (c) 1	3	।निज्ञाप्ति सं. (Licence No.) : E/SC/KL/38/21(E98818) ।षिक फीस रुपए (Annual Fee Rs): 1200/-
Granies & Merals, Manakkadu (v), Vazhithala P.O., Thodupuzha Taluk,, Town/Village-IDUKKI, District-IDUKKI, State-Kerala, Pincode - 685588 जे अनुवारिवे अनुदत्त की जाती है। अनुवारिवे अम्युदत्त की जाती है। अनुवारिवे अम्यों के IntRvitch (Status of licensee : Proprietorship Firm) अनुवारिवे सिफोटको के निम्रलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) क नाम और विररण वर्ग और प्रभाग उप-प्रभाग पात्रा किसी एक समय में फ़ नाम और विररण वर्ग और प्रभाग उप-प्रभाग पात्रा किसी एक समय में फ़ नाम और विररण वर्ग और प्रभाग उप-प्रभाग पात्रा किसी एक समय में फ़ नाम और विररण वर्ग और प्रभाग उप-प्रभाग पात्रा किसी एक समय में फ़ नाम और विररण वर्ग और प्रभाग (Status 0) फ़ नाम और विररण वर्ग और प्रभाग (Status 0) फ़ ना का रिवे विरण वर्ग परिसर की पुष्टि फ़ ना का रिवे विर पर परिसर की पुष्टि फ ना और विररण वर्ग और प्रभार की पुष्टि फ ना और विररण वर दिर कर (Drawing No.) E/SC/KL/38/21(E98818) फ ना रिवे विर पि पर	1.	Licence is hereby granted to
. अनुबार्पेवारों की प्रास्थिति । Staus of licensee : Proprietorship Firm अनुबार्पि निम्नलिखित प्रयोजनों के लिए विधिमान्य है। Licence is vaild only for the ANFO - के विनिर्माण के लिए । following purpose. अनुबारि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is vaild for the following kinds and quantity of explosives: (क) (a) के नाम और विवरण वर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time <u>1. ANFO</u> 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. . निमलि (Dated) 02/04/2018 drawing(s): . अनुबारिय परिसर निम्नलिखित पत्ने पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357.3, Block No.11, , ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk, पुलिस याना (Police Station) : Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) इं. मंल (E-Mail) फेक्स (Fax) अनुबारिय परिसर में निम्नलिखित सुविधार्य अंतर्विष्ठ हैं। : as per attached Annexture details The licensed premises consist of following facilities. . अनुबारिय समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शातों और अतिरिक्त शातों और निम्नलिखित उपाबच्यों 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 उपर्युक्त कम सं. 5 में यथा कथित रेखाचित्र (स्थान, सुब्लिकी यत्तो और अन्य विरचल व्रि करते हुएण्] Drawings (showing site, constructional and other details) as stated in serial No. 5 above. . अनुबारिय प्राधिक्स यारा हस्ताक्षरित इस अनुबार्दि की सार्त और से स्विरिक्स खेते . Quafiting स अनुबार		Granites & Metals, Manakkadu (v), Vazhithala P.O., Thodupuzha Taluk,, Town/Village - IDUKKI,
. अनुबार्पेवारों की प्रास्थिति । Staus of licensee : Proprietorship Firm अनुबार्पि निम्नलिखित प्रयोजनों के लिए विधिमान्य है। Licence is vaild only for the ANFO - के विनिर्माण के लिए । following purpose. अनुबारि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is vaild for the following kinds and quantity of explosives: (क) (a) के नाम और विवरण वर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time <u>1. ANFO</u> 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुबारप परिसर की पुष्टि होती है। . ANFO 2.0 0 200 Kg. . निमलि (Dated) 02/04/2018 drawing(s): . अनुबारिय परिसर निम्नलिखित पत्ने पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357.3, Block No.11, , ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk, पुलिस याना (Police Station) : Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) इं. मंल (E-Mail) फेक्स (Fax) अनुबारिय परिसर में निम्नलिखित सुविधार्य अंतर्विष्ठ हैं। : as per attached Annexture details The licensed premises consist of following facilities. . अनुबारिय समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शातों और अतिरिक्त शातों और निम्नलिखित उपाबच्यों 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 उपर्युक्त कम सं. 5 में यथा कथित रेखाचित्र (स्थान, सुब्लिकी यत्तो और अन्य विरचल व्रि करते हुएण्] Drawings (showing site, constructional and other details) as stated in serial No. 5 above. . अनुबारिय प्राधिक्स यारा हस्ताक्षरित इस अनुबार्दि की सार्त और से स्विरिक्स खेते . Quafiting स अनुबार		को अनुज्ञप्ति अनुदत्त की जाती है।
 अनुञ्चपि निम्नलिखित प्रयोजनों के लिए विधिमान्य है। अनुञ्चपि निम्नलिखित प्रयोजनों के लिए विधिमान्य है। अनुञ्चपि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid only for the information of explosives: - (क) (a) क नाम और विवरण वर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में sr. No. Name and Description Class & Division Sub-division Quantity at any one time 1. ANFO 2.0 0 200 Kg. निम्नलिखित रेखावित्र (रेखावित्र) से अनुज्ञप्रत परिसर की पुष्टि होती है। नेम लिए विखित पर परिसर की पुष्टि रेखावित्र (रेखावित्र) से अनुज्जप्त परिसर की पुष्टि रेखावित्र कर, (Drawing No.) E/SC/KL/38/21(E98818) नेम licensed premises shall conform to the following datess: Survey No. 357/3, Block No.11, , ग्राम (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुरिस थाना (Police Station): Thodupuzha जेल्वा (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 तुराधा परिसर में निम्नलिखित यत्रों रे राज्य (State) अनुञ्चपि परिसर में निम्नलिखित हों। : as per attached Annexture details गिला (District): in DUKKI राज्य (State) for any solitor and the following facilities. अनुञ्चपि परिसर में निम्नलिखित : as per attached Annexture details गिला (District): in Ducki देखाचित्र तथाचित्र प्रधान्य के अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शारों और अतिरिक्त शारों और निम्नलिखित उपाबच्यों के अधीन रहते हुए अनुदक्त की जाती है। त्याबंधो, शार्र प्रधिवर्म वर्धा कि प्रधाह कर, क्राखार कर, क्रुप्रणु प्रिलंक कर हुत्र हिंग प्रधाह कर, विद्र में क्रि और करन्य हिंग हिंग विरचित करते हुएण् Drawings (showing site, constructional and other details) as stated in serial No. 5 above. रार्युर्वति प्रार्धिका तार्धे आ मात्र 2023 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022 त्य क्रि की यत्ते रि की रार्धे और अत्विक्त शारों तो रार्धे और अत्व विरक्त रार्धे। उपर्युत्त ति तरिष्ठ शार्च क अधीन विरचित नियम या उत्त जुर्ध न तिथा विरचत	2.	
Licence is valid only for the ANFO - के विनिमाण के लिए। following purpose. अनुत्रुपति विस्फोटकों के निम्नविखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) क नाम और विवरण वर्ग और प्रमाग उप-प्रमाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time 1. ANFO 2.0 200 Kg. निम्नविखित रेखावित्र) से अनुत्राप्त परिसर की पुष्टि होती है। The licensed premises shall conform to the following drawing(s): अनुत्राप्ति परिसर निम्नलिखित पत्ते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357/3, Block No.11, , ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk, पुलिस थाना (Police Station) : Thodupuzha छिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दुरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax) अनुत्राप्ति परिसर में निम्नलिखित सुत्विधार्य अतिरिष्ठ हैं। : as per attached Annexture details The licensed premises consist of following faithties. अनुत्राप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपचंधे, शतौ और अतिरिवत्त शतौ और निम्नलिखित उपाबच्धे के अधीन रहते हुए अनुदत्त की जाती है। The license 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. . अपर्युत्त प्रमे सम दे भा ये करि स्थानिय स्थान्यि (स्थान, सन्निर्माण संबंधी और अन्य विरण दर्शित करते हुए¶ Drawings (showing site, constructional and other details) as stated in serial No. 5 above. . अपरुक्ति प्रार्थ करा सिरास सुर्क्ति स्य जुत्तुत्ति की यातें और अतिरित्त वार्ती. Conditions and Additional Conditions of this licence signed by the licensing authority. . परिश्व अनुत्राप्ते तारिक्त आदा त्रियानाय रहेगी। This licence shall remain valid till 31st day of Mareh 2022 यह अनुत्राप्ति तारिक्ष 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain v		. अनुज्ञपि निम्नलिखित प्रयोजनों के
अनुत्रापि विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है। Licence is valid for the following kinds and quantity of explosives: (क) (a) क नाम और विवरण वर्ग और प्रमाग उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time 1. ANFO 2.0 0.200 Kg. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञप्त परिसर की पुष्टि होती है। The licensed premises shall conform to the following drawing(s): . अनुज्ञपि परिसर निम्नलिखित पत्ते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357/3, Block No.11,, JIH (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुलिस थाना (Police Station): Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax) अनुज्जपि परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। The licensed premises consist of following facilities. अनुज्जपि समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपर्ख से, शत्तों और अतिरिक्त शतों और निम्नलिखित उपाबच्दों 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, सत्रिमणि संबंधी और अन्य विवरण दर्शित करते हुए¶] Drawings (showing site, constructional and other details) as stated in serial No. 5 above. 2. अनुजापि प्राधिकारी व्यारा हस्ताक्षरित इस अनुजापि की शर्ते और अतिरिक्त रावीं, रिया हिंदा सिंदी जीर ते स्थान्त स्थाना सहेगी हो अत्र अति तिनरि इर्य गु पह अनुजापि जायिकरा वचा सरके अधीन विरचित विरकरो हुए¶] Drawings (showing site, constructional and other details) as stated in serial No. 5 above. 2. अनुजापि प्राधिकारी व्यारा हस्ताक्षरित इस अनुजापि की शर्ते और अतिरिक्त रावीं। 2. प्रत्युजरि जी सार्य 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022 यह		Licence is valid only for the ANFO - के विनिर्माण के लिए।
Licence is valid for the following kinds and quantity of explosives: - (क) (a) क नाम और विवरण वर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में Sr. No. Name and Description Class & Division Sub-division Quantity at any one time 1. ANFO 2.0 0 200 Kg. 	4.	
कनाम और विरणवर्ग और प्रभागउप-प्रभागमात्रा किसी एक समय मेंSr. No.Name and DescriptionClass & DivisionSub-divisionQuantity at any one time1.ANFO2.00200 Kg.निम्नलिखित रेखाचित्र) से अनुज्ञप्त परिसर की पुष्टिहेती है।तेती है।The licensed premises shall conform to the followingअनुज्ञपि परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:Survey No. 3573, Block No.11,, ग्राम (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुलिस थाना(Police Station): Thodupuzhaजेला (District)IDUKKIराज्य (State)Keralaपैनकोड (Pincode)685588दूरभाष (Phone)ई. मेल (E-Mail)फेक्स (Fax)अनुज्जपि परिसर में निम्नलिखित.as per attached Annexture detailsThe licensed premises consist offollowing facilities.अनुजापि समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वेउपार्थ के से अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों 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 theExplosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.1.उपर्युत्तक्र स. 5 में यथा कपित रेखाचित्र (स्थान, सत्निर्माण संबंधी और अत्य विरण दर्धित करते हुएम)Drawings (showing site, constructional and other details) as stated in serial No. 5 above.2.अनुज्जाति प्राधिकारी व्यार हत्ताक्षरित्त इस अनुज्जाति की शतिरिक		
Sr. No. Name and Description Class & Division Sub-division Quantity at any one time 1. ANFO 2.0 0 200 Kg. 17 मुद्राविय रेखाचित्र (रेखाचित्र) से अनुजप्त परिसर की पृष्टि होती है। * * रेखाचित्र क. (Drawing No.) E/SC/KL/38/21(E98818) The licensed premises shall conform to the following drawing(s): *		क नाम और विवरण तर्ग और प्रभाग उप-प्रभाग मात्रा किसी एक समय में
1. ANFO 2,0 0 200 Kg. निम्नलिखित रेखाचित्र (रेखाचित्र) से अनुज्ञप्त परिसर की पुष्टि होती है। ? ? ? The licensed premises shall conform to the following drawing(s): . ? ? ? ? अनुज्ञति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357/3, Block No.11, , ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk, पुलिस थाना (Police Station) : Thodupuzha जिंती (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) ई. मंल (E-Mail) फेक्स (Fax) अनुज्जति परिसर में निम्नलिखित सुविधारं अंतर्विष्ट हैं। : as per attached Annexture details . <t< td=""><td></td><td></td></t<>		
होती है। The licensed premises shall conform to the following drawing(s): . अनुञ्चपि परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357/3, Block No.11,, ग्राम (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुलिस थाना (Police Station): Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax) अनुञ्चपि परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : as per attached Annexture details The licensed premises consist of following facilities. अनुञ्चपि परिसर मां निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : as per attached Annexture details 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. अनुञ्चपि पाधिकारी व्यारा हस्ताक्षरित इस अनुञ्चपि की शर्ती और अतिरिक्त शर्ती। Conditions and Additional Conditions of this licence signed by the licensing authority. 3. परिशिष्ट Annexure 4. यह अनुञ्चपि तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022 यह अनुञ्चपि, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट set III के अधीन तथा उपवर्षित इस अनुञ्चपित की शर्तो का अधिक्रमण करने या यदि अनुञ्चपत परिसर योजना या उससे संलग्न उपबंध में दर्शित विरयण के अनुरूप्प नहीं पाए जाने पर निर्वाबत या प्रतिसंहत की जा सकती है, जहां वह लागू हो।		
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The licensed premises shall conform to the following ंदिनोंक (Dated) 02/04/2018 drawing(s): . अनुज्ञपित परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address: Survey No. 357/3, Block No.11, , ग्राम (Town/Village): Manakkadu (v), Thodupuzha Taluk, पुलिस याना (Police Station): Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) ई. मंल (E-Mail) फैक्स (Fax) अनुज्ञपित परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : as per attached Annexture details The licensed premises consist of following facilities. अनुज्ञपित समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों के अधीन रहते हुए अनुवत्त 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) 2. अनुज्ञपित प्राप्ति कर यत्न हात्साक्षरित इस अनुज्ञपि की शर्ते और अतिरिक्त शर्तें। Conditions and Additional Conditions of this licence signed by the licensing authority. 3. परिशिष्ट Annexure 4. यह अनुज्ञपित तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022 यह अनुज्ञपित, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट Set III के अधीन तथा उपयणित इस अनुज्जपि की शर्तों का अधिक्रमण करने या यदि अनुज्रप्त परिसर योजना या उससे संलग्न उपबंध में दर्शित विरया के अनुरूप्प नहीं पाए जाने पर निर्वाहित त्वर यो प्रति संहत की जा सकती है, जहां वह लागू हो।		होती है। रेखाचित्र क्र. (Drawing No.) E/SC/KL/38/21(E98818)
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Survey No. 357/3, Block No.11, , ग्राम (Town/Village) : Manakkadu (v), Thodupuzha Taluk, पुलिस थाना (Police Station) : Thodupuzha जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588 दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax) 685588 अनुज्ञपि परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं। : as per attached Annexture details 685588 अनुज्ञपि समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्यों 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 हुएष्ट्रा Drawings (showing site, constructional and other details) as stated in serial No. 5 above. 2. अनुज्ञपि प्राधिकारी वदारा हस्ताक्षरित इस अनुज्ञपि की शर्ते और अतिरिक्त शर्तें। Conditions and Additional Conditions of this licence signed by the licensing authority. 3. परिष्टि से 31 मार्च 2022 तक विधिमान्य रहेगी। 7. उपर्वशित तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। 7. अनुज्ञपि तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। 7. पह अनुज्ञपि तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। <td>5.</td> <td>अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:</td>	5.	अनुज्ञप्ति परिसर निम्नलिखित पते पर स्थित हैं। The licensed premises are situated at following address:
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Conditions and Additional Conditions of this licence signed by the licensing authority. 3. परिशिष्ट Annexure 2. यह अनुज्ञप्ति तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022 यह अनुज्ञप्ति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट Set III के अधीन तथा उपवर्णित इस अनुज्ञप्ति की शर्तों का अधिक्रमण करने या यदि अनुज्ञप्त 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।		सुर्विधाएं अंतर्विष्ट हैं। The licensed premises consist of following facilities. अनुज्ञप्ति समय – समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 वे उपबंधो, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबध्दों 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¶□
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तारीख The Date - 02/0	4/2018	संयुक्त मुख्य विस्फोटक नि	Se नेयंत्रक Joint Chief Controller Explosiv
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मुख्य विरुकोटक नियंत्रक या विस्फोटक नियंत्रक व्दारा अनुदत्त प्ररूप एल ई । (अनुच्छेद्र (घ)। में ए.एन.एफ.ओ. विस्फोटकों के विनिर्माण के लिए अनुज्ञप्ति सं. E/SC/KL/38/21(E98818) की शर्त निम्नलिखित हैं । The following are the conditions of licence number E/SC/KL/38/21(E98818) for manufacture of ANFO explosives in Form LE-1

[article 1(d)] granted by Controller or Controller of Explosives.

- परिसर या उसके किसी भाग में एएनएफओ विस्फोटकों की मात्रा किसी एक समय में उस मात्रा से अधिक नहीं होगी. जिसकें लिए अनुज्ञप्ति 1. जारी की गई है ।
 - The quantity of ANFO explosives in the premises or any part thereof shall not exceed at any one time the quantity for which licence has been issued
- एएनुएफओ विनिर्माण शेड को 15 मीट्र की दूरी पर बाड़ लगा कर संरक्षित किया जाएगा और वह अनुसूची- VIII की सारणी 1 में यथाविनिर्दिष्ट संरक्षित संकर्मी से सुरक्षा दूरी बनाए रखेगा ।
- The ANFO manufacturing shed shall be protected by a fencing at a distance of 15 metres and it shall maintain safety distance from protected works as specified in table 1 of Schedule VIII. शेड में कार्य कड़ाई में अधिकथित सुरक्षाकार्य प्रक्रियाओं और अनुदेशों के अनुसार किया जाएगा।
- Work in the shed shall be carried out strictly in accordance with the laid down safe working procedures and instructions एएनएफओ विस्फोटकों को विनिर्माण अनुज्ञपिधारी व्दारा नियुक्त किसी अर्हित उत्तरदायी व्यक्ति के सीधे पर्यवेक्षणाधीन किया जाएगा ।
- The ANFO explosives shall be manufactured under the immediate supervision of a qualified responsible person appointed by the license
- अनुइप्तिधारी और प्रत्येक नियोजित व्यक्ति उस स्थान या उन स्थानकों में जहां एएनएफओ विस्फोटकों का विनिर्माण किया जात है या देखभाल की जाती है या उपयोग किया जाता है, अग्नि या विस्फोटक के कारण होने वाली दुर्घटनाओं को रोकने के लिए सभी सम्यक पूर्वाधानियां बरतेंगे । The licensee and every person employed shall take all due precautions for the prevention of accidents by fire or explosion. in the place or places where the ANFO explosives is manufactured, handled or used.
- एएनुएफओ विस्फोटकों के सभी अवशैषों को एकत्रित किया जाएगा और अनुभवी व्याक्ति के पर्यवेक्षण के अधीन अनुज्ञप्त परिसर से दूर किसी सुरक्षित स्थान में नष्ट किया जाएगा ।

All spillage of ANFO explosive shall be collected and destroyed at a safe place away from the licensed premises under the supervision of experienced person. एएनएफओ वि्स्फोटकों के विनिर्माण के लिए प्रयुक्त आधानों और मिश्रणों को प्रयोग के पश्चात उपयुक्त डिटरजेन्टण घोल से अच्छी तरह साफ

- 7. किए जाएगा और जल से धोया जाएगा । All containers and mixers used for manufacturing the ANFO explosive shall after use, be thoroughly cleaned with suitable detergent
- solution and washed with water. अनुज्ञप्तिधारी और कर्मचारी परिसरों के भीतर अपात के दौरान की जानेवाली प्रक्रिया से अवगत होंगे ।

The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises. किसी निरीक्षण या नमूना लेने वाले अधिकारी को सभी युवितयुक्त समयों पर अनुझप्त परिसर में अबाध पहुंच प्रदान की जाएगी और यह 9. अभिनिश्चित करने के लिए कि अधिनियम और डून नियमों के उपबंधों या सुरक्षा संबंधों शर्तों का सम्यक रूप से पॉलन किया जाता है, अधिकारी को प्रत्येक सुविधा उपलब्धक करवाई जाएगी । उस

Free access to the licensed premises shall be given at all reasonable times to any inspecting or sampling officer and every facility shall be afforded to the officer for ascertaining that the provisions of the Act and these rules and the safety conditions are duly observed.

यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक लिखित में अनुज्ञप्ति धारक को अनुज्ञप्त परिसर या मशीनरी, औजारों या साधित्रों में कोई 10. मरम्मत या कोई परिवर्धन या परिवर्तन करने के लिए या ऐसी सिफारिशों को क्रियान्वित करने के लिए. जोखिम प्रदर्शित कर सकती है और परिसर या व्यक्तियों की स्थल पर या स्थल से बाहर सुरक्षा के लिए आवश्यक है, सुचित करता है जो अनुज्जप्ति धारक उन सिफारिशों को निष्पादित करेगा और ऐसे प्राधिकारी व्दा रा विनिर्दिष्ट अवधि के भीतर अनुपालन की रिपोर्ट देगा ।

If the licensing authority or a Controller of Explosives informs in writing , the holder of the licence to execute any repairs or to make any additions or alterations to the licensed premises or machinery, tools or apparatus or carry out recommendations, which are in the opinion of such authority may pose unacceptable risk and so necessary for the safety of either on-site or off-site of the premises or persons, the holder of the license shall execute the recommendations and report compliance within the period specified by such authority

अग्नि या विस्फोट के कारण होनेवाली दुर्घटनाओं और विस्फोटकों की हानि, कमी या चोरी के बारे में निकटतम पुलिस स्टेशन और अनुज्ञापन II. प्राधिकारी तथा अनूज्ञापन प्राधिकारी के स्थारनीय कार्यालय में तुरंत रिपोर्ट की जाएगी ।

Accidents by fire or explosion and losses, shortage or theft of explosives shall be immediately reported to the nearest police station and the licensing authority and local office of the licensing authority

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कृते संयुक्त मुख्य विस्फोटक नियंत्रक For Joint Chief Controller of Explosives दक्षिणांचल, चेत्रे। South Circle, Chennai

Note :- This is system generated document does not require physical signature. Applicant may take printout for their records.

KSPCB LICENSE

FILE NO : PCB/RO-EKM/IDK/OL-845/18 Date of issue : 16/07/2018



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. :7515269 Dated:28-06-2018

то

M/s SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS GEORGE KOCHUPARAMBIL VAZHITHALA P O THODUPUZHA

Consent No. :018IDKCTOA7515269 Valid Upto :15/07/2023

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.

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1	VALIDITY	15/07/2023
2	Name and Address of the establishment	SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS VAZHITHALA P O THODUPUZHA 685583
3	Communication	Telephone :91-9995878898 Fax :- E-mail:unitedgranitesandmetals@gmail.com
4	Occupier Details	GEORGE KOCHUPARAMBIL KOCHUPARAMBIL(H) MANAKKAD VAZHITHALA
5	Local Body	MANAKADU PNCHAYATH
6	Survey Number	351/1 pt,354/4,354/5,355/1pt,352/1pt,350
7	Village	MANAKKAD
8	Taluk	THODUPUZHA
9	District	IDUKKI
0	Capital Investment(Rs in Lakhs)	1200
11	Scale	Large
12	Category	RED
13	Annual fee(Rs)	Rs. 81000
	Total Fee remitted(Rs)	Rs. 405000/-
14	RAW MATERIAL	PRODUCTS
	ROCK/Y @400000 Metric Tonnes	STONE AGGREGATES/Y @400000 Metric Tonnes
15	Total Power Required (HP)	

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:

2.3 Effluent generation:

2.4 The characteristics of effluent after treatment shall confirm to the following tolerance limits:

SI.NO.	Characteristics	Unit	Tolerance Limit	t
0111101			Sewage	Trade Effluent

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Succession Stack No. No. Stack No. Succession Stack No. Succession Stack No. Succession Stack Height above Control Equipment Stack Sources of Emission Emission Stack Height above Control Equipment 3.2 Emission characteristics shall not exceed the following: Stack Immunot Rate(Nm3/Hr) Roof Level Immunot 3.2 Emission characteristics shall not exceed the following: SLNo. Parameter Limiting Standards (mg/Nm3) 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 Pollog (Regulation and Control) Rules 2000. 4.2 Used lead acid batterics shall be disposed of as per the Batteries (Management and Handling) Rule 2001 4.3 Hazardous waste generated, if any, shall be handled as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	Ind Control of Pollution)Act, 1981 illution control measures shall be operational at all times during the functioning of the onal facilities required, if any, to achieve the standards laid down by the Board shall ong with. in Emission Rate(Nm3/Hr) in Emission Rate(Nm3/Hr) Ground Level Control Equipment cteristics shall not exceed the following: Parameter Limiting Standards (mg/Nm3) ER rotection) Act, 1986. If the industry shall be strictly in compliance with the provisions of the Noise Pollution Control) Rules 2000. batterics shall be disposed of as per the Batteries (Management and Handling) Rules, e generated, if any, shall be handled as per the Hazardous and Other Wastes and Transboundary Movement) Rules, 2016. hich Authorisation is granted Image: Control Rule of storage/collection/disposal of hazardous wastes shall be as follows:	2.5	Mode of disposal of	treated effluent:				
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Reception Storage	ind mode of storage/collection/disposal of hazardous wastes shall be as follows:		Activities for which a	ansboundary Moveme	ent) Rules, 201	6.		-
Treatment Reprocessing/Disposat		Collect	Activities for which A	ansboundary Moveme	ent) Rules, 201	6.		-
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thereafter, application in the prescribed form shall be submitted through the web portal of the Board for -Online Consent Management & Monitoring System on or before 16.04.2023. Late application will be accepted with a fine or late fee as applicable.

5.2 This consent is granted for operating quarry with production capacity of 200MT/day granite boulders.

5.3 The consent issued from the board is only with respect to the powers vested under the water Act 1974 Air Act 1981 and the Rules there under. The operation of the unit shall be commenced only after obtaining clearances from all concerned Authorities.

5.4 The applicant shall comply with the instructions that the Board may issue from time to time regarding prevention and control of air, water, land and sound pollution.

5.5 A minimum distance of at least 50m shall be kept from the boundary of quarry area to residential buildings, places of worship, public buildings, public road having vehicular traffic, river or lake, railway fine and bridges.

5.6 All control measures provided should be maintained properly to ensure that the system is adequate to control the pollution caused.

5.7 The quarry should not be operated between 6.00 pm and 6.00am.

5.8 Necessary permission from Mining & Geology, Explosive Department may be obtained before doing blasting.

5.9 After excavation at the site is completed the land may be used for rain water harvesting with protective barriers/any other suitable approved purpose or may be reclaimed.

5.10 The depth of excavation below the highest point shall not exceed 6m.

5.11 Fencing shall be provided around the boundary of quarry operation and shall be maintained properly.

5.12 The PM10 in ambient air at the boundary shall not exceed 100 µg/m3.

5.13 The PM2.5 in ambient air at the boundary shall not exceed 60 µg/m3.

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

5.15 The consent issued from the Board shall be valid only for a period when all other statutory or necessary clearance from other concerned authorities are valid.

5.16 No other machineries shall be operated without prior Consent of the Board.

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5.17 The validity of this Consent is subject to subsequent Government Orders & directions/judgement of Honourable High Court and National Green Tribunal.

5.18 The location of the quarry unit shall be as shown in the drawing attached and no change, deviation or alteration that may affect the environment, extend and location of the quarry shall be made.

5.19 Fugitive emission from the premises shall be supressed.

5.20 Products shall be transported with proper cover and/ or after wetting to prevent spreading of dust.

5.21 All the conditions stipulated in the Environmental clearance No.56/2018 shall be fully complied with during operation of the quarry.

5.22 For renewal of the consent 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 3 months prior to the date of expiry. Late application will be accepted only with fine.

DATE :16/07/2018

BAUUMA Digitally signed by BAUUMA Date: 2018.07.18 12:08:10 +05'30' SIGNATURE & SEAL OF ISSUING AUTHORITY



To

SRLGEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS VAZHITHALA P O THODUPUZHA

Copy to:

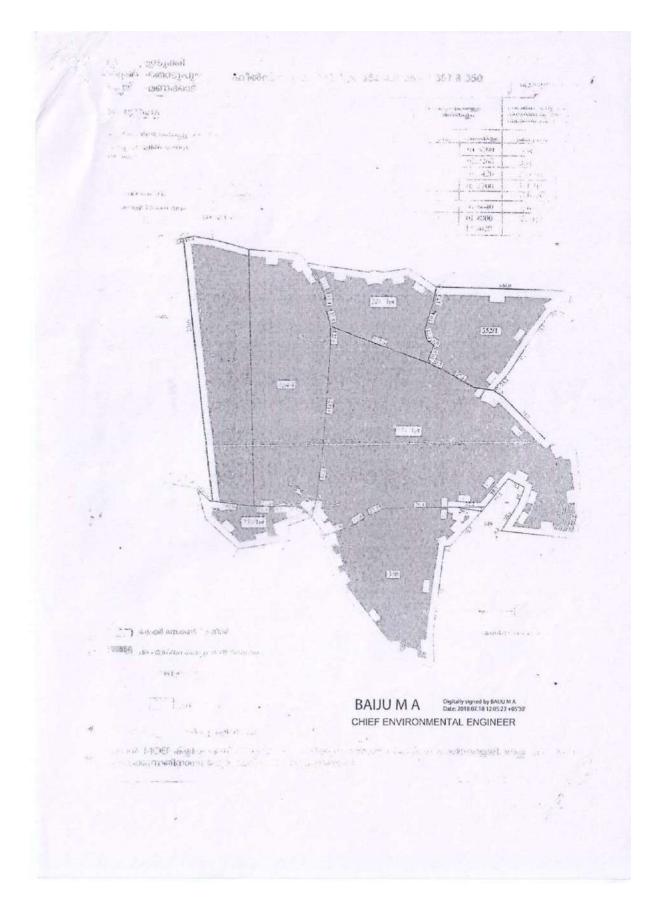
1. Member Secretary, Head Office, Trivandrum

2. Environmental Engineer, District Office, Idukki

1. This digitally signed document is legally valid as per the Information Technology Act 2000

2. For verifying this document please go to krocmms.nic.in and search using date of issue/name of the unit/Application Number in "Consent Granted Applications" link in the home page of the Board's Online Consent Management and Monitoring System.

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KERALA STATE POLLUTION CONTROL BOARD

FILE NO. :PCB/RO-EKM/IDK/OL-845/18 Date of issue :2018-10-17

CONSENT VARIATION ORDER

Consent No: 018IDKCV08831136

Ref : 1. Consent No.018IDKCTOA7515269 dated 16/07/2018 valid Up to 15/07/2023 2. Consent Variation Order No:O18LDKCVO 8454273 Dated:4.9.2018

The 'Integrated Consent to Operate' issued as per reference above to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS,

VAZHITHALA P O, THODUPUZHA is hereby modified & issued to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS,

VAZHITHALA P O, THODUPUZHA The consent(s)/ variation order(s) cited under reference are integral part of this consent variation order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

I. GENERAL

S.No.	Items	Description
1	Survey No	Re Survey Nos.351/1pt,354/4,354/5,355/1pt,352/1pt,350
2	Total Power Required (HP)	444 HP

II. CONDITIONS

2.1.Condition no.5.2 is modified as: This consent is granted for operating quarry with a production capacity of 1500 T/day granite boulders.

All other conditions of the Integrated Consent to Operate issued as per reference above remain unchanged.

DATE :17/10/2018

BAIJUMA Digitally signed by BAUUMA Date: 2018.10.17 12:39:25 +05'30' SIGNATURE & SEAL OF ISSUING AUTHORITY CHIEF ENVIRONMENTAL ENGINEER



To SRI.GEORGE KOCHUPARAMBIL,QUARRY OF UNITED GRANITES & METALS, VAZHITHALA P O, THODUPUZHA

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നോട്ടീസ് പൊത്രജനശ്രദ്ധയ്യായി, കേരള സംസ്ഥാനം, ഇട്ടക്കി ജില്ല, തൊട്ടപഴ ലൂക്ക്, മണക്കാട് തൊട്ടപുഴ ലൂക്ക്, മണക്കാട് ഗ്രാമപഞ്ഞ, തത്, മണക്കാട് വില്ലേജിലുംപെട്ട റീസർവ്വേ mmud 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt-08 പാറഖനനം ചെയ്യന്നതിനുവേണ്ട പരിസ്ഥിതി അന്മതി ശ്രീ. ജോർഞ്ഞ് കൊച്ചപറമ്പിൽ-ന് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്റ്റസ്മെന്റ് അതോറിറിയിൽനിന്നും ഓർഡർ moud 1137/EC/SEIAA/KL/2017 തീയതി 17-03-2018 ഓർഡർ പ്പകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്റ്റസ്മെന്റ് അതോറിറ്റിയിൽ elevasori, www.seiaakerala.org എന്ന വെബ്സൈറ്റിൽക്കടിയും പകർപ്പ് കാണാവുന്നതാണ്.

PUBLIC NOTICE NOTICE This is to inform to the General Public that, the proposed quarry project in Re-Survey Nos. 354/4, 354/5, 355/1pt., 351/1pt., 350, 352/1pt. of Shri. George Kochuparambil at Manakkad Village, Manakkad Grama Panchayat, Thodupuzha Taluk, Idukki District, Kerala is accorded with ENVIRONMENTAL CLEARANCE by State Environment Impact Assessment Authority, Karala vide Order No. 1137/ EC/SEIAA/KL/2017 dt 17-03-2018 and the copy of the Environmental Clearance is available with the office of State Environment Impact Assessment Authority and may also be seen on the website of the Authority at www.seiaakerala.org

NEWSPAPER ADS

Panchayat License

ലൈസൻസ് നമ്പർ-02/2022 -/2023/A6/482/	2022 @@lmimi-31/03/2022
പുതുപ്പരിയാം	ട് ഗ്രാമപഞ്ചായത്ത് ചെപിര,ഇടുക്കി (ജില്ല) പിൻ-685608 ഉ-മെയിൽ-manakkadgp gmail.com
നത്കുന്ന	/ സംരാഭകത്വം/ മറ്റ് സേവനങ്ങൾ എന്നിവയ്ക്ക് ലൈസൻസ്
(കെ.പി.ആർആക്ട് സെക്ഷൻ–232,FT ലൈസൻസിയുടെ പേരും മേൽവിലാസവും	ലോർജ് കൊച്ചുപറമ്പിൽ കൊച്ചുപറമ്പിൽ കൊച്ചുപറമ്പിൽ,വഴിത്തല പി.ഒ.
സ്ഥാപനത്തിന്റെ പേരും സ്ഥലനാമവും	യുണൈറ്റഡ് ഗ്രാനൈറ്റ്സ്&മെറ്റൽസ്
ലൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്ത നങ്ങൾ	കരിങ്കൽ ക്വാറി നടത്തുന്നതിന്
കെട്ടിടത്തിന്റെ നമ്പരും വാർഡ് നമ്പരും	Ward 12 Sy No.354/4,354/5,355/1pt,351/1pt,350,352/1
ലൈസൻസ് കാലയളവ്	01/04/2022 മുതൽ 31/03/2023 വരെ
ലൈസൻസ് ഫീസ്	15000/ ญญ
തൊഴില് നികുതി	രസീത് നമ്പർ 121010102780 തീയതി 24/02/2022 2500/ രസീത് നമ്പർ 121010102780 തീയതി 24/02/2022
മെഷിനറി ഫീസ്	4400/ സ്വെത് നമ്പർ 121010102780 തിയതി 24/02/2022
	1.Consent to operate from PCB No.PCB/RO-EKM/IDk /OL- 845/2018dtd08/16/07/2018Valid upto15/07/2023
ലൈസൻസ് അനുവദിക്കുന്നതിനായി ഹാജരാക്കിയ നിരാക്ഷേപ പത്രങ്ങളുടെ വിശദാംശങ്ങൾ (നമ്പർ, തീയതി, കാ	2.Environmental clearance certificate No- 1137/EC/SEIAA/KL/2017-dtd 17/03/2018 valid upto- 16/03/2023
ലയളവ്, നൽകിയ അധികാരസ്ഥാനം)	3.Certificate from explosives safety organisation No- E/SE/KL/22/811(E38112) dtd 06/02/2020 valid upto 31/03/2025
	4.Blastmans certificate
a town and the second	ന്നാലില് ഒക.എൻ. സുലില് ഒക.എൻ. സെക്രാർ നോക്കാട് ബാപോലായത് എല്ലോലെ ഒ. ഇറ്റുക്ക് 508 ഫ്ലോലാലോ മം.ഇറ്റുക്ക് 508 ഫ്ലോലാലോ 202248,802000000000000000000000000000000

	ലൈസൻസി താഴെ പറയുന്ന വ്യവസ്ഥകൾ അനുസരിക്കേണ്ടതാകുന്നു
	കേരള പഞ്ചായത്ത് രാജ് ആക്ടും അതേ തുടർന്നുള്ള ചട്ടങ്ങളും ബൈലകളും അനുസരിച്ച് പ്രവർത്തി ഞ്ഞൊകുന്നു.
2. (തൊഴിൽ സ്ഥലവും അതിലുള്ള സാധന സാദ്ധേഹികളും പഞ്ചായത്തധികാരി കൾക്കോ /സെക്രട്ടറി ധികാരപ്പെടുത്തുന്ന മറ്റ് ഉദ്യോഗസ്ഥർക്കോ പരിശോധിക്കുന്നതിന് ലൈസൻസി വേണ്ട സൗകര്യം കേണ്ടതും അവർ ആവശ്യപ്പെട്ടാൽ ഈ ലൈസൻസ് കാണിക്കേണ്ടതുമാകുന്നു.
3. n (363)	ളത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ ലൈസൻസ് നൽകിയിരിക്കുന്നുമോ ആ സ്ഥലത്ത് എല്ലാവരും കാണ ഒര വിധത്തിലുള്ള ഒരു ഭാഗത്ത് ലൈസൻസി തന്റെ പേരും , ലൈസൻസിന്റെ നസരും ഉദ്യേശവും ണിക്കുന്ന ഒരു അടയാളപ്പലക വച്ചിരിക്കേണ്ടയാണ്.
4. n 600	ഞ്ഞായത്തിൽ നിന്നും അനുവാദം ലഭിച്ച. ശേഷമല്ലാതെ തൊഴിൽ സ്ഥലം മാറ്റാൻ പാടില്ലാത്തതും ാഴിൽ നിർത്തുന്ന പക്ഷം വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
5. 0 010 1000	താഴിൽ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയായി സാംക്രമിക രോഗാണുക്കൾ ഉണ്ടാകാത്ത വിധത്തിലും തുജനോപശവമാകാത്ത വിധത്തിലും വ്യാപാരത്തിന് വച്ചിട്ടുള്ള ഭക്ഷണ പരാർത്ഥ - ങ്ങൾ ഈദ്യ. നുക്കൾ , പൊടി മൃതലായവയുടെ ശല്യം ഉണ്ടാകാത്ത വിധത്തിലും സുക്ഷിക്കണ്ടതാണ്
6.00	രോ പ്രവർത്തി ദിവസത്തിന്റെയും ഒടുവിൽ സ്ഥലം വ്യത്തിയാക്കേണ്ടയാണ്
7. (B) (0.a.)(3	3 സ്ഥലത്തിന്റെയോ പരിസമത്തിന്റെയോ ഏതെങ്കിലും ഭാഗത്ത് വീഴുകയോ നിക്ഷേപിക്കപ്പെടുകയോ ഉന്ന ചപ്പ് ചവറോ , ഭൃഗങ്ങളുടെ അവശിഷ്ടങ്ങളോ മറ്റ് പദാർത്ഥരമാ ശേഖരിച്ച് , സെക്രട്ടറിക്ക് തികരഭായ രീതിയൽ നിക്കം ചെയ്യിക്കേണ്ടതാണ്.
(330)	ലസൻസി ഏതൊരു കെട്ടിടത്തിന്റെയും ചുവരുകളുടെ അകവശത്തിന്റെ എതൊരു ഭാഗവും പറഞ്ഞ പരിസരത്തിലുള്ള തറയും നടപ്പാതയും അവിടെ തെരിച്ച് വീഴാനിടയുള്ള ഏതെങ്കിലും കമോ , മാലിനൃദോ , ചപ്പുച്ചവറോ , അസഹൂവും , ഉപദേവകരവരായ എതെങ്കിലും പാാർത്ഥരോ ടെ ലയിക്കുന്നത് തടയത്ത് ക്ക് വിധം എവ്യോഴും നന്നായി കേട്ടപാട് തിരേത് നിലനിർണ്ടെയാണ്.
9. 60	ലസൻസി മേരിപറഞ്ഞ സ്ഥലത്തോ പരിസരത്തോ അതിനോട് ചേർത്തോ ഉള്ള എതൊരു
ຄວດຖ ດາໝັດ	പാലും അഴുക്ക് ജലം കളയുന്നതിനുള്ള ഉപകരണവും എപ്പോഴും നന്നായി കേട്പാട് തിർത്ത് ദക്കേണ്ടതാണ്.
10. 070	യിത്തം ആപരിക്കുന്ന കടകളുടെ ലൈസൻസ് വ്യ് ചെയ്യുന്നതാണ്.
11. 18	തെങ്കിലും തരത്തിലുള്ള തിക്ക് രോഗമോ കുഷ്ഠ രോഗമോ വ്രണമോ പകർച്ച വ്യാധികരളാ ഉള്ള രാരാളും കച്ചവടം നടത്തുന്നതിന് ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുവാൻ - പ്ലാത്തതാകുന്നു.
12, 40 000a.0	മൈക്രോണിൽ കുറവുള്ള പ്പാസ്റ്റിക്കുകളും മറ്റ് നിരോധിത പ്ലാസ്റ്റിക് ഇനങ്ങളും ഉൽപ്പാദിപ്പിക്കുകയോ മക്കുയോ വിൽക്കുകയോ കൈകാര്യം ചെയ്യുകയോ ചെയ്യാൻ പാടില്ല
11. 1721	ാപനത്തിന്റെ ബോർഡിൽ സ്ഥലനാമം മലയാളത്തിലും ഇംഗ്ലീഷിലും രേഖപ്പെടുത്തേണ്ടതാണ്. പില്ല
14. 20 (BBBQ	സിറ്റിൽ കൂടുതലുള്ള എല്ലാ ഹോട്ടലുകൾക്കും റസ്റ്റോറന്റുകൾക്കും ടോയ്ലറ്റ് സൗകര്യം പ്രത്തേണ്ടതാണ
15. നിര വിൽക്	രാധിത ഉൽപ്പന്നങ്ങളായ പാൻമസാല , ഗുൾഖ തുടങ്ങിയവ സംഭരിച്ച് വയ്ക്കുവാനോ ഗുവാനോ പാടില്ല
M. 6710	ലമ്പല അനുവദിക്കാൻ പാടില്ല
	ളിൽ കാണിപ്പിമിക്കുന്ന വ്യവസ്ഥകളുടെ ലാഘനം ഈ ലൈസൻസ് റട്ട് ചെയ്യപ്പെടുന്നതിന് മാ കാവുന്നതാണ്.
18.0000	umanlai para an zoennyanis numo panousinamiai monianicaganasani
	anuasol aneasol aneasol
N.B : പുതുക	നെകൂറ്റ ഈ ലൈസൻസ് അത്താനിക്കുന്ന തീയതിയ്ക്ക് 30 ദിവസം മുമും നെക്കാര് അപോരങ്ങ്ങം മൂന്ന തിനുള്ള അപേര്ഷ സമര്പ്പിക്കേണ്ടതാണ്.

Monitoring Report

GEMS		GLOBAL ENVIRONMENT & MINING SE (Consulting Engineers, Mine designers, Geologist & Su NABL & MOEFCC RECOGNIZED LABORATORY 3 rd Main Road, Basaveswara Badavane, <u>HOSPETE – 583201</u> , Dist, Vijayanagara (Karnataka) Ph :+918394 229433, 295018 e-mail : gems_hpt@yahoo.com, Website : www.globalmining.in	irveyors)
		GEMS-LD/TF/11/01 Date: 19.12.2022	
	Analysis Repo	of Ambient Air Quality Monitoring	
		Granite Building Stone Quarry of Shri. George Kochuparambil Extent: 12.2987Ha	
1	Name of the Customer/Address	 Re-Sy.Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt, Manakkad Village, Thodupuzha Taluk, 	
		Idukki District, Kerala.	
2	Sample Description	: Ambient Air Quality Monitoring	
3	Sample Collected By	: GLOBAL Environment & Mining Services	
4	Particulars of Sample Collected	: Combined Sampler (GTI-241)	
5	Duration of the Monitoring	: 24 Hour of Sampling	
6	Location of Monitoring	: Core zone area (A1)	
11	Report Number	: ULR-TC532322000001273F	

Results

Date of	ΡΜ10 [μg/m ³]	PM2.5 [μg/m ³]	SO ₂ [μg/m ³]	NO ₂ [μg/m ³]
Monitoring	IS : 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS : 5182: (Part 2) 2001 (RF 2014)	IS : 5182: (Part 6) 2006 (RF 2014)
14.12.2022	55.9	21.3	11.5	13.7
Standard	100	60	80	80

INFERENCE

As per CPCB Standards,

Report Status: - Measured Values for the above parameters are within the limit. **End of Report**

Analyzed By 1

J.M. Thippeswamy Chemist

WHENT & M ENVIRON X.Z HOSPE 079 * **Authorized Signatory**

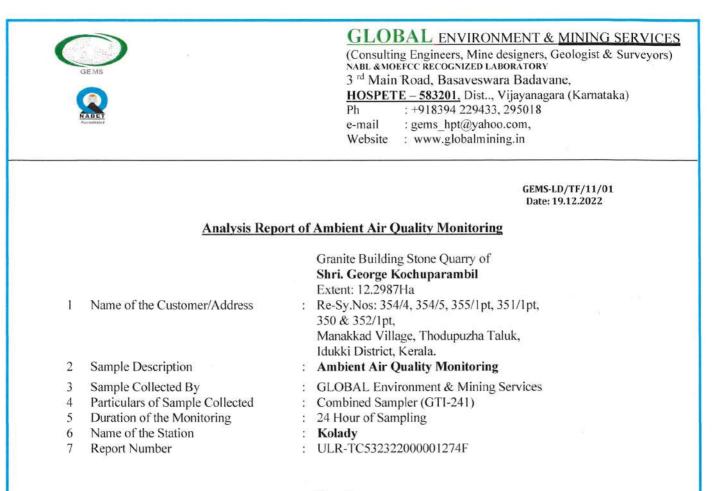
K. Ramakrishna Reddy Technical Manager

Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied. Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise specified. This report is not to be reproduced wholly or in part & cannot be used as evidence in the Court of law & should not use any advertising media without special permission in writing.

Total liability of our laboratory is limited to the Invoice amount. Any dispute arising out of this report is subject to Hosapete jurisdiction only



Results

Date of	PM10	PM2.5	SO ₂	ΝΟ ₂
	[μg/m ³]	[μg/m ³]	[μg/m ³]	[μg/m ³]
Monitoring	IS: 5182: (Part 23)	USEPA	IS: 5182: (Part 2)	IS: 5182: (Part 6)
	2006 (RA 2012)	2001	2001 (RF 2014)	2006 (RF 2014)
15.12.2022	51.7	18.8	9.5	12.9
Standard	100	60	80	80

As per CPCB Standards, INFERENCE ENT Report Status: - Measured Values for the above parameters are within the limit. **End of Report** HOSPE Analysed By Authorized Signatory J.M. Thippeswamy K. Ramakrishna Reddy Chemist Technical Manager

Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory

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(Consulting Engineers, Mine designers, Geologist & Surveyors) NABL & MOEFCC RECOGNIZED LABORATORY 3 rd Main Road, Basaveswara Badavane, HOSPETE - 583201, Dist., Vijayanagara (Karnataka) : +918394 229433, 295018 Ph

: gems hpt@yahoo.com, e-mail

Website : www.globalmining.in

> GEMS-LD/TF/11/01 Date: 19.12.2022

TEST REPORT OF AMBIENT NOISE LEVEL MONITORING

1	Name of the Customer/Address	:	Granite Building Stone Quarry of Shri. George Kochuparambil Extent: 12.2987Ha Re-Sy.Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt,
2	Sample Description	;	Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala. Ambient Noise Level monitoring
3	Sample Collected By	:	GLOBAL Environment & Mining Services
4	Particulars of Sample Collected	:	Noise Level Meter (Equinox-107)

- 5 Duration of the Monitoring
- Date of Analysis Completion 6
- 7 Report No

: 24 Hours Sampling

- : 15.12.2022
- : ULR-TC53232200001275F

Results					
Date	14.12.2022	15.12.2022			
Name of the Location	Core Zone	Kolady			
Time (hrs)	N1	N2			
6.00	38.8	35.3			
7.00	40.2	45.2			
8.00	44.8	45.7			
9.00	50.4	44.8			
10.00	56.6	51.3			
11.00	55.4	51.7			
12.00	51.8	52.5			
13.00	52.6	53.2			
14.00	56.8	50.5			
15.00	51.2	51.6			
16.00	57.8	52.1			
17.00	55.2	50.7			
18.00	54.2	48.5			
19.00	51.6	47.2			
20.00	48.4	44.5			
21.00	46.2	43.8			
22.00	42.2	47.1			
23.00	40.4	45.6			
00.00	38.6	38.3			
01.00	36.8	41.2			
02.00	36.2	40.5			
03.00	34.4	37.3			
04.00	34.4	35.9			
05.00	34.8	42.2			

MINI

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Note:

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	ULR-	TC5323220000012751
L max	57.8	53.2
L min	34.4	34.3
Ld	53.5	49.9
Ln	40.1	41.7
LeQ	51.5	48.3

		Limit in dB(A) Leq		
Area Code	Category of Area	Day Time	Nighttime	
Α	Industrial Area	75	70	
В	Commercial Area	65	55	
С	Residential Area	55	45	
D	Silence Area	50	40	

Day time shall mean from 6:00 am and 10.00 pm Night time shall mean from in between 10.00 pm and 5.00 am Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority Note *dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which relatable to human being A "decibel" is a unit in which noise is measured "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear. Leq: It is energy mean of the noise level over a specified period.

MIA

Authorized Signatory **Technical Manager**

Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory

Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

Note:

- The result listed refers only to the tested samples & applicable parameters. Endorsement of products is neither inferred nor implied. Water Samples will be destroyed after 15Days, Minerals 3 Months, Filter papers & Thimbles 7 Days and ILC samples from the date of issue of Month test certificate unless otherwise specified.

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(Consulting Engineers, Mine designers, Geologist & Surveyors) NABL & MOEFCC RECOGNIZED LABORATORY 3 rd Main Road, Basaveswara Badavane, HOSPETE - 583201, Dist.., Vijayanagara (Karnataka) : +918394 229433, 295018 Ph e-mail : gems_hpt@yahoo.com,

Website : www.globalmining.in

> GEMS-LD/TF/11/01 Date: 19.12.2022

ANALYSIS REPORT OF WATER QUALITY DATA

			Granite Building Stone Quarry of Shri. George Kochuparambil Extent: 12.2987Ha
1	Name of the Customer/Address	:	Re-Sy.Nos: 354/4, 354/5, 355/1pt, 351/1pt, 350 & 352/1pt,
			Manakkad Village, Thodupuzha Taluk, Idukki District, Kerala.
2	Sample Collected By	:	GLOBAL Environment & Mining Services
5	Date of sample collection	:	14.12.2022
6	Date of sample Received	:	16.12.2022
7	Date of sample Analyzed	:	17.12.2022
8	Report Number	-	ULR-TC532322000001276F

SL No.	Parameters	arameters Unit Result Test Protocol	Test Protocol	Requirement/Limit IS : 10500 : 2012		
110.					Acceptable	Permissible
1.	рН	-	6.85	APHA 22 nd Edition 2012 4500 B (Pg No. 4-92 to 4-96)	6.5	8.5
2.	Colour*	Hazen	<5	IS: 3025 (PART 14)- 1984, RA- 2012 Platinum cobalt Method	5	15
3.	Taste*	-	Ag	IS 3025 Part 8 1984	Ag	Ag
4.	Odour*		Ag	IS: 3025 (Part 5) - 1983, Ra-2012, True Odour	Ag	Ag
5.	Turbidity	NTU	0.21	APHA 22 nd Edition 2012 2130 B (Pg No. 2-14)	1	5
6.	Conductivity	µS/cm	143	APHA 22 nd Edition 2012 2510 B (Pg No. 2-54)		(*)
7.	Total Dissolved Solids	mg/L	112	APHA 22 nd Edition 2012 2540 B (Pg No. 2-65)	500	2000
8.	Total Alkalinity as CaCO3	mg/L	89	APHA 22 nd Edition 2320 B (Pg No. 2-35)	200	600
9.	Total Hardness as CaCO3	mg/L	158	APHA 22 nd Edition 2012 2340 C (Pg No. 2-46)	200	600
10.	Calcium as Ca	mg/L	22	APHA 22 nd Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11.	Magnesium as Mg	mg/L	6.1	APHA 22 nd Edition 2012 3500 B-Mg By Calculation	30	100
12.	Chloride as Cl	mg/L	15.0	APHA 22 nd Edition 2012 4500 Cl (Pg No. 4-72)	250	1000
13.	Sulphate as SO4	mg/L	90	APHA 22 nd Edition 2012 4500 SO42 – E (Pg No. 4-190)	200	400
14.	Nitrates as NO3	mg/L	10	APHA 23 nd Edition - 4500 NO ₃ , - E (Pg No, 4-131 to 4-132)	45	NR
14.	Nitrate Nitrogen as NO3	mg/L	14	APHA 22 rd Edition 2012 4500 NO3 E (Pg No. 4-125 to 4-127)	45	No relaxation

5 NJ 7480

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HOSPETE - 583201, Dist., Vijayanagara (Karnataka)

: +918394 229433, 295018

: gems hpt@yahoo.com, e-mail

Website : www.globalmining.in

						ULR-TC532322000001276
15.	Fluoride as F	mg/L	0.77	APHA 23 ^{od} Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1,0	1.5
16.	Iron as Fe	mg/L	0.42	APHA 23 nd Edition – 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
17.	Sodium as Na	mg/L	9,74	APHA 23 nd Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)		-
18.	Potassium as K	mg/L	0,69	APHA 23 rd Edition 3500 K B (Pg No. 3-89 to 3-90)		12
19.	BOD 3 days at 27° C	mg/L	NIL	IS:3025 (P.44) – 1993 , RA-2014,		
20.	COD as O2	mg/L	NIL	APHA 23 nd Edition 5220 C (Pg No. 5-18 to 5-19)	843)	-
21	Oil & Grease	mg/L	NIL	APHA 23 nd Edition 5520 B (Pg No.5-41 to 5-42)	0.5	NR
22.	Cadmium as Cd*	mg/L	< 0.001	APHA 23 RD Edition-3111 –B (Pg No.3-20 to 3-21)	0.003	NR
23.	Copper as Cu	mg/L	<0.001	APHA-23 RD Edition 3111-B (Pg No.3-20 to 3-21)	0.02	1.5
24.	Nickel as Ni	mg/L	< 0.001	APHA-23 RD Edition-3111 –B (Pg No. 3-20 to 3-21)	0.02	NR
25	Zinc as Zn	mg/L	<0.1	APHA-23 RD Edition-3111-B (Pg No. 3-20 to 3-21)	5	15
26.	Salinity*	PPT	NIL	APHA-23 RD Edition-3111-B (Pg No. 3-20 to 3-21)	-	22
27.	Total Phosphorous	mg/L.	< 0.01	APHA-23 RD Edition 4500-D (Pg No. 4-154)		977.X
28.	Total Coliforms*	MPN/ 100ml	Ab	APHA 22 nd Edition 9222 B (Pg No.9-78)		(A)
29.	Feacal Coliforms	MPN/ 100ml	Ab	APHA 22 nd Edition 9222 D (Pg No.9-85)	1	
30	Phyto Plankton*	Unit/L	Ab	APHA 23 nd Edition 10200 F (Pg No.10-17)	-	12

Ph

Note: BDL Below Detectable Limit

Ag: Agreeable NR: No Relaxation

RA: reaffirmed

Ab: Absent

Location: Kolady

End of report

Analyzed By Chemist



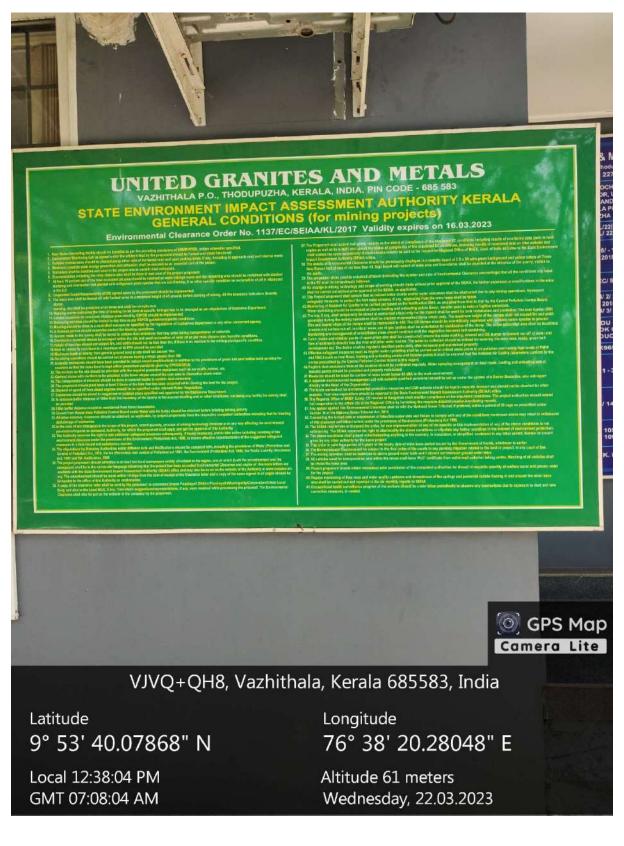
F.R

Authorized Signatory Technical Manager

Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory Recognized by Government of Karnataka, Maharashtra, Goa for DGPS survey

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DETAILS OF EC

		новин планталор				
Quet	ate of quote issued or policy start date which ever be e is valid for the given set of data, any change in data	e earlier. Quote is flable to change with change in information. a will require revised premium.				
Quote No.		30110065				
Channel Type		Banca				
Expiring Insurer Date of Quote Issue	Niva Bupa Health Insura	ance Co. Ltd (Formerly known as Max Bupa Health Insurance Company Limited)				
Quote Type		27-0:d-22 Bound				
Name of Policyholder		United Granites & Metals				
Industry Type		0				
Cover Type (Individual/Roeter)		individual				
Policy Period – Start Date		23-0 d-22				
Policy Period – End Date		22-0 d-23				
Policy Type (Fresh/Market Rollover/Own Renewal)		Own Renewal				
Premium Details						
Premium excluding Tax	GST	Total Premium				
4,49,640	80,935	5.30.575				
Expiring Policy Snapshot Claims Report Date	1)	Total Claims (Paid + O/S)				
10-Oct-22		56.632				
	e demography details as pasted below. If there is ony the	ange in the claims or the demography details, the quote is subject to change."				
S.N. Basic Details		Particulars				
1 FamilyStructure		Employee Only				
2 Total no of employees/Primary Members	1	134				
3 Total no of Insured Members	134					
4 Health Card	Health Card					
5 Claim Servicing		In House				
Benefit Structure						
Inpatient Care – Sum Insured	INR 2 Lakhs					
Listed Day Care Treatment		Covered upto Sum Insured				
	ICU	Normal 1%				
Hespital Accommodation – Room rent/day 8. ICU/day	If the insured Person is admitted in th eligibility as specified above, then Niv	2% e Hospital in a room category or in a room where the Room Rent is higher than the o Rups shall be fable to pay only a pro-rated proportion of the total Associated Medical is thereon in the proportion of the difference between the Room Rent actually incurred de Room Rent.				
Pre Hospitalization Medical Expenses	Covered upto Sum Insured for 30 days					
Post Hospitalization Medical Expenses	Covered upto Sum Insured for 60 days					
Emergency Ambulance	INR 2000 per hospitalization					
	Normal	Not Covered				
	C-Section	Not Covered				
Maternity Expenses	Policyholden 2. The MaternityBenefit may be claim	bile for Employees or Spouse only if both are covered in Insured members data received from ed under the Policy in respect of eligible Insured Person(s) only twice during the lifetime of after for the delivery of a child or Medically Necessary Treatment and lawful termination of inders or terminations.				
Pre & Post Natal Expenses	Not Covered					
Corporate Floater		Not Covered				
Corporate Floater Limit		NA				
Corporate Floater utilization/family		NA				
List of Critica I liness	NA					
OPD Coverage		Not Covered				
Co-payment	NA					
Disease wise capping	NA					
Per Gibler Distant (200)	Waiting Periods	Walved 0#				
Pre-Existing Disease (PED) 2 yr exclusions (Disease Specific Exclusions)		Waived Off				
Initial Waiting Period		Waived Off				
Special Conditions : 1. Cleim for lask treatment : if power of eye is above +/. 7.5, is pay 2. 50% co-pay For cyberknife treatment/Robotic Surgery/Bio-aboo		aver Proxeste.				

Health Insurance of Employees

internal

	Terms & Conditions
Group to Retail portability clause	Continuity benefit will be provided as per retail medical underwriter.
Claim indimation and Document submission clause	For Reindursement – Claim indimation should be given to Mike Buga wirklin 48 hours of administon or before disbarge from hospital. Documents needs to be submitted within 30 days from date of discharge from hospital. For Cashiess – incase or cashiess hospitalization, claim indimation should be given within 24 hours of admission or before discharge from hospital.
Addition/Deletion Endorsement clouse	 - Midterm addition is allowed only in case of netural addition (i.e. new born baby, Newly wedded spous failing during the Policy period. - In case of defetion, there will be no refund for members who have claimed. - In case of defetion, if inframation will be provided later than the DOL and any daim has been taken by the member in that period. Receiver of the taking around need to be made from the corporate - The insured must inform of new additions or deletions to the company within a rescaneb time but not later to an 45 days from the date of the joining of the employee or apparation of an employee from the organization. - Add time to be done on prorate bad's effective from date of joining subject to balance being available 1 CD account.
Other Standard Conditions	 – SN: copay applicable for observability testment/Robotic/Surgery (Foxed) – No Individual(employee of dependent) can be covered more than once in a policy. – No Individual(employee of dependent) can be covered more than once in a policy. – No Individual Cannot be covered as an employee and dependent under the same policy, or may childre or parametry will be covered by hopping will not be applicable. – Individuals cannot be covered as an employee and dependent under the same policy. – Following charges (very) whopping will not be payable under the policy. – Following charges (very) whopping will not be payable under the policy. – Following charges (very) whopping will not be payable under the policy. – Following charges (very) whopping will not be payable under the policy. – Following a class whilm a group from coverage is not permitted – Individual control to cover the policy. – Exituding a class whilm a group from coverage is not permitted – Individual coverage to the permitted – Individual coverage is not provide coverage is not permitted. – Individual coverage is not provide coverage is not permitted. – Individual coverage is not provide coverage is not permitted. – Individual coverage is not provide coverage is not permitted. – Individual coverage is not provide coverage. – Any type of contrace ption, secilitation, abortions, voluntary termination of pregnancy or family painting is excluded from the Policy. – Infertifity performs inducing artificial insemination and advanced reproductive technologies such as fM 2IFT, GIFT, ICS, gestrational aburgacy are encluded under the Policy. – Orrestame of any securities burgers, pain because of the cause) and sex changes or gender reassignmemits or reactible dythinction are as excludeed under the Pol

11 9 5	17 10 17 11 9 5	23 17	24	12	0	0	2.00.000
11 9 5	17 10 17 11 9 5	23 17	24	12	0	0	2.00.000

				Per Person	n premium Ra	ater (Excludin	g G51)					
Sum Insured/ Age band	0-2	3-17	18-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	65+
2,00,000	1,007.73	1,007.73	1,681.30	1,790.74	1,943.92	2,245 23	2,749.68	3,527.05	4,472.96	6,677.37	8,957.59	10,344.00

Internal

DATE	NAME	PURPOSE	AMOUNT
8/10/2022	MARY THOMAS	MEDICAL HELP (6monts x 3000)	18000
10/10/2022	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	42500
10/10/2022	KANIV	PALIYETIVE CARE	51000
20/10/2022	ALEENA MARY JOY	EDUCATIONAL HELP	5000
03/11/2022	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	6210
03/11/2022	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	45500
08/11/2022	KANIV	PALIYETIVE CARE	51000
08/11/2022	ALPHIA IBRAHIM	EDUCATION HELP	22000
30/11/2022	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	45500
03/12/2022	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	5460
08/12/2022	KANIV	PALIYETIVE CARE	51000
13/12/2022	ROAD SAFETY GLASS	VAZHITHALA	3700
13/12/2022	VIVA ARTS & SPORTS CLUB	INDOOR STADIUM	10000
27/12/2022	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	37500
07/01/2023	DESASTER RISK MANAGEMENT FUND	5 th DRVC 2023	100000
07/01/2023	KANIV	PALIYETIVE CARE	50000
13/01/2023	MAMACHAN MATHEW NEDUMPURATH	MEDICAL HELP	5000
06/02/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	5830
18/02/2023	KANIV	PALIYETIVE CARE	51000
02/03/2023	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	43500
08/03/2023	JOSEPH CHERIAN	MEDICAL HELP	25000
18/03/2023	KANIV	PALIYETIVE CARE	50000
01/02/2023	BRAJEETHA MATHAI KOLLAMPARAYIL	HOUSE CONSTRUCTION	1002648
08/03/2023	ST SEBASTIAN'S H.S. MEMADANGU	MATERIAL FOR SMART CLASS ROOM CONSTRUCTION	8820
15/03/2023	ABHIN MOHAN	MEDICAL HELP	10000
29/03/2023	DARLY JOSE KOONANANICKAL	MATERIAL SUPPLY	77377
		TOTAL	1823545

CSR EXPENDITURES & RECEIPTS

JOEMON JOSEPH (JOEKUTTAN) CHARITABLE TRUST PURAPUZHA KANIV Beneficiary List for Account transfer March 2023

SI.No.	A/c Holder	A/c No	Bank	Branch	IFSC	Amount
MA 2	MA 2 Aleykutty Issac	67202104800	67202104800 State Bank of India Vazhithala	Vazhithala	SBIN0070962	1000
MA 6	MA 6 Ammini Appu	338002010014446	338002010014446 Union Bank of India Thodupuzha	Thodupuzha	UBIN0533807	1000
MA 12	MA 12 Augusthy Ulahannan	67202618748	67202618748 State Bank of India Vazhithala	Vazhithala	SBIN0070962	1000
MA 14	MA 14 Baiju A K	33254532282	33254532282 State Bank of India Nediyasala	Nediyasala	SBIN0006457	1000
MA 16	MA 16 Jagadamma	338002010021202	338002010021202 Union Bank of Indig Thodupuzha	Thodupuzha	UBIN0533807	1000
MA 18	MA 18 Gauriamma Kunjikuttan	40328101066623	40328101066623 Kerala Gramin Bank Thodupuzha	Thodupuzha	KLGB0040328	1000
MA 23	MA 23 Kumari Sreekumar	4355001702005679	4355001702005679 Punjab National Bar Thodupuzha	Thodupuzha	PUNB0435500	1000
MA 25	MA 25 Madhavi	33041198645	33041198645 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
MA 26	MA 26 Parukutty K O	0722108030732 Canara Bank	Canara Bank	Thodupuzha	CNRB0000722	1000
MA 27	MA 27 Mathira	33069636011	33069636011 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
MA 30	MA 30 Mathai Pathrose	67323931639	67323931639 State Bank of India Vazhithala	Vazhithala	SBIN0070962	1000
MA 31	MA 31 Mercy	11210100258690 Federal Bank	Federal Bank	Thodupuzha	FDRL0001121	2000
MA 32	MA 32 Kutty Balan	67225858081	67225858081 State Bank of India Vazhithala	Vazhithala	SBIN0070962	1000
MA 37	MA 37 Sali Louis	30188238651	30188238651 State Bank of India Nediyasala	Nediyasala	SBIN0006457	1000
MA 39	MA 39 Sarojini Sukumaran	32865143845	32865143845 State Bank of India Nediyasala	Nediyasala	SBIN0006457	1000
MA 40	MA 40 Sheela D	0806053000000324	0806053000000324 South Indian Bank Thodupuzha	Thodupuzha	SBIL0000806	1000
MA 41	MA 41 Shibu Thomas	32668155787	32668155787 State Bank of India Nediyasala	Nediyasala	SBIN0006457	1000
MA 42	MA 42 Syjan Thomas	33055429907	33055429907 State Bank of India Nediyasala	Nediyasala	SBIN 0006457	1000
MA 43	MA 43 Thankamma Ayyappan	33452841784	33452841784 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
MA 45	MA 45 Annies Sebastian	30322013976	30322013976 State Bank of India Nediyasala	Nediyasala	SBIN0006457	1000
MA 46	MA 46 Aravindakshan Nair	33438304010	33438304010 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000

Manakkadu Grama Panchayat

CER DETAILS

の日本の日本の	67203548926	67203548926 State Bank of India Vazhithala	Varhithala	SRINDAD067	1000
MA 48 Chinna Balan	0722119000098 Canara Bank	Canara Bank	Thodupuzha	CNRB0000722	1000
And a state	10550100089533 Federal Bank	Federal Bank	Vazhithala	FDRL0001055	1000
MA 55 Valsala Kunjappan	32951554314	32951554314 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
States and a state of the	10550100122995	10550100122995 Federal Bank Ltd	Vazhithala	FDRL 0001055	1000
ENCLOSE OFFICE	32987339555	32987339555 State Bank of India	Thodupuzha	SBIN 0008674	1000
	20302987028	20302987028 State Bank of India Nediasala	Nediasala	SBIN0006457	1000
	33024669458	33024669458 State Bank of India Thodupuzha	Thodupuzha	SIBN0008674	1000
MA 64 Joseph Mathai	120321200421432	120321200421432 Idukki Dist. Co Ban Thodupuzha	Thodupuzha	IDUK0000032	1000
PB	20176937929	20176937929 State Bank of India Thodupuzha	Thodupuzha	SBIN 0008674	1000
MA 69 Thresssia Paulose	32984323559	32984323559 State Bank of India	Nediasala	SBIN0006457	1000
MA 71 Ammini Ayyappan	32954131340	32954131340 State Bank of India Thodupuzha	Thodupuzha	SBIN00068674	1000
MA 72 Subhashini Divakaran		39683230052 State Bank of India Vazhithala	Vazhithala	SBIN0070962	1000
MA 73 Thankamani Prabhakaran		67226875505 State Bank of India Vazhithala	Vazhithala	SBIN 0070962	1000
Pathrose	67201841483	67201841483 State Bank of India Vazhithala	Vazhithala	SBIN 0070962	1000
hny	67206434799	67206434799 State Bank of India	Peruva	SBIN 0070869	1000
	20395607378	20395607378 State Bank of India Nediasala	Nediasala	SBIN0006457	1000
1a Gopalan	32664273964	32664273964 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
MA 79 Sreeja Sajeevan	67354156196	67354156196 State Bank of India	Thodupuzha Tow SBIN0070155	SBIN0070155	1000
	121710100045772	121710100045772 Union Bank of India Thodupuzha	Thodupuzha	UBIN0812170	1000
	32993597881	32993597881 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
	67242878415	67242878415 State Bank of India	Thodupuzha Tow SBIN0070155	SBIN0070155	1000
Krishnan	40328101056538	40328101056538 Kerala Gramin Bank Thodupuzha	Thodupuzha	KLGB0040328	1000
Nair	37946219275	37946219275 State Bank of India	Nediyasala	SBIN0006457	1000
achan	120111200421136	Idukki Dist. Co Bank Thodupuzha	Thodupuzha	UTIB0SIDB99	1000
	20370100005068	Federal Bank	Thodupuzha	FDRL0002037	1000
MA 89 Marivam Augusthy	67207375316	67202375316 State Bank of India Wazhithala	Washishala	01000001000	0001

MA 90	Indira	20176945205 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
MA 91	Narayanan Nair	20263068754 State Bank of India Thodupuzha	Thodupuzha	SBIN0008674	1000
			Total		51000

•

FEDERAL BANK

Name	:	UNITED GRANITES AND METALS	Branch Name	1	Vazhithala
Communication Address	1	Vazhithala P O Thodupuzha Vazhithala Kerala 685583 India	Branch Sol Id	ä	1055
			Account Number	:	14100200006064
Address Last Updated On	÷	26/09/2016	Customer Id	:	16933700
Regd. Mobile Number	8	919995878898	Account Open Date	**	28/11/2006
Email Id	:	unitedgranitesandmetals@g	Account Status	18	Active
Type of Account	2	Current	Mode of Operation	:	Single
Scheme	•	FREEDOM CURRENT	Joint Holders	:	GEORGE KOCHUPARAMBIL
IFSC	5	FDRL0001055			
MICR Code	:	685049810			
SWIFT Code	×	FDRLINBBIBD	Nomination	1.1	Not Registered
Effective Available Balance	e :	4375804.4	Currency	:	INR
Opening Balance	5	9,98,129.28	Date of Issue	\$	11/04/2023

Statement of Account for the period 18-MAR-2023 to 18-MAR-2023

Date	Value Date	Particulars	Tran Type	Tran ID	Cheque Details	Withdrawals	Deposits	Balance	Dr/Cr
18-03-2023	18-03-2023	UPI IN/307734992377/I uckachanmathew5 0@okhdfc/5051	TFR	S82150286			7,000.00	10,05,129.28	CR
18-03-2023	18-03-2023	EBIZ A2A C79918032308075 1 WAGE	TFR	FB239		2,51,405.00		7.53,724.28	CR
18-03-2023	18-03-2023	EBIZ A2A C74216032312283 4 CSR	TFR	FB240		5,000.00		7,48,724.28	CR
18-03-2023	18-03-2023	EBIZ NEFT C74216032312283 4 CSR	TFR	FB241		46,000.00		7,02,724.28	CR
18-03-2023	18-03-2023	NFT/BT230316388 52534/Leela Kuriyachan/141002 000060	TFR	S82402819			1,000.00	7,03,724.28	CR
18-03-2023	18-03-2023	UPI IN/307736393047/ bobinbaiju@okhdfe bank/UP/5051	TFR	S82959588			1 ,890 .00	7,05,614.28	CR
18-03-2023	18-03-2023	UPI IN/307799722659/ nojjosepalakkattu@ okaxis/5051	TFR	\$83396053			4,000.00	7,09,614,28	CR

Page 1 of 3

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

30/3/23 1 an ip Prof. (Dr.) K.R.BAJJU Director, School of Environmental Sciences Deav, Faculy of Environmental & Atmospherk Sciences Mahatma Gandhi University Pridarshini Hills, Kottayam 666564 Received Rs. 400,000/- (Rupees. Che. Jakh Convener, DRVC 2023 5TH INTERNATIONAL DISASTER RISK AND VULNERABILITY CONFERENCE the .. Canducking of DRNG less part of ... CSR. Sichief) i (January 19-21, 2023 (DRVC 2023) RECEIPT (2023 28-3-23

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View Tanxaction Octals Account Number: 24(0)2000/064 Value Date: 074(1)2025 Entry Date: 074(1)2025 Arcount Syste Arcount Date: Dit 10(0)2000	THE ONE STOP SOLUTION TO ALL YOUR BRANKING NEEDS.
	COME SAY HELLO TO FEDDY, YOUR PERFECT BANKING BUDDY
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ST. SEBASTIAN'S U IFMANANGI MEMADANGU P.O., MUVATTUPUZHA Pin: 686 672, Ph: 04862 278470 No. Date. 2-3-2023 From The Headmaster Anish. G. Kochuparambil To Sub : Ref. : mayors School-no GBB Smart Class-ond Sir. മാനമ് ഇണ്ടായിന്നുന്നു. മെത് പിമിഹിക്കുന്നായിരുത്ത ചാണികൾ ന്നെസ്റ്റിച്ചു. സാമ്പത്തികമായും സാമുഹികമായും Non Semians nondan asmosonserim es nous weamline annum . annueso mon 2 സിപ്പിച്ചുക്കൊഴ്ഞേസ്ത് വളരെ അവ്വാമത്ത man and ansal resione our conso andar indacon andaran 2 sono legron rolmon crossel mon de 50+50 mos B roman) erminen anomon. ല്പണമെന്നാണ് Quant Sponser enter parte month Ano Quantal 21 2 mond malon balacon . monto lo concerte DBrondenson Bros merrer () month and month yours Southfully aningose MINI P. JOSE Headmistress St. Sebastian's High School 8100 Memadangu - 686 672 140

UNITED GRANITES AND METALS

VAZHITHALA P.O 685583, THODUPUZHA, PH: 8281885888

STIN: 32AFJPK9650E1ZH

Application for Electronic Referance Number of an Invoice

Invoice No : BU /14546 Invoice Date : 08/03/2023 Place of Supply : MEMADANGU

Vehicle : KL44A8775

	Details		Details of consignee (Shipped to)									
Name and Address ST SEBASTIAN H S MEMADANGU						Name and Address GSTIN						
SI. No.	Description Good	Qty	Rate	Total Amount	Discount	Taxable Value	CGST		SGST		IGST	
1 2	and HSN Code P SAND 25171010	140	60	8400.00	0	8400.00	Rate 0.00	Amt 210.00	Rate 2.50	Amt 210.00	Rate 0.00	Amt 0.00
	Total					8400.00	2'	10.00	2	10.00	c	0.00
	Value (In words) Value (In Figure	Rupee 8820.4	1999 - C.	Fhousand Eight F	lundred Two	I enty Only	I				k	
Bank D	11100/019											
Bank Acc No		al Bank, 5000043		la ·								

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E&OE

IFSC

Authorised Signatory