

# ENVIRONMENT CLEARANCE COMPLIANCE REPORT

April 2023- September 2023

*for*

***GRANITE BUILDING STONE QUARRY  
(Minor Mineral)***

**Extent: 12.2987 Ha. (30.3907 Acres)**

<b>Sy No.</b>	<b>354/4,354/5,355/1pt, 351/1pt,350,352/1pt</b>
<b>Village</b>	<b>Manakkad</b>
<b>Taluk</b>	<b>Thodupuzha</b>
<b>District</b>	<b>Idukki</b>
<b>State</b>	<b>Kerala</b>

**‘Granite building Stone Quarry of  
of Shri. George Kochuparambil’**

**EC No : 1137/EC/SEIAA/KL/2017, Dated : 17/03/2018**

**EC Revalidated on 02/03/2023**

**Date:31-10-2023****To,****The Deputy Director General of Forests (C)**  
MoEF, Regional office, Koramangala, Bangalore.  
Kendriya Sadan, 4th Floor, E&F. Wings, 17th Main Road,  
Koramangala, 2<sup>ND</sup> Block, Bangalore - 560034**Sub:Environmental Clearance Compliance Report for the period  
April 2023-September 2023 pertaining to Granite Building Stone Quarry  
of Shri. 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 serial 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 April 2023 to September 2023 of the EC Granted to 'Granite Building Stone Quarry of Shri. George Kochuparambil by 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 Shri. George Kochuparambil**  
**Mr. George Kochuparambil**  
(Managing Director)

Encl: as above

Cc: **The Member Secretary****State Environment Impact Assessment Authority (SEIAA)**

Directorate of Environment &amp; 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.

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**Description of the project**

File No.	1137/EC/SEIAA/KL/2017
Name of the project	GRANITE BUILDING STONE QUARRY (Minor Mineral) of Shri. 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: - <a href="mailto:unitedgranitesandmetals@gmail.com">unitedgranitesandmetals@gmail.com</a> Website: - <a href="http://www.unitedgranitesandmetals.in">www.unitedgranitesandmetals.in</a>

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

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3	The impact of vibration due to blasting on the nearest houses and other built structures should be monitored in terms of Peak Particle Velocity and amplitude for a maximum charge per delay and included in the Half Yearly Compliance Report.	Study of blast vibration is being done. Monitoring is done near the nearest house also. Report is attached as <b>Annexure-03</b>
4	NONEL short delay detonator may be used for initiation.	Nonel initiation system is only used in blasting.
5	Blasts should be conducted by a blasters or mining mate certificate holder	Blasting is done by person having statutory certificate issued by DGMS.
6	To restrict fly rock within 10m, muffling arrangements should be made.	Blasting mats are used to restrict fly rocks up to 10m. Photograph is attached as <b>Annexure-04.</b>
7	In wake of occurrence of large-scale landslides in the state, as per the 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.	Initiation by NONEL is only used for blasting.
8	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	Blasting mats are used. Photograph is attached as <b>Annexure- 4.</b>
9	The violation of EC condition may lead to cancellation of EC and action under	Agreed.

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	The Environment (Protection) Act, 1986.	
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**Part B – General Conditions**

Sl. No.	Condition	Status of Compliance
<b>1</b>	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 <b>Annexure- 5</b>
<b>2</b>	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 <b>Annexure- 6</b> . Minutes of 23 <sup>rd</sup> meeting held on 07.06.2023, and 24 <sup>th</sup> meeting held on 08.08.2023 are attached.
<b>3</b>	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 <b>Annexure- 7</b> .
<b>4</b>	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 <b>Annexure- 8</b> .
<b>5</b>	Sprinklers shall be installed and used in the Project Site to contain dust emissions.	Sprinklers & Water Tankers are used in project site to control dust emission. Photos are attached as <b>Annexure-9</b> .
<b>6</b>	Eco-restoration, including the Mine Closure Plan shall be done at the own cost	Plantation of various saplings within the project area has been initiated. The mine

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	of the Project Proponent.	closure plan will be prepared as agreed by the project proponent. Photos are attached as <b>Annexure- 10</b> .
7	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.	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.
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 Infrastructure Development, Education, Health-care, etc. The details of CSR provided in the period is mentioned in the below table. Attached as <b>Annexure- 23</b>
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 are attached as <b>Annexure-11</b> .
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 <b>Annexure- 12</b> .
11	Control measures on noise and vibrations prescribed by KSPCB should be implemented.	➤ Noise and vibration control measures is implemented by adapting controlled blasting.



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		<ul style="list-style-type: none"> <li>➤ Use of sharp drilling bits, delivery of compressed air at optimal pressure, Proper maintenance of compressor, drilling machine, jackhammers and tipper trucks.</li> <li>➤ Regular monitoring of noise levels is being done within the core zone and the buffer zone of the mining lease area.</li> </ul>
<b>12</b>	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 <b>Annexure- 13.</b>
<b>13</b>	Blasting should be done in a controlled manner as specified by the regulations of the Explosives department or any other concerned agency.	Controlled blasting is done with Nonel initiation. Muffling is done to control fly rocks.
<b>14</b>	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
<b>15</b>	Access roads to the quarry shall be tarred to contain 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 <b>Annexure- 7.</b>
<b>16</b>	Overburden materials should be managed within the site and used for reclamation of Mine Pit as per Mine closure Plan/specific conditions	Overburden material is stacked very close to the site for future use of reclamation and green belt afforestation.
<b>17</b>	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 in a safe way.
<b>18</b>	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

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		done with Nonel initiation system only. Controlled blasting keeps the vibration below 10ppv. Photographs are attached as <b>Annexure-04.</b>
<b>19</b>	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.
<b>20</b>	No mining operation should be carried out at place having a slope greater than 45 <sup>0</sup>	No mining operation will be carried out at place having a slope greater than 45 <sup>0</sup>
<b>21</b>	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.
<b>22</b>	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).
<b>23</b>	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 <b>Annexure-2.</b>
<b>24</b>	The transportation of minerals should be done in covered trucks to contain dust emissions.	All trucks transporting material are covered by firmly tied tarpaulin.
<b>25</b>	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 <b>Annexure-21.</b>
<b>26</b>	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.
<b>27</b>	Explosives should be stored in magazines in isolated place specified and approved by the Explosive Department.	Explosives are stored in a Licensed Explosives Magazine. Copy of Explosive license is attached as <b>Annexure-14..</b>

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<b>28</b>	A minimum buffer distance of 100 M from the boundary of the quarry to the nearest dwelling unit or other structures, not being any facility for mining shall be provided.	No dwellings are situated within 100 M from the boundary of the quarry.
<b>29</b>	100 M buffer distance should be maintained from forest boundaries	Mining area is not located near any forest areas.
<b>30</b>	Consent from Kerala State Pollution Control Board under Water and Air Act(s) should be obtained before initiating mining activity.	Consent from KSPCB under Air and Water Act(s) is obtained. Copy of the consent is attached as <b>Annexure-15</b> .
<b>31</b>	All other statutory clearances should be obtained, as applicable, by project proponents from the respective competitive authorities including that for blasting and storage of explosives.	All required statutory clearances are obtained.
<b>32</b>	In the case of any change(s) in the scope of the Project, extent, quantity, process of 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.	There is no change in the scope of the project.
<b>33</b>	The Authority reserves the right to add 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.	Agreed
<b>34</b>	The stipulations by the Statutory Authorities under different Acts and Notifications should be complied with including the provisions of the Water	Agreed

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	(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	
<b>35</b>	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.  <b>1. Kerala Kaumady – Malayalam – 12/04/2018</b> <b>2. The Hindu Daily – English – 12/04/2018</b>  Copies of advertisements published in the newspapers are attached as <b>Annexure- 17</b>
<b>36</b>	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 <b>Annexure-16.</b>
<b>37</b>	The proponent shall submit half yearly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of	Half yearly compliance reports are submitted as stipulated to State Environmental Impact Assessment Authority and the Regional Office of MoEF&CC, Bangalore.

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	compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the respective regional office of the MOEF, Govt. of India and also to the State Environment Impact Assessment Authority (SEIAA) office	The monitored data of Air, Noise and Water is attached as <b>Annexure-20</b> .
<b>38</b>	The details of Environment Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times 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	Details of Environmental Clearances is prominently displayed at the entrance to the Mine. Photograph is attached as <b>Annexure- 18</b>
<b>39</b>	The proponent should provide notarized affidavit (indicating the number and date of Environmental Clearance proceedings) that all the conditions stipulated in the EC shall be scrupulously followed.	Notarized affidavit is submitted.
<b>40</b>	No change in mining technology and scope of working should be made without prior approval of the SEIAA. No further expansion or modifications in the mine shall be carried out without prior approval of the SEIAA, as applicable.	Prior approval from the SEIAA will be sought in case of change of mining technology.
<b>41</b>	The Project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. Necessary safeguard measures to protect the first order streams, if any, originating from the mine lease shall be taken.	No natural water course is obstructed. Necessary safeguard measures are taken to protect first order streams if originating from the mining lease in the future.
<b>42</b>	Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board. Water sprinkling should be increased at places	Monitoring of Ambient Air Quality is carried out. Photographs are attached as <b>Annexure-19</b> . Monitoring reports have been enclosed as <b>Annexure- 20</b> .

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	loading and unloading points & transfer point to reduce fugitive emissions.	
<b>43</b>	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.
<b>44</b>	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 the 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 Rainwater Harvesting Ponds for use in water sprinkling, gardening, etc.
<b>45</b>	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading points and transfer points-it shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control	Regular water sprinkling is done on all necessary roads with water tankers and sprinklers. Photograph is attached as <b>Annexure- 9</b>

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	Board in this regard.	
<b>46</b>	Fugitive dust emissions from all sources should be controlled regularly. Water spraying arrangements on haul roads, loading and unloading and transfer points should be provided and properly maintained.	Fugitive dust emissions are controlled by using water tankers with sprinklers.
<b>47</b>	Measures should be taken for control of noise levels below 85 dB (A) in the work environment.	Adequate measures for noise control have been adopted.
<b>48</b>	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive, who will report directly to the head of the Organization.	Environment monitoring cell is formed & is made functional. The details of Environmental monitoring cell are given as <b>Annexure-6</b> . Minutes of 23 <sup>rd</sup> meeting held on 07.06.2023, and 24 <sup>th</sup> meeting held on 08.08.2023 are attached.
<b>49</b>	The funds earmarked for environment protection measures and CSR activities should be kept in a separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the State Environment Impact Assessment Authority (SEIAA) office.	The funds earmarked for environment protection measures and CSR activities shall be kept in a separate account and will not be diverted for other purpose. Photos of the CSR receipts are enclosed as <b>Annexure-23</b> .
<b>50</b>	The Regional Office of MOEF and CC 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	Agreed
<b>51</b>	Any appeal against the Environment Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010	Agreed
<b>52</b>	Concealing the factual data or submission of false/fabricated data and failure to	Agreed

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	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.	
<b>53</b>	The Regional Office of MOEF and CC 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	Agreed
<b>54</b>	The above conditions shall prevail notwithstanding anything to the contrary, inconsistent or simplified, contained in any other permit, license on consent given by any other authority for the same project.	Agreed
<b>55</b>	The order is valid for a period of 5 years of the expiry date of Mine lease period issued by the Government of Kerala, whichever is earlier	Agreed
<b>56</b>	The Environment Clearance will be subject to the final order of the courts in any pending litigation related to the land or the project, in any court of law.	Agreed
<b>57</b>	The Mining operations shall be restricted to above ground water table and it should not intersect ground water table.	Mining operations will be restricted to above ground water table and due care will be taken so as not to intersect ground water.
<b>58</b>	All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking center. Washing of all vehicles shall be inside the Lease area	It is ensured that all transportation vehicles have 'PUC' Certificate issued by an authorized Pollution checking center. All the vehicles are washed inside the lease area.
<b>59</b>	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



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		water. Photograph of Rain water harvesting pond is attached as <b>Annexure- 5</b> .
<b>60</b>	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.
<b>61</b>	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. Health insurance for Employees is enclosed as <b>Annexure-22</b>

**For Granite Building Stone Quarry of Shri. George Kochuparambil**



**George Kochuparambil**  
**Managing Director**

Date: 30-10-2023

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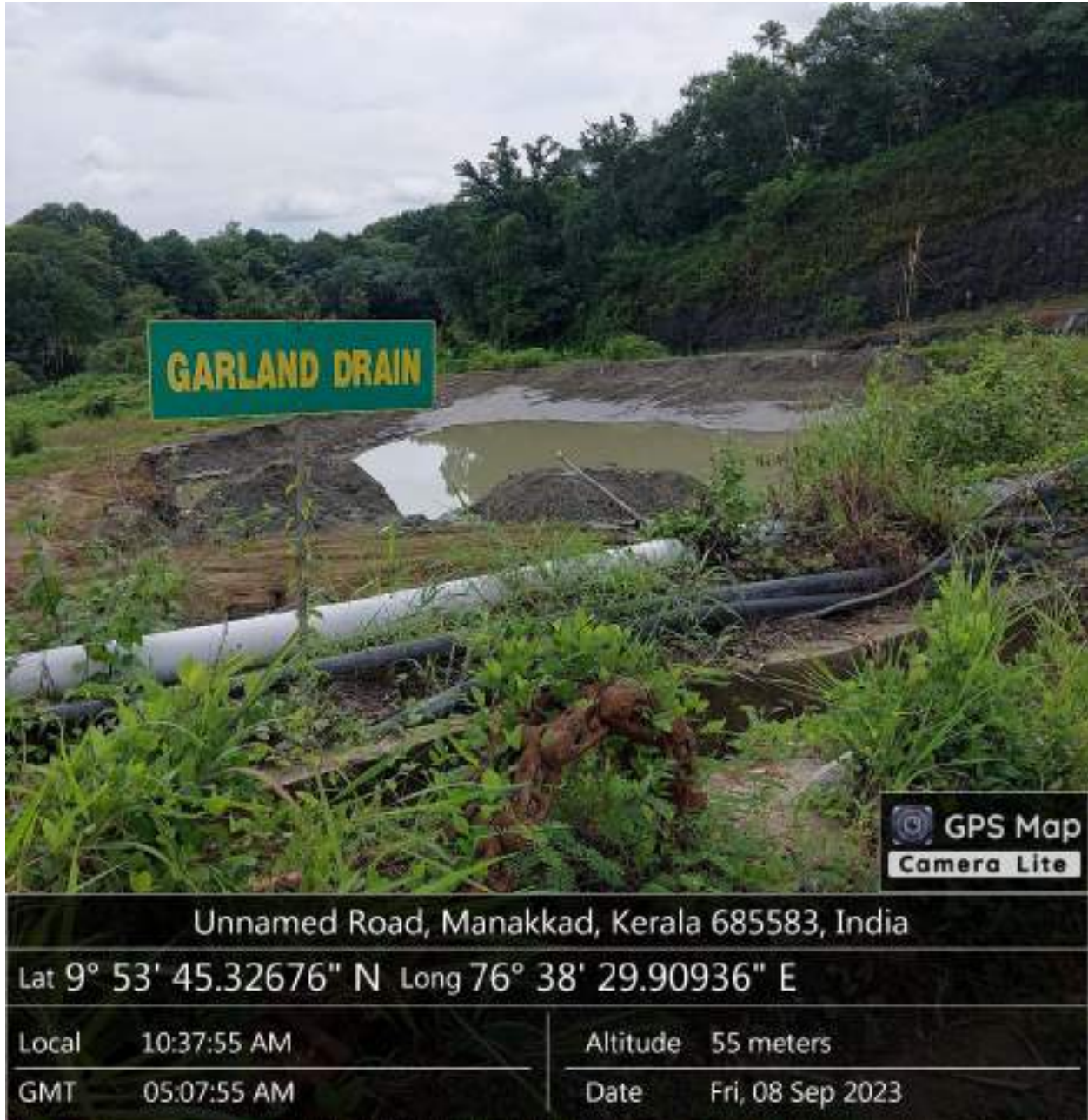
**Annexure 1**



*Green Belt*

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**Annexure- 2**



***Garland Drain***

**TECHNICAL REPORT ON BLAST INDUCED GROUND VIBRATION STUDIES AND  
ASSESSMENT OF EFFECT OF BLASTING OPERATIONS IN  
GRANITE BUILDING STONE QUARRY OF  
Shri. GEORGE KOCHUPARBIL,  
MANAKKAD VILLAGE, THODUPUZZHA (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**

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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 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 First week of Sep 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, 12 blast were conducted at Four different location in the quarry blasting operations were monitored through geophone at the distance of 89.1m, 181.3m, 202.5m and 491.5m. The data obtained from the InstanTel micromate instrument were analysed 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.

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

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

1. In total, twelve blasts were conducted and monitoring were done in nearest house of Mr. Tomy Kurian (towards South West of Mine lease boundary – M2), house of Mr. Krishnan Krishnan (towards North East of Mine lease boundary -M4), M1 (north side of the Rain Water Harvesting Pond-2), & M3 (inside the Mine). All the twelve blasts, were conducted with bench blasting pattern.
2. 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. Depth of holes used are 8ft. The total number of holes varied from 26 to 16. All the blasts were done in hard rock. So staggered pattern of drilling was used.

4. 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 400gm of ANFO. The explosive quantity per hole was 0.650 Kg.
5. Blast induced ground vibrations and air overpressure/ noise generated during the blasts were monitored on compacted ground surface using Micromate of Instanetel, Canada. Distances of monitoring points from the blast site varied from 89.1m to 491.5m.
6. The Peak Particle Velocity was not detected near the house of Mr. Krishnan Krishnan. Distance of house from blast locations was 491.5m.
7. The Peak Particle Velocity recorded near the house of Mr. Tomy Kurian were 0.644mm/s, 0.99mm/s and 1.02mm/s. Distance of house from blast locations was 202.5m.
8. The highest value of vibration recorded at 89.1m from blast site was 3.666 mm/s. This was recorded in blast no: 8 where maximum charge per delay was 0.650 Kg and total explosive charge in the blasting round was 11.70Kg.
9. In between the Monitoring point M1 and the blast location B1, the Rain Water Harvesting Pond-2 exists. The bottom most level of the Rain Water Harvesting Pond-2 is at a lower elevation than the Monitoring point M1 and Blast location B1. So, the values of PPV detected at that monitoring station were comparatively lower.
10. 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.

11. 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.
12. 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 ([www.unitedgranitesandmetals.in](http://www.unitedgranitesandmetals.in)). 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 for a period of five years. Further the validity of EC was extended for the project life of 16 years from the date of original EC (i.e. 17.03.2018) on 02.03.2023.

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*

The house of Mr. Krishnan Krishnan, is located at North East side of the Mine Lease at a distance of 187 m from the Boundary Pillar No.12. Coordinates of the House is 9°53'48.36"N & 76°38'41.28"E. This the nearest house located in the North East direction of the Lease Area.



*Fig 3: House of Mr. Krishnan Krishnan*

### **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 37 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 19.09.2023 & 20.09.2023, 12 Rounds of Blasts were conducted. The locations of Blasting & Monitoring stations are plotted in the Google Earth and shown below.



*Fig 4: 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 site-specific 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
- Twelve 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

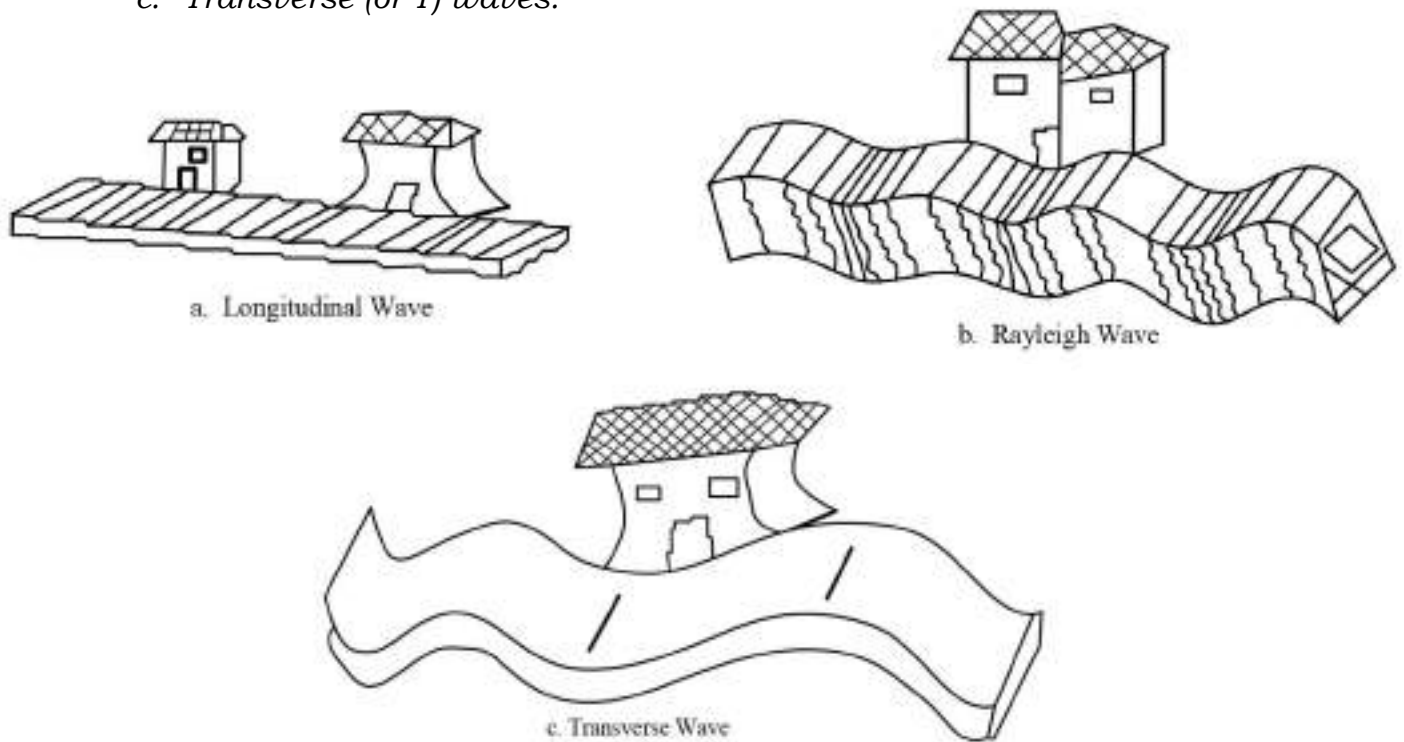
The movement of any particle in the ground can be described in three ways; displacement, velocity and acceleration. Velocity transducers (Geophones) produce the voltage which is proportional to the velocity of movement, and can be easily measured and recorded. They are robust and relatively inexpensive 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.*



*Fig 5: 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		
	<8 Hz	8-25 Hz	>25 Hz
<b>(A) Buildings/Structures not belong to the Owner</b>			
(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>(B) Buildings belonging to Owner with limited span of life</b>			
(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 as 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 complain 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 8 Feet (2.40m) depth, using hand held jackhammer drills (Fig. 6). 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. 9) & 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. 8). (Fig. 11) 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. 10). Fig. 12 shows the muffling arrangement of blasting area/charged holes with blasting mats to control the fly rocks. Fig.13 shows the fragmented material from the blasting operations.



*Fig 6: Drilling of Blast Holes using Jack Hammer*



*Fig 7: A Close view of the Bench Face*



*Fig 8: Non-Electric Detonator & Surface Trunk Line Delay used in the Quarry*



*Fig 9: Explosive Cartridges used in the Quarry*



*Fig 10: Stemming of Blast holes*



*Fig 11: Charged Holes*



*Fig 12: Muffling arrangements to control the Fly rocks*



*Fig 13: Fragmented Rock after Blasting*



*Fig 14: 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, 12 blasts were conducted at different locations in the quarry. Blastholes of 8 Ft depth were charged with the 400gms of ANFO & 250gms of Slurry explosive. 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.14 shows the study carried out to monitor the ground vibration towards the nearby house & 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.

*Table 2: Monitored Blast details*

S. No	Description	Blast No. 1	Blast No. 2	Blast No. 3	Blast No. 4
1	Date of Blast	<i>19.09.2023</i>	<i>19.09.2023</i>	<i>19.09.2023</i>	<i>19.09.2023</i>
2	Time of Blasts (Hours)	<i>10:02:29</i>	<i>10:03:28</i>	<i>10:07:20</i>	<i>10:23:00</i>
3	Location of blasts	<i>9°53'38.58"N, 76°38'28.68"E</i>	<i>9°53'38.58"N, 76°38'28.68"E</i>	<i>9°53'38.58"N, 76°38'28.68"E</i>	<i>9°53'37.68"N, 76°38'24.48"E</i>
4	Diameter of blast hole (mm)	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>
5	Burden (m)	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>
6	Spacing (m)	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>
7	Depth of blast hole (Ft)	<i>8</i>	<i>8</i>	<i>8</i>	<i>8</i>
8	No of blast holes	<i>26</i>	<i>26</i>	<i>25</i>	<i>18</i>
9	Explosive charge/ Hole (kg)	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>
10	Maximum Charge per delay (kg)	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>
11	Total Charge / Blast (kg)	<i>16.90</i>	<i>16.90</i>	<i>16.25</i>	<i>11.70</i>
12	Initiation System	<i>Nonel</i>	<i>Nonel</i>	<i>Nonel</i>	<i>Nonel</i>
13	Initiation Pattern	<i>Row to Row</i>	<i>Row to Row</i>	<i>Row to Row</i>	<i>Row to Row</i>
14	Location of instrument	<i>9°53'44.04"N, 76°38'31.68"E</i>	<i>9°53'44.04"N, 76°38'31.68"E</i>	<i>9°53'44.04"N, 76°38'31.68"E</i>	<i>9°53'35.10"N, 76°38'18.36"E</i>
15	Distance (m)	<i>181.3</i>	<i>181.3</i>	<i>181.3</i>	<i>202.5</i>
16	PPV (mm/s)	<i>0.325</i>	<i>0.564</i>	<i>0.446</i>	<i>1.020</i>
17	Noise (dB)	<i>91.77</i>	<i>113</i>	<i>113</i>	<i>91.6</i>
18	Dominant Frequency (Hz)	<i>154.4</i>	<i>62.13</i>	<i>56.38</i>	<i>55.00</i>

*Table 2: Monitored Blast details*

S. No	Description	Blast No. 5	Blast No. 6	Blast No. 7	Blast No. 8
1	Date of Blast	<i>19.09.2023</i>	<i>19.09.2023</i>	<i>20.09.2023</i>	<i>20.09.2023</i>
2	Time of Blasts (Hours)	<i>10:27:23</i>	<i>10:31:00</i>	<i>10:01:51</i>	<i>10:03:12</i>
3	Location of blasts	<i>9°53'37.68"N, 76°38'24.48"E</i>	<i>9°53'37.68"N, 76°38'24.48"E</i>	<i>9°53'38.76"N, 76°38'30.60"E</i>	<i>9°53'38.76"N, 76°38'30.60"E</i>
4	Diameter of blast hole (mm)	<i>33</i>	<i>33</i>	<i>33</i>	<i>33</i>
5	Burden (m)	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>	<i>1.0</i>
6	Spacing (m)	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>	<i>1.2</i>
7	Depth of blast hole (Ft)	<i>8</i>	<i>8</i>	<i>8</i>	<i>8</i>
8	No of blast holes	<i>16</i>	<i>18</i>	<i>16</i>	<i>18</i>
9	Explosive charge/ Hole (kg)	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>
10	Maximum Charge per delay (kg)	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>	<i>0.65</i>
11	Total Charge / Blast (kg)	<i>10.40</i>	<i>11.70</i>	<i>10.40</i>	<i>11.70</i>
12	Initiation System	<i>Nonel</i>	<i>Nonel</i>	<i>Nonel</i>	<i>Nonel</i>
13	Initiation Pattern	<i>Row to Row</i>	<i>Row to Row</i>	<i>Row to Row</i>	<i>Row to Row</i>
14	Location of instrument	<i>9°53'35.10"N, 76°38'18.36"E</i>	<i>9°53'35.10"N, 76°38'18.36"E</i>	<i>9°53'39.90"N, 76°38'27.90"E</i>	<i>9°53'39.90"N, 76°38'27.90"E</i>
15	Distance (m)	<i>202.5</i>	<i>202.5</i>	<i>89.1</i>	<i>89.1</i>
16	PPV (mm/s)	<i>0.644</i>	<i>0.990</i>	<i>3.296</i>	<i>3.666</i>
17	Noise (dB)	<i>107.8</i>	<i>104.1</i>	<i>118.0</i>	<i>110.3</i>
18	Dominant Frequency (Hz)	<i>84.75</i>	<i>49.75</i>	<i>135.6</i>	<i>85.38</i>



Table 2: Monitored Blast details

S. No	Description	Blast No. 9	Blast No. 10	Blast No. 11	Blast No. 12
1	Date of Blast	20.09.2023	20.09.2023	20.09.2023	20.09.2023
2	Time of Blasts (Hours)	10:05:31	10:26:42	10:27:57	10:30:11
3	Location of blasts	9°53'38.76"N, 76°38'30.60"E	9°53'37.80"N, 76°38'29.34"E	9°53'37.80"N, 76°38'29.34"E	9°53'37.80"N, 76°38'29.34"E
4	Diameter of blast hole (mm)	33	33	33	33
5	Burden (m)	1.0	1.0	1.0	1.0
6	Spacing (m)	1.2	1.2	1.2	1.2
7	Depth of blast hole (Ft)	8	8	8	8
8	No of blast holes	16	25	24	25
9	Explosive charge/ Hole (kg)	0.65	0.65	0.65	0.65
10	Maximum Charge per delay (kg)	0.65	0.65	0.65	0.65
11	Total Charge / Blast (kg)	10.40	16.25	15.60	16.25
12	Initiation System	Nonel	Nonel	Nonel	Nonel
13	Initiation Pattern	Row to Row	Row to Row	Row to Row	Row to Row
14	Location of instrument	9°53'39.90"N, 76°38'27.90"E	9°53'48.36"N, 76°38'41.28"E	9°53'48.36"N, 76°38'41.28"E	9°53'48.36"N, 76°38'41.28"E
15	Distance (m)	89.1	491.5	491.5	491.5
16	PPV (mm/s)	3.145	NOT DETECTED		
17	Noise (dB)	110.4			
18	Dominant Frequency (Hz)	52.13			

## Summary of the Blast Monitoring:

Monitoring Station	Blast Points	Distance (m)	Max Charge Per Delay (Kg)	PPV (mm/s)	Noise (dB)	Dominant Frequency (Hz)
M1	Blast No 1	181.3	0.650	0.325	91.77	154.4
	Blast No 2	181.3	0.650	0.564	113.0	62.13
	Blast No 3	181.3	0.650	0.446	113.0	56.38
M2	Blast No 4	202.5	0.650	1.020	91.6	55.00
	Blast No 5	202.5	0.650	0.644	107.8	84.75
	Blast No 6	202.5	0.650	0.990	104.1	49.75
M3	Blast No 7	89.1	0.650	3.296	118.0	135.6
	Blast No 8	89.1	0.650	3.666	110.3	85.38
	Blast No 9	89.1	0.650	3.145	110.4	52.13
M4	Blast No 10	491.5	0.650	Not detected		
	Blast No 11	491.5	0.650			
	Blast No 12	491.5	0.650			

*Table 3: Summary of the Blast monitoring*

From the Table 2, it can be observed that the highest peak Particle velocity (PPV) recorded was 3.666 mm/sec at the distance of 89.1 m in Blast No 8 and the next highest PPV was 3.296 mm/sec at the distance of 89.1 m in Blast No 7.

The ground vibrations recorded in the Buildings/Structures not belonging to Owner is 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 118 dB was recorded at the distance of 89.1 m from blast location in blast No. 7 and the next highest noise level was 113 dB at the distance of 181.3 m from blast location in Blast No 2 & Blast No 3. The noise level recorded while monitoring in the nearby house were 91.6 dB, 104.1 dB and 107.8dB. 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.

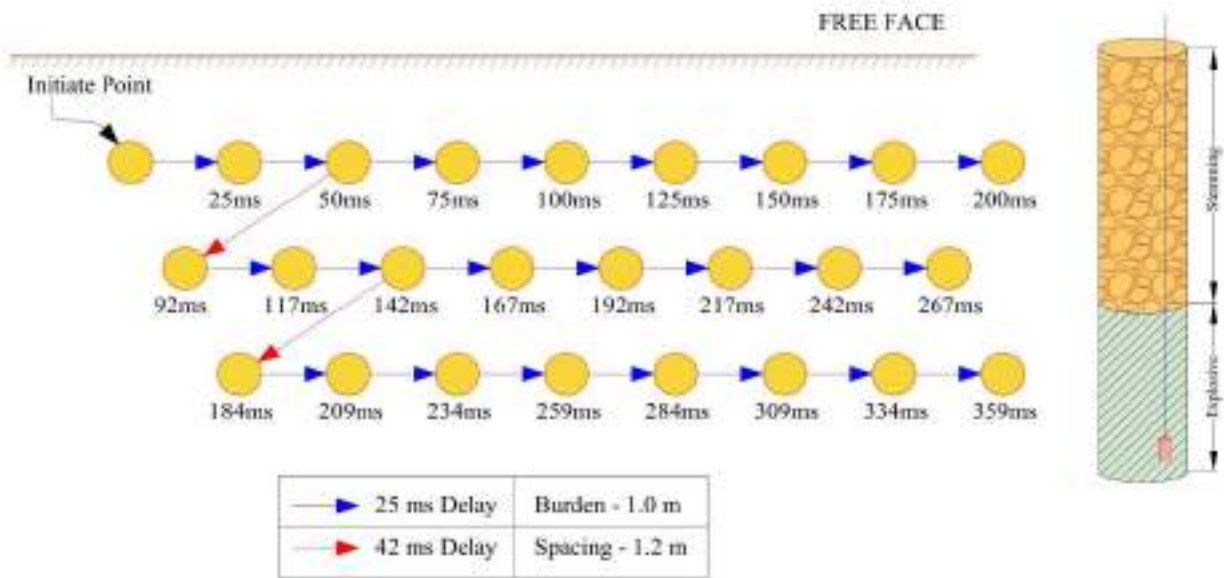
**Remarks:** *It may therefore, be concluded that the intensity of ground vibrations, Noise and fly rock caused due to blasting operations carried out in Granite Building Stone quarry of Shri. George Kochuparambil in Re-survey Block no 11 & Re-survey no. 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt of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

1. 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.
3. 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.15 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 15: Recommended Blasthole pattern*

<b>Sl No</b>	<b>Parameters</b>	<b>Suggestion- I</b>	<b>Suggestion- II</b>
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*



**Cyriac Joseph,**

Managing Partner & EIA Coordinator,  
Global Environment & Mining Services.

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**ISEE**, Blaster's Hand Book (1998)

**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

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

<http://www.vulcanhammer.net/svinkin/prediction.php>

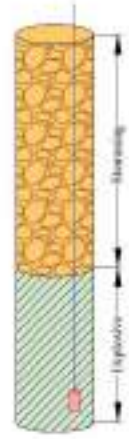
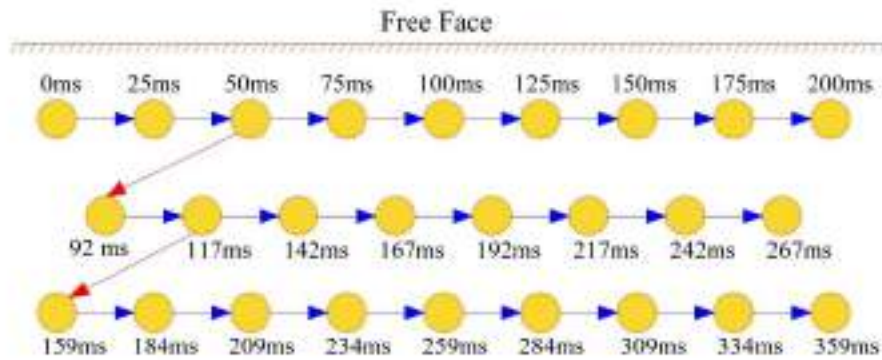
<http://terrock.com.au/vibration/blasting.html>

# APPENDIX – I

## (LAYOUTS OF BLASTS STUDIES)

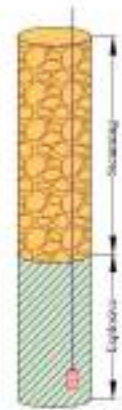
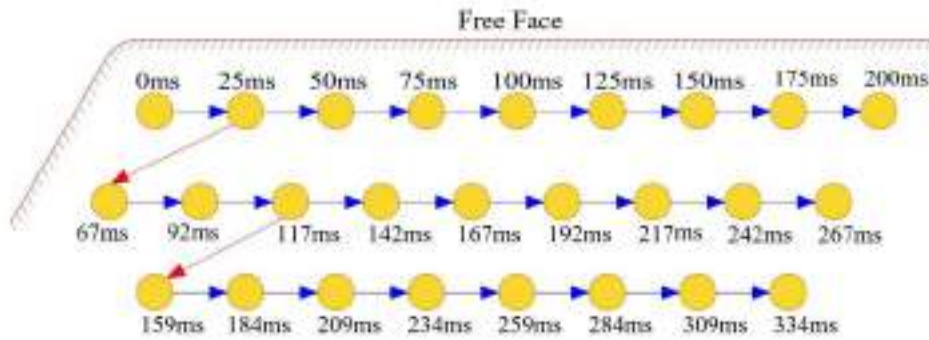


*Layout of Blast No: 1*



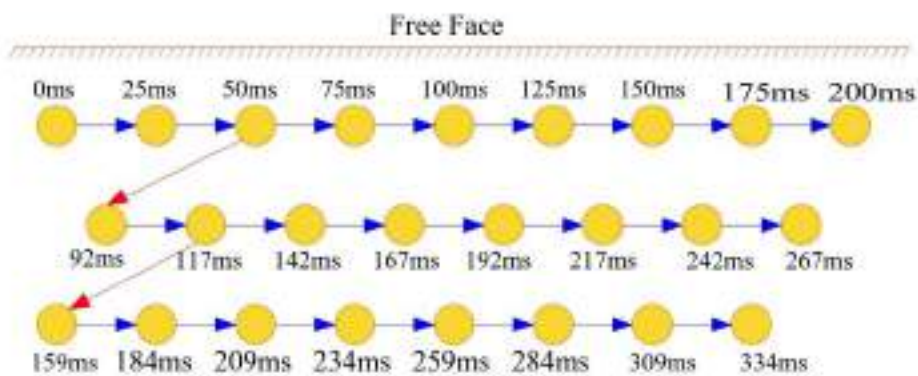
→ 25 ms Delay	Burden - 1.0 m
→ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 2*



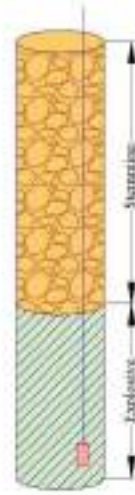
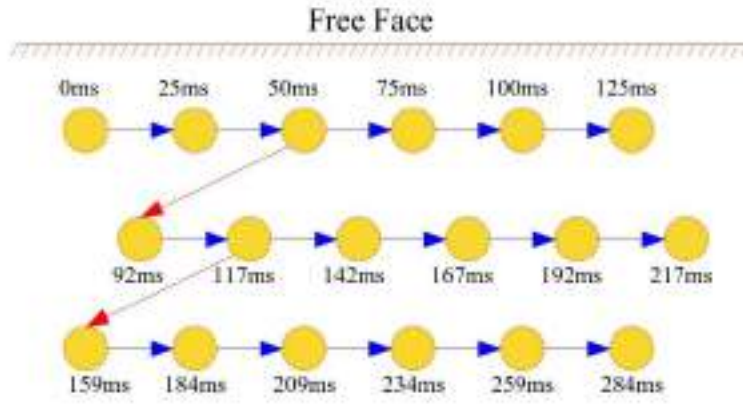
→ 25 ms Delay	Burden - 1.0 m
→ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 3*



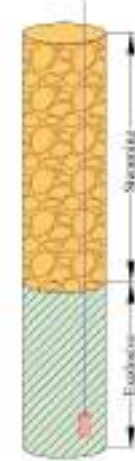
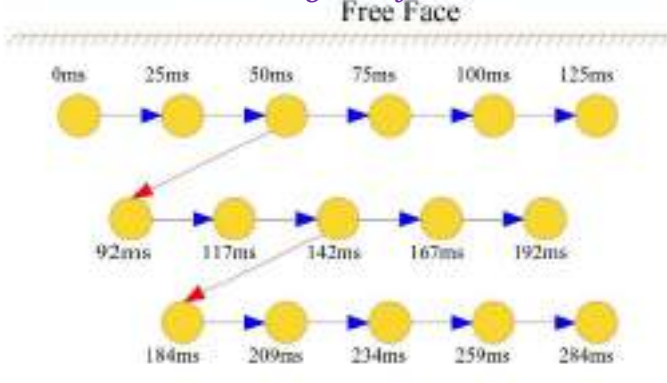
→ 25 ms Delay	Burden - 1.0 m
→ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 4*



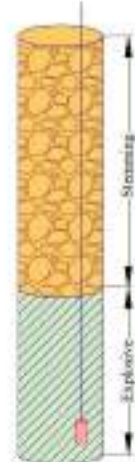
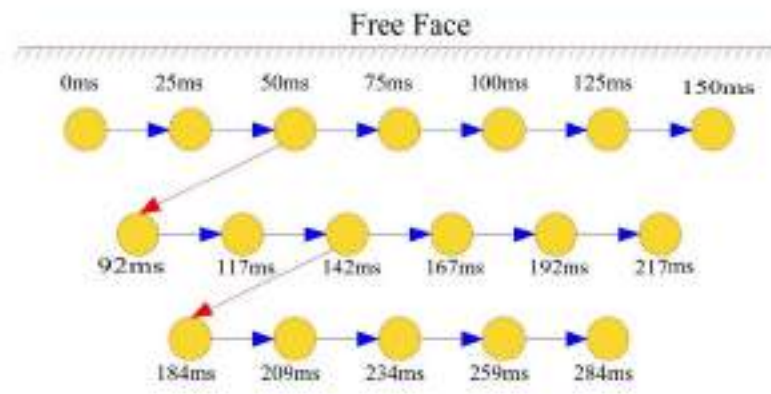
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 5*



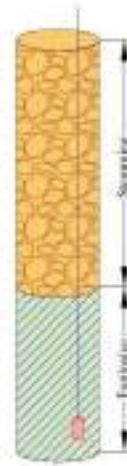
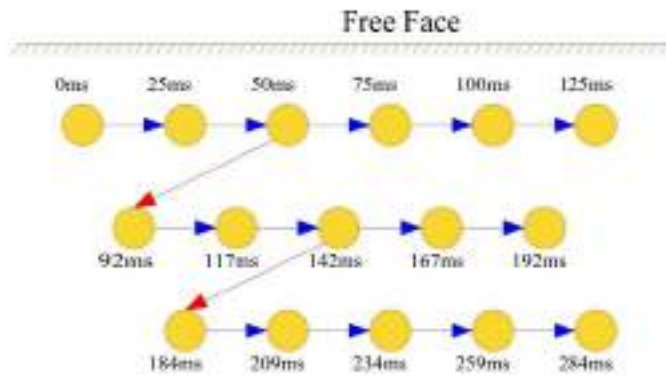
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 6*



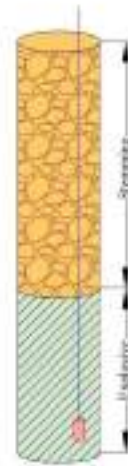
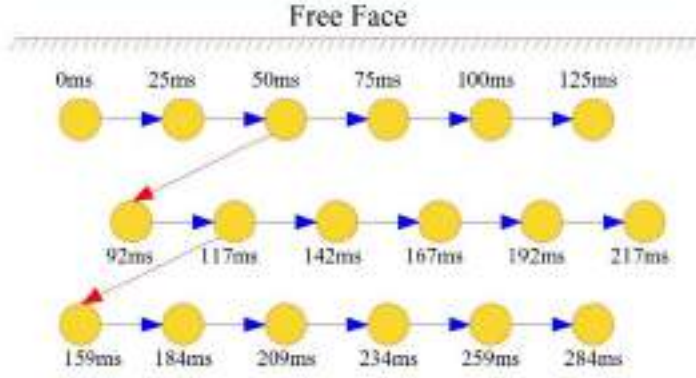
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 7*



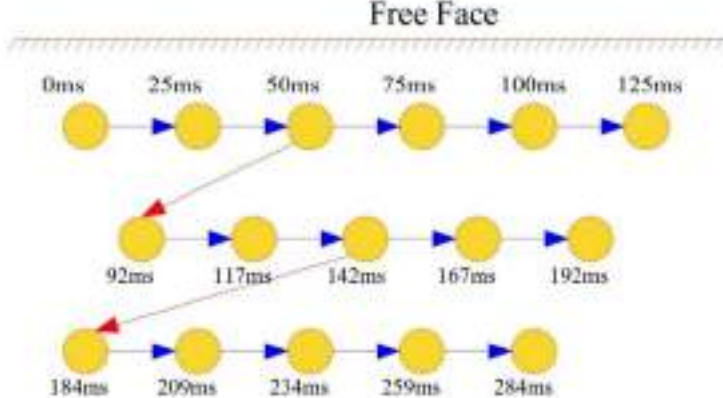
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 8*



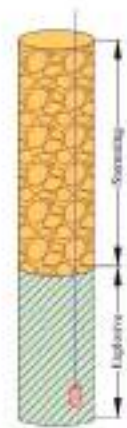
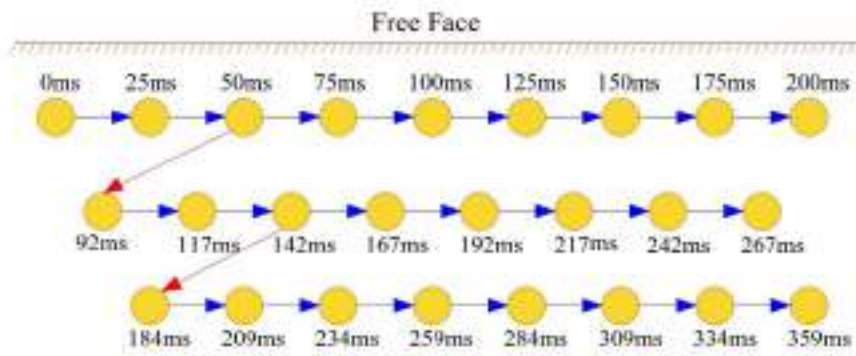
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 9*



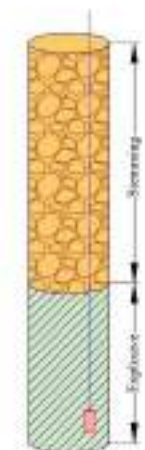
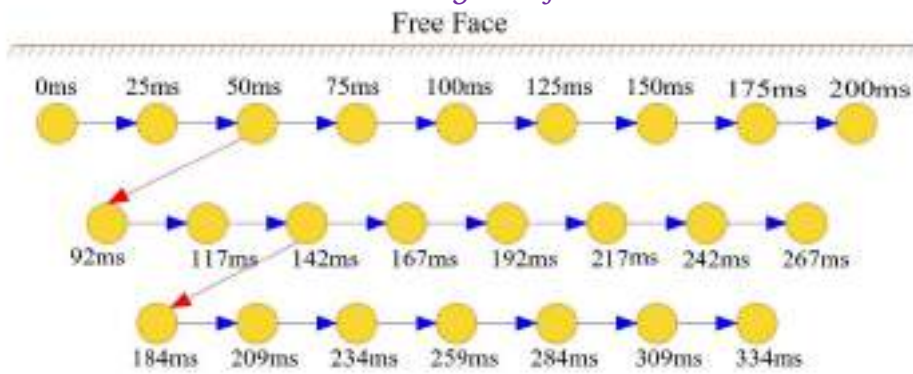
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 10*



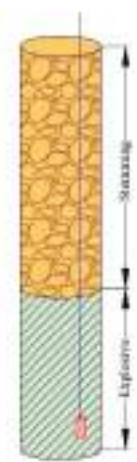
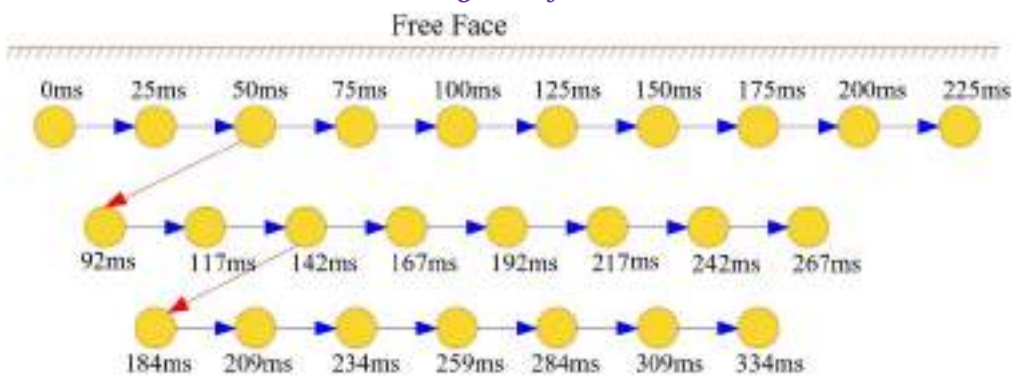
—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 11*



—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

*Layout of Blast No: 12*



—▶ 25 ms Delay	Burden - 1.0 m
—▶ 42 ms Delay	Spacing - 1.2 m

# APPENDIX – II

## (BLAST EVENT REPORTS)

**Date/Time** Long at 10:02:29 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100229.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

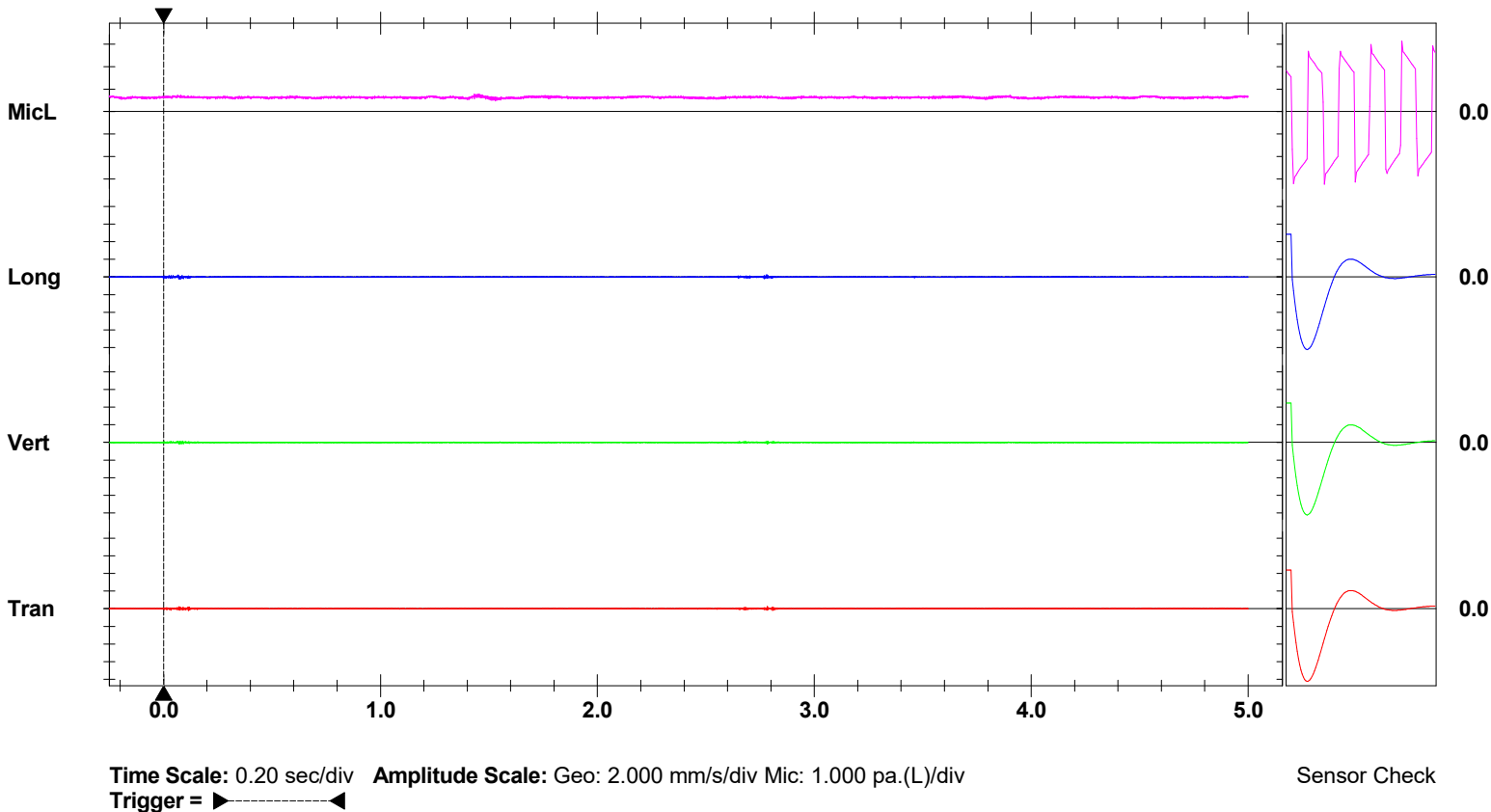
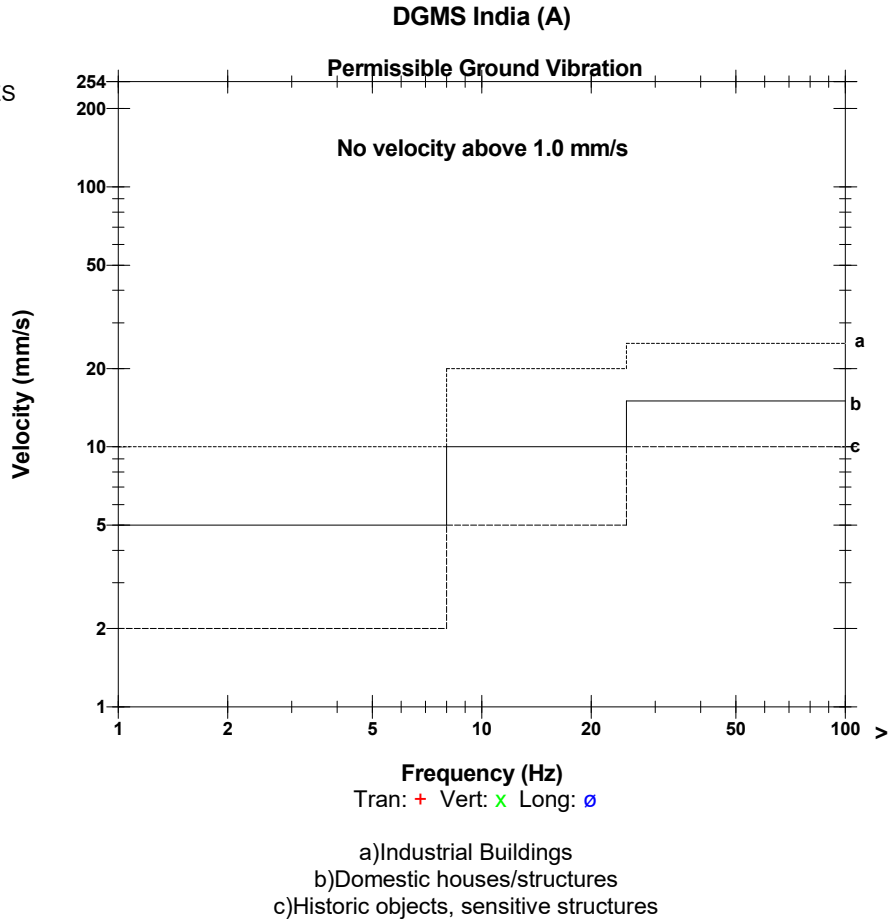
**Notes**

**Location:** STATION-1  
**Client:** GEORGE KOCHUPARAMBIL  
**User Name:** GLOBAL ENVIRONMENT AND MINING SERVICES  
**General:**

**Microphone** Linear Weighting  
**PSPL** 91.77 dB(L) at 1.432 sec  
**ZC Freq** N/A  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1182 mv )

	Tran	Vert	Long	
PPV	0.260	0.189	0.268	mm/s
ZC Freq	>200	>200	171	Hz
Time (Rel. to Trig)	2.784	2.784	2.780	sec
Peak Acceleration	0.035	0.026	0.035	g
Peak Displacement	0.000	0.000	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.1	

**Peak Vector Sum** 0.325 mm/s at 0.077 sec  
**N/A: Not Applicable**

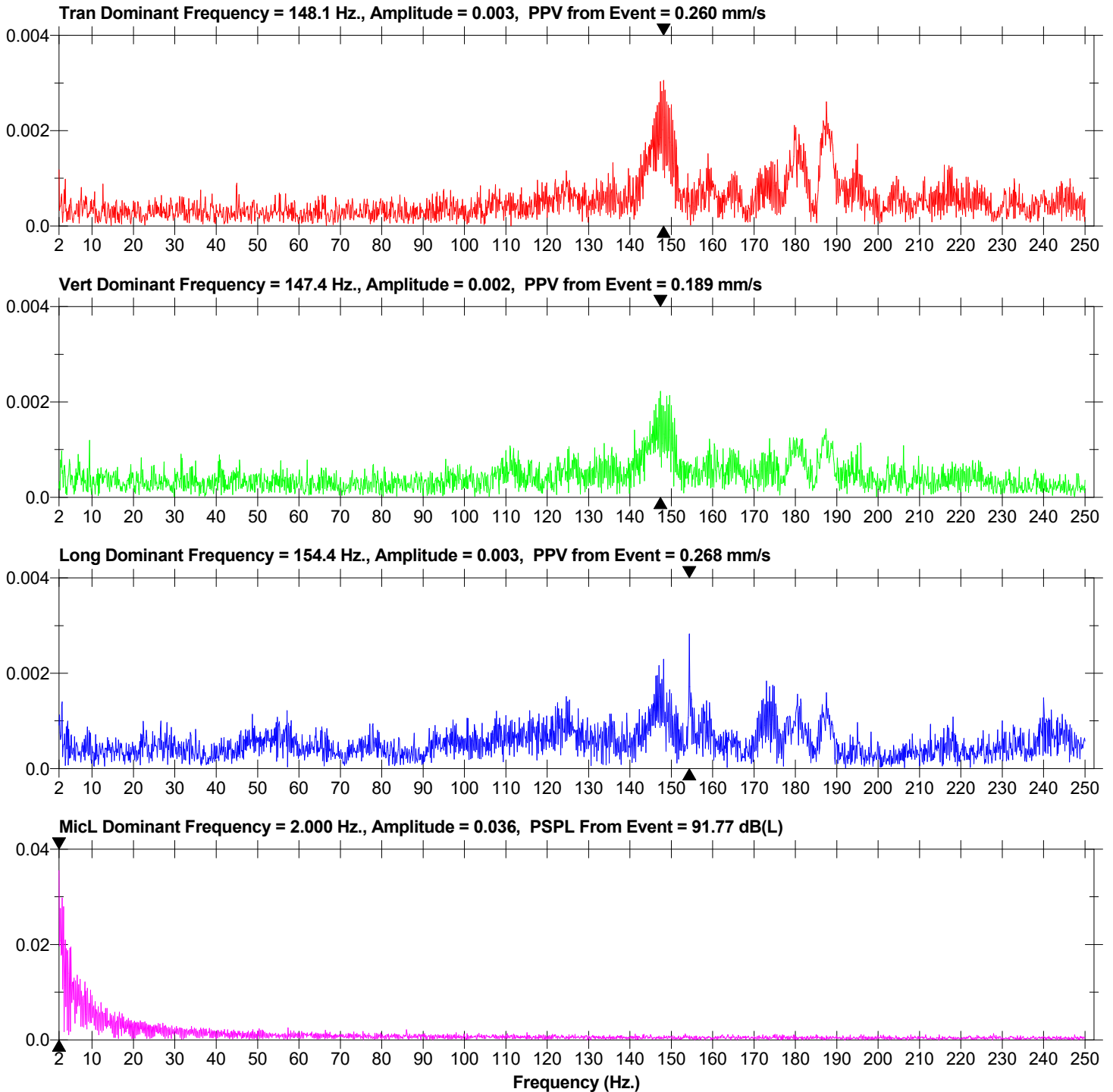


**Date/Time** Long at 10:02:29 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100229.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

### Notes

Location: STATION-1  
Client: GEORGE KOCHUPARAMBIL  
User Name: GLOBAL ENVIRONMENT AND MINING SERVICES  
General:



**Date/Time** Long at 10:03:28 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100328.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

**Notes**

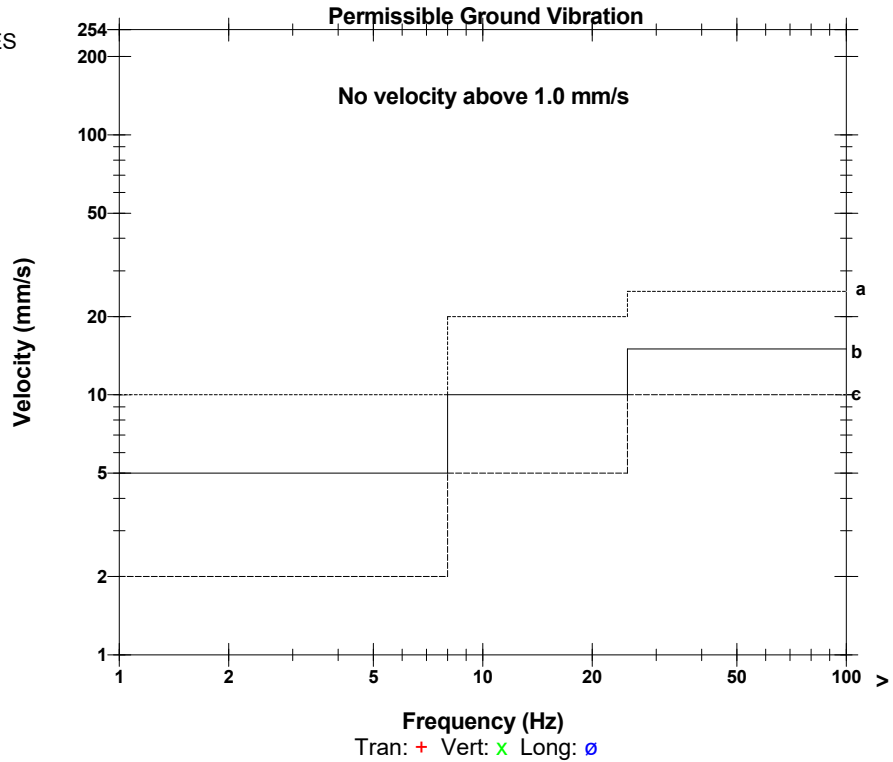
**Location:** STATION-1  
**Client:** GEORGE KOCHUPARAMBIL  
**User Name:** GLOBAL ENVIRONMENT AND MINING SERVICES  
**General:**

**Microphone** Linear Weighting  
**PSPL** 113.0 dB(L) at 0.488 sec  
**ZC Freq** 28 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1161 mv )

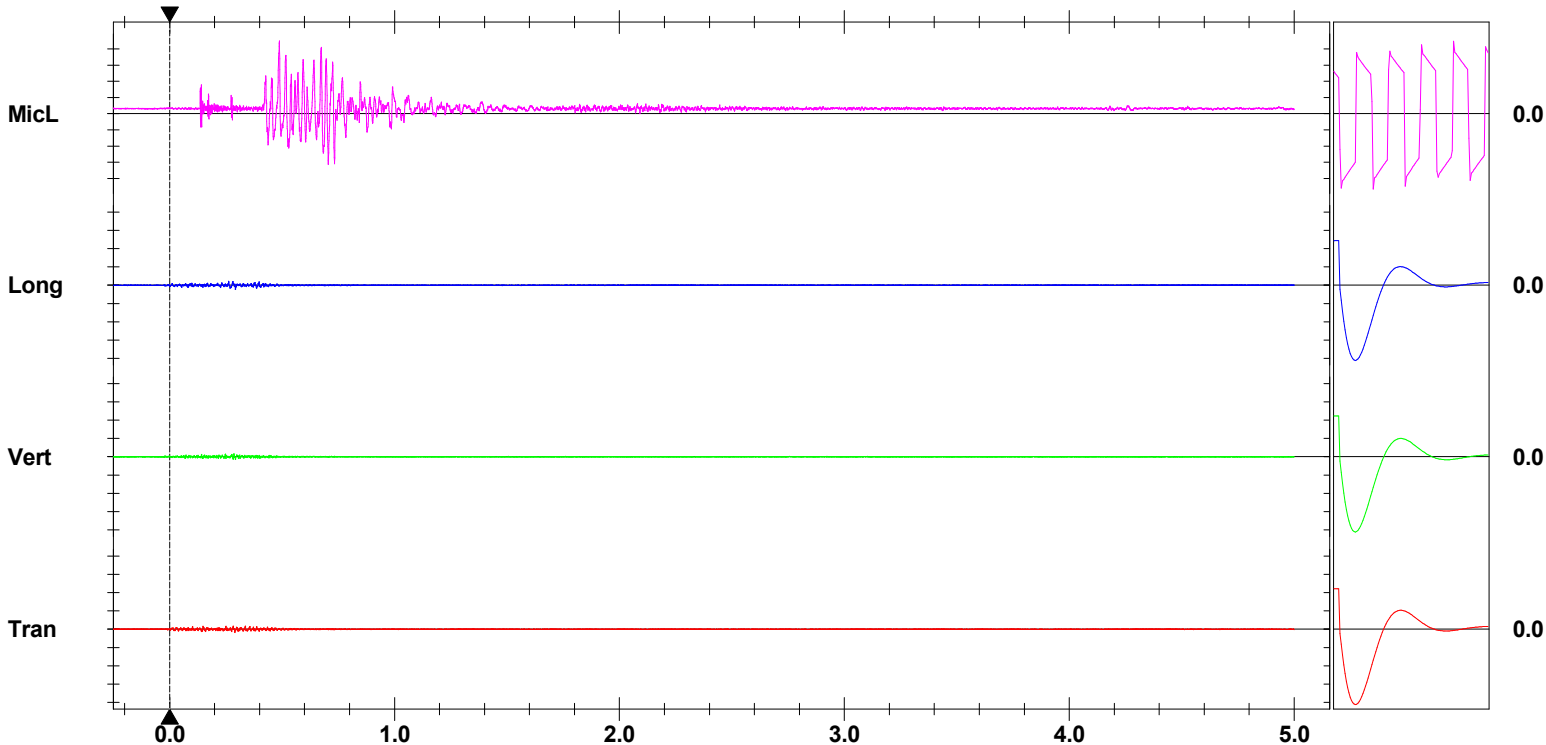
	Tran	Vert	Long	
PPV	0.378	0.331	0.481	mm/s
ZC Freq	60	146	68	Hz
Time (Rel. to Trig)	0.290	0.286	0.292	sec
Peak Acceleration	0.031	0.035	0.039	g
Peak Displacement	0.001	0.001	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.1	

**Peak Vector Sum** 0.564 mm/s at 0.292 sec

**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: 2.000 pa.(L)/div  
**Trigger =**

Sensor Check



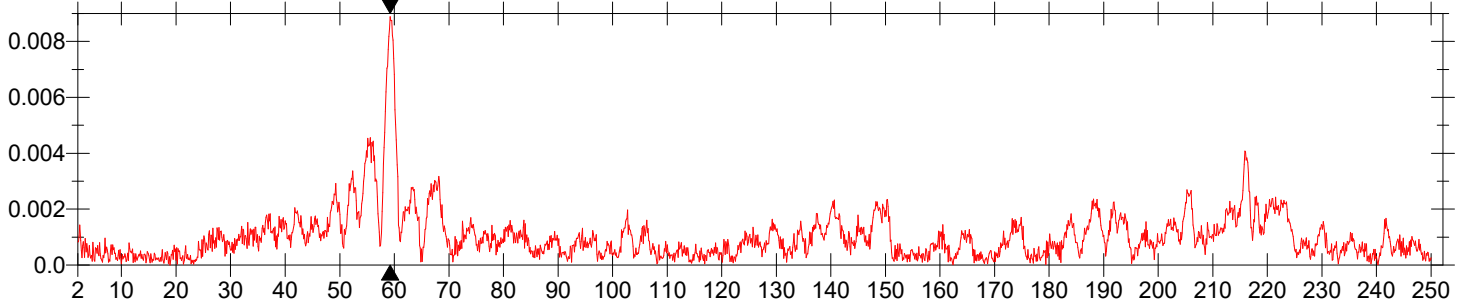
**Date/Time** Long at 10:03:28 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100328.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

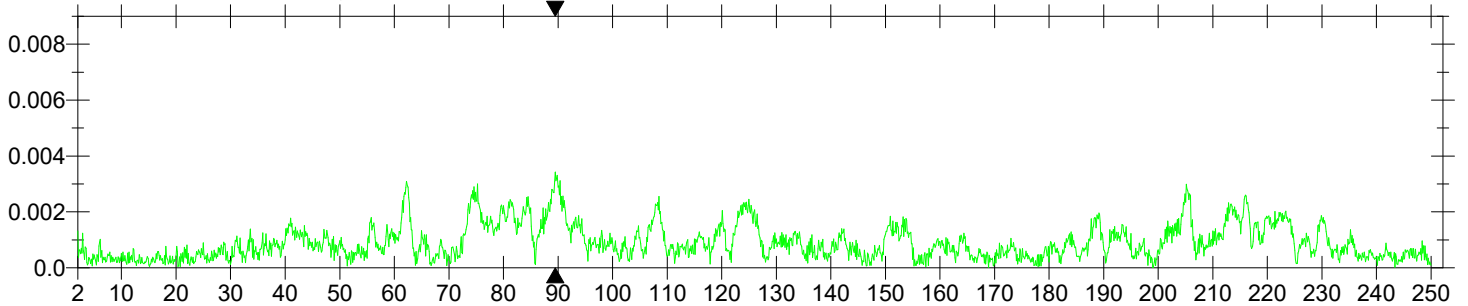
### Notes

Location: STATION-1  
Client: GEORGE KOCHUPARAMBIL  
User Name: GLOBAL ENVIRONMENT AND MINING SERVICES  
General:

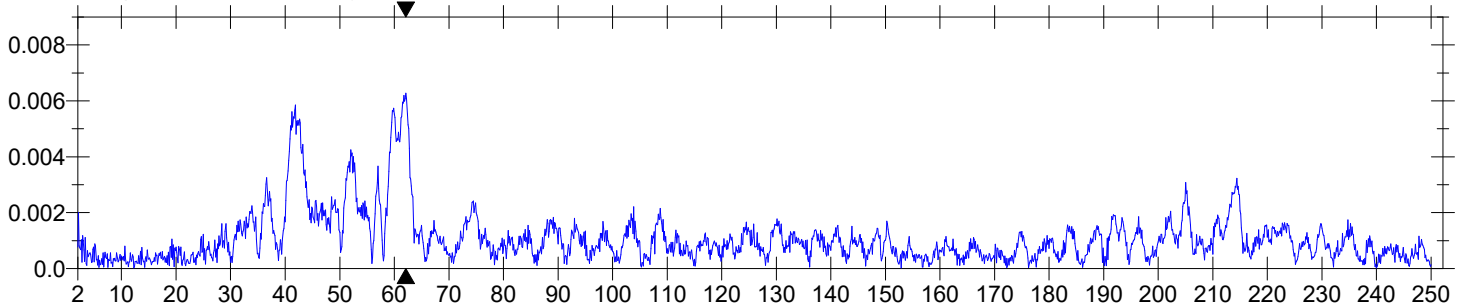
**Tran Dominant Frequency = 59.25 Hz., Amplitude = 0.009, PPV from Event = 0.378 mm/s**



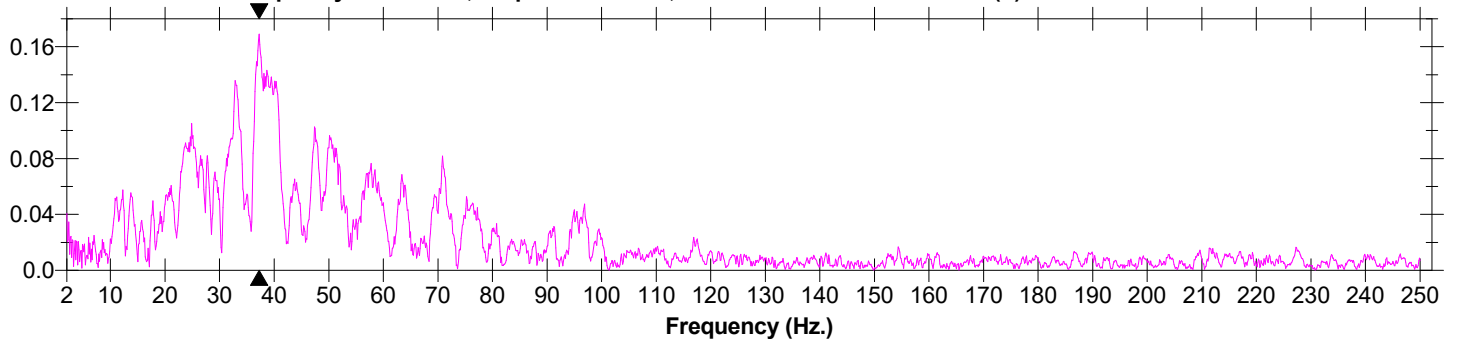
**Vert Dominant Frequency = 89.50 Hz., Amplitude = 0.003, PPV from Event = 0.331 mm/s**



**Long Dominant Frequency = 62.13 Hz., Amplitude = 0.006, PPV from Event = 0.481 mm/s**



**MicL Dominant Frequency = 37.25 Hz., Amplitude = 0.169, PSPL From Event = 113.0 dB(L)**



**Date/Time** Tran at 10:07:20 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100720.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

### Notes

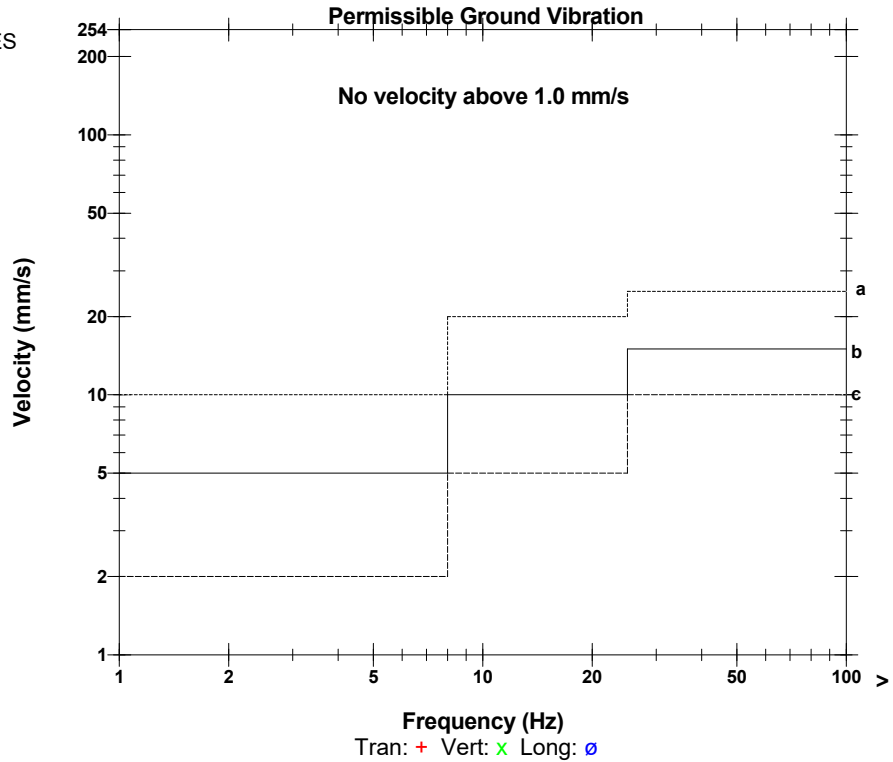
**Location:** STATION-1  
**Client:** GEORGE KOCHUPARAMBIL  
**User Name:** GLOBAL ENVIRONMENT AND MINING SERVICES  
**General:**

**Microphone** Linear Weighting  
**PSPL** 113.0 dB(L) at 0.531 sec  
**ZC Freq** 33 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1139 mv )

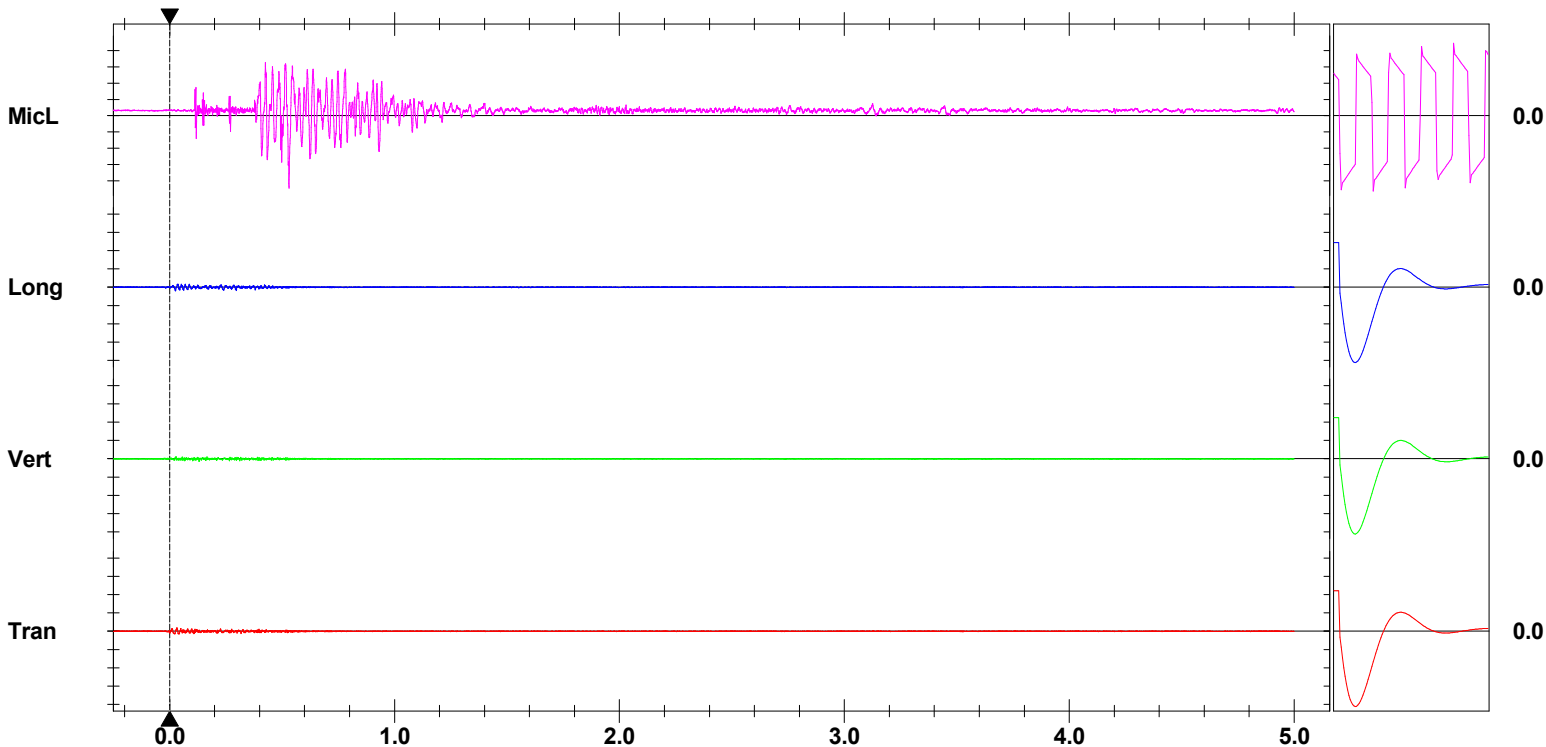
	Tran	Vert	Long	
PPV	0.378	0.284	0.418	mm/s
ZC Freq	47	128	54	Hz
Time (Rel. to Trig)	0.032	0.131	0.025	sec
Peak Acceleration	0.028	0.025	0.033	g
Peak Displacement	0.001	0.000	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.5	Hz
Overswing Ratio	4.0	4.2	4.1	

**Peak Vector Sum** 0.446 mm/s at 0.038 sec

### 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: 2.000 pa.(L)/div  
**Trigger =**

Sensor Check

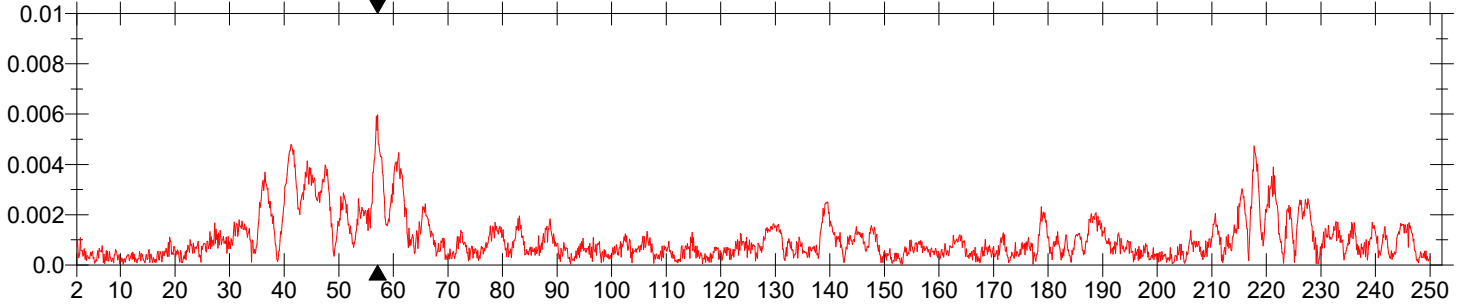
**Date/Time** Tran at 10:07:20 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919100720.IDFW  
**Scaled Distance** 216.7 (181.3 m, 0.7 kg)

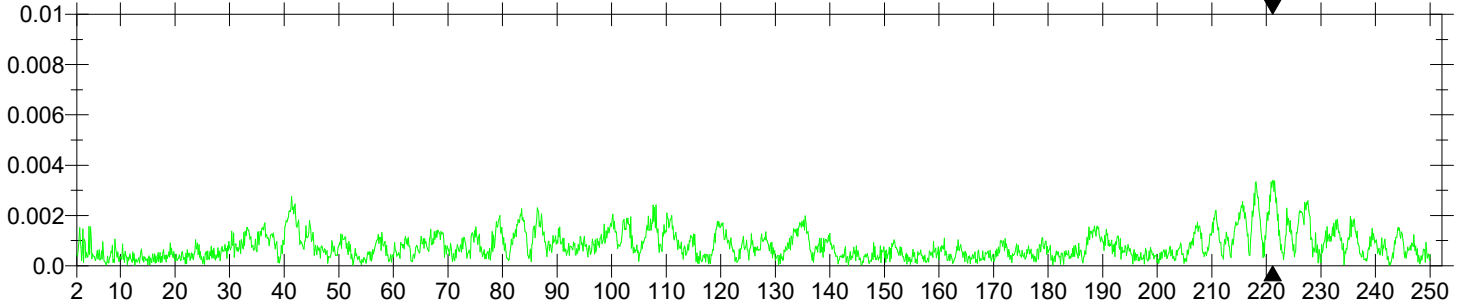
### Notes

Location: STATION-1  
Client: GEORGE KOCHUPARAMBIL  
User Name: GLOBAL ENVIRONMENT AND MINING SERVICES  
General:

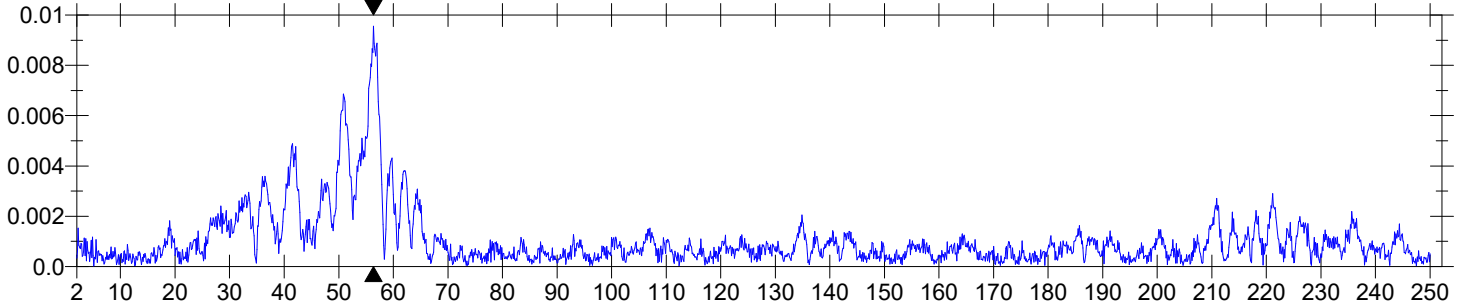
**Tran Dominant Frequency = 57.13 Hz., Amplitude = 0.006, PPV from Event = 0.378 mm/s**



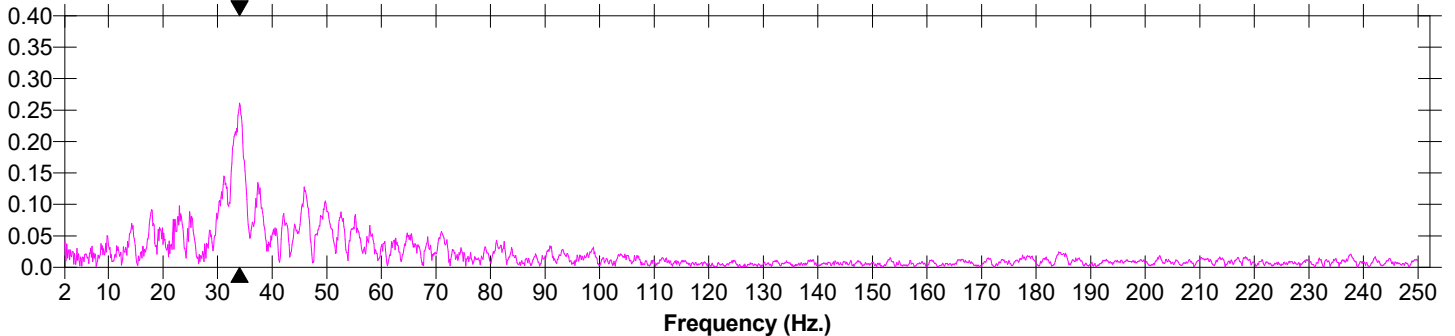
**Vert Dominant Frequency = 221.1 Hz., Amplitude = 0.003, PPV from Event = 0.284 mm/s**



**Long Dominant Frequency = 56.38 Hz., Amplitude = 0.010, PPV from Event = 0.418 mm/s**



**MicL Dominant Frequency = 34.00 Hz., Amplitude = 0.261, PSPL From Event = 113.0 dB(L)**



**Date/Time** Long at 10:23:00 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

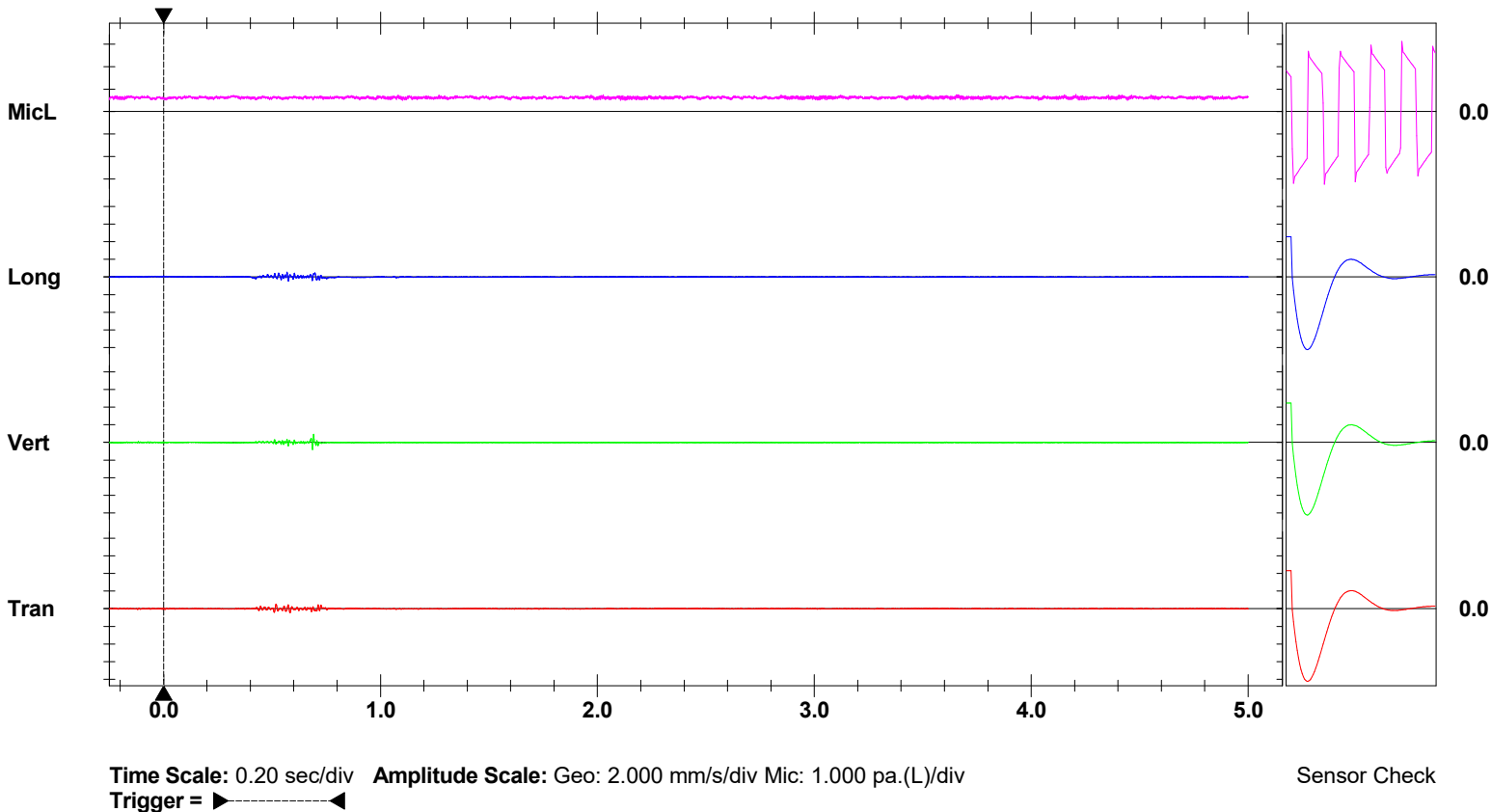
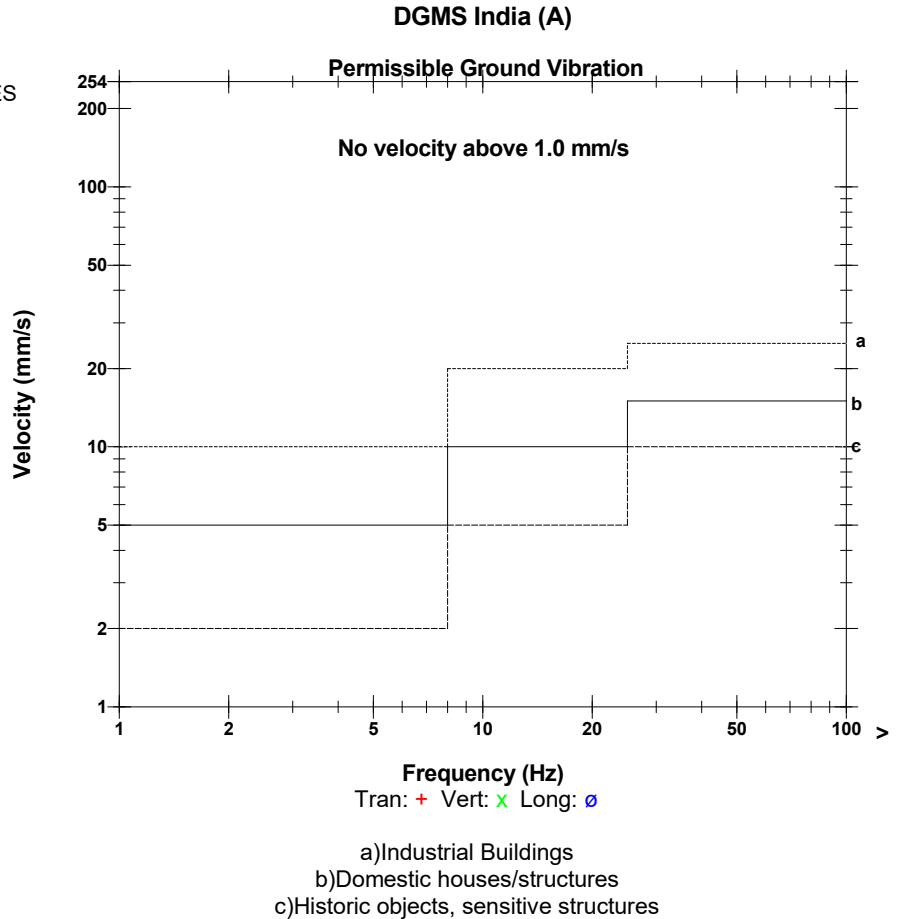
**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919102300.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

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

**Microphone** Linear Weighting  
**PSPL** 91.60 dB(L) at 4.206 sec  
**ZC Freq** N/A  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1229 mv)

	Tran	Vert	Long	
PPV	0.512	0.946	0.560	mm/s
ZC Freq	54	60	68	Hz
Time (Rel. to Trig)	0.518	0.692	0.569	sec
Peak Acceleration	0.021	0.054	0.030	g
Peak Displacement	0.002	0.002	0.003	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.1	4.2	4.1	

**Peak Vector Sum** 1.020 mm/s at 0.692 sec  
**N/A: Not Applicable**



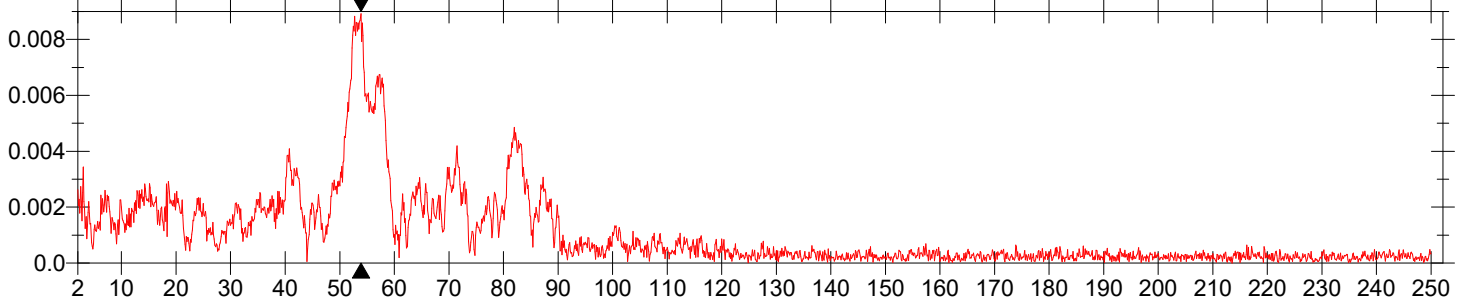
**Date/Time** Long at 10:23:00 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919102300.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

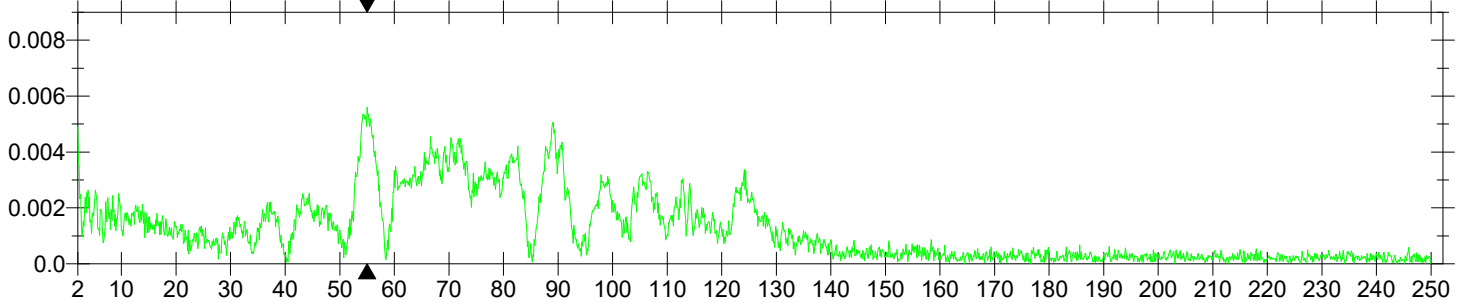
**Notes**

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

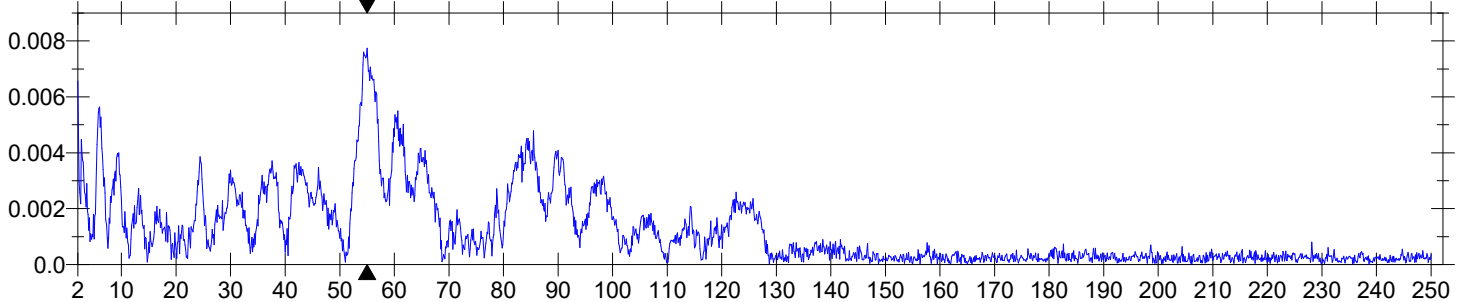
**Tran Dominant Frequency = 53.88 Hz., Amplitude = 0.009, PPV from Event = 0.512 mm/s**



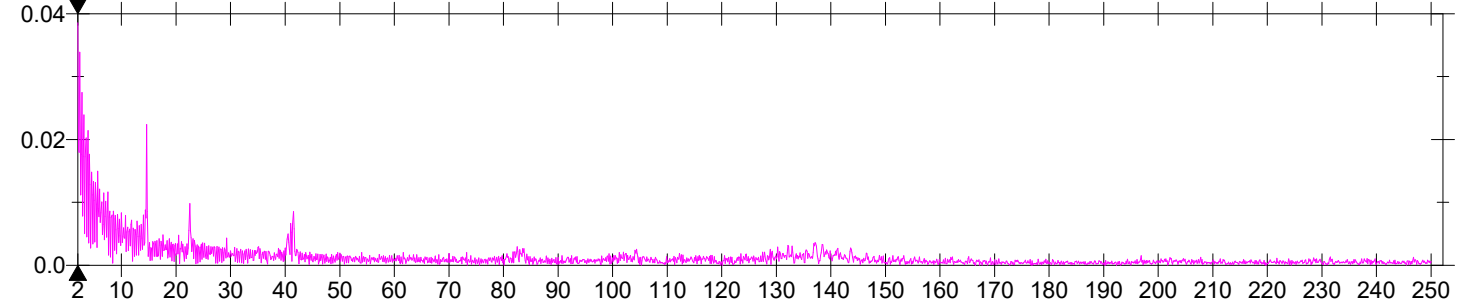
**Vert Dominant Frequency = 55.00 Hz., Amplitude = 0.006, PPV from Event = 0.946 mm/s**



**Long Dominant Frequency = 55.00 Hz., Amplitude = 0.008, PPV from Event = 0.560 mm/s**



**MicL Dominant Frequency = 2.000 Hz., Amplitude = 0.039, PSPL From Event = 91.60 dB(L)**



Frequency (Hz.)

**Date/Time** Vert at 10:27:23 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919102723.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

**Notes**

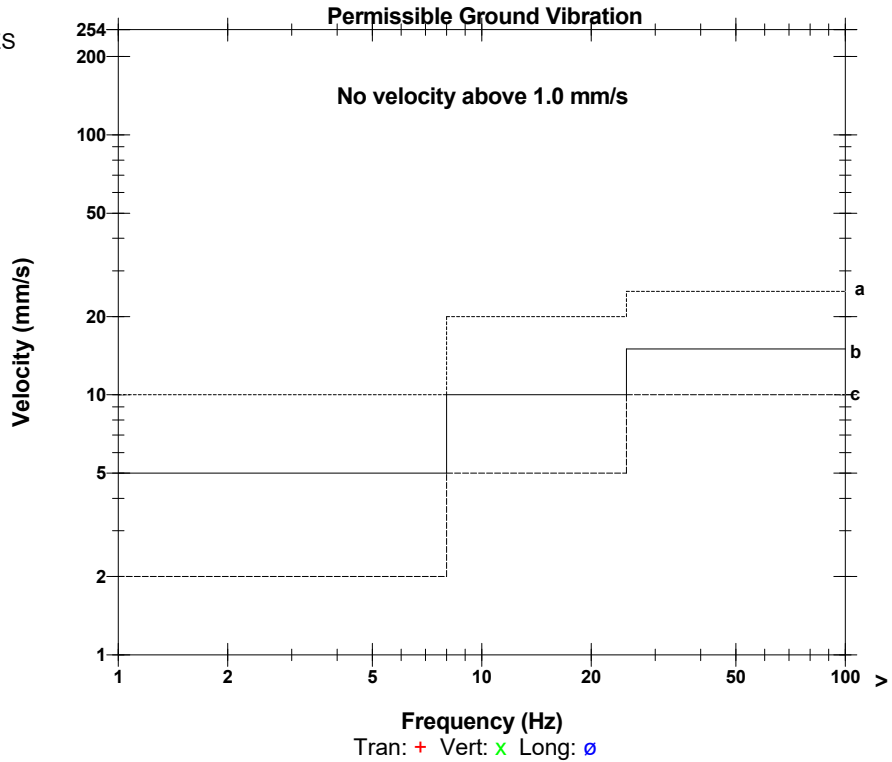
**Location:** STATION-2  
**Client:** GEORGE KOCHUPARAMBIL  
**User Name:** GLOBAL ENVIRONMENT AND MINING SERVICES  
**General:**

**Microphone** Linear Weighting  
**PSPL** 107.8 dB(L) at 0.668 sec  
**ZC Freq** 20 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1234 mv )

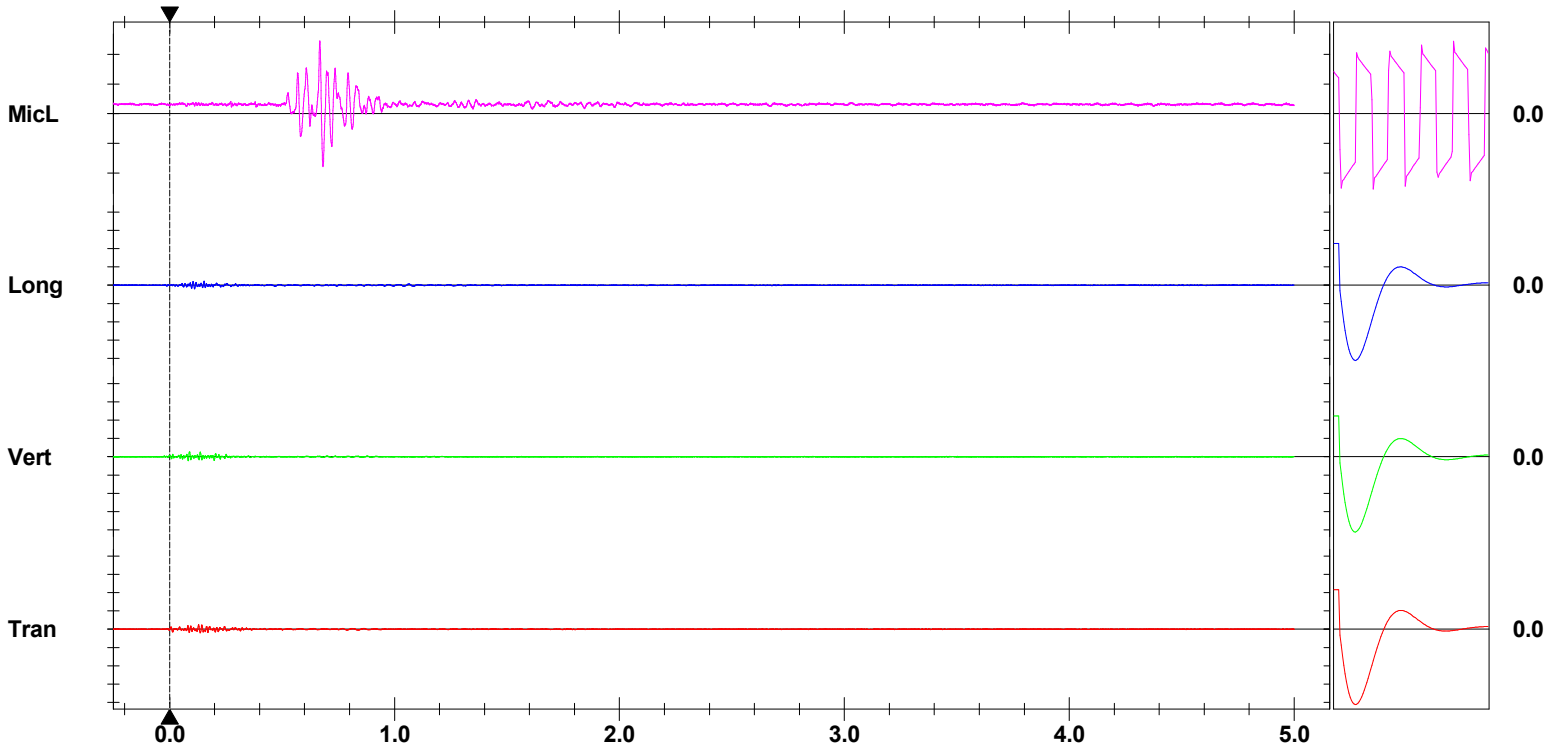
	Tran	Vert	Long	
PPV	0.504	0.544	0.441	mm/s
ZC Freq	64	79	79	Hz
Time (Rel. to Trig)	0.129	0.089	0.153	sec
Peak Acceleration	0.025	0.035	0.021	g
Peak Displacement	0.001	0.001	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.1	

**Peak Vector Sum** 0.644 mm/s at 0.136 sec

**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: 2.000 pa.(L)/div  
**Trigger =**

Sensor Check

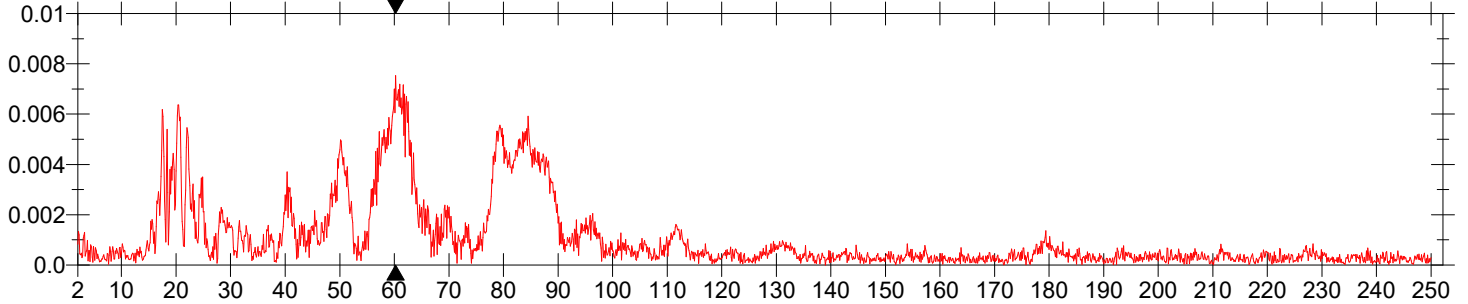
**Date/Time** Vert at 10:27:23 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919102723.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

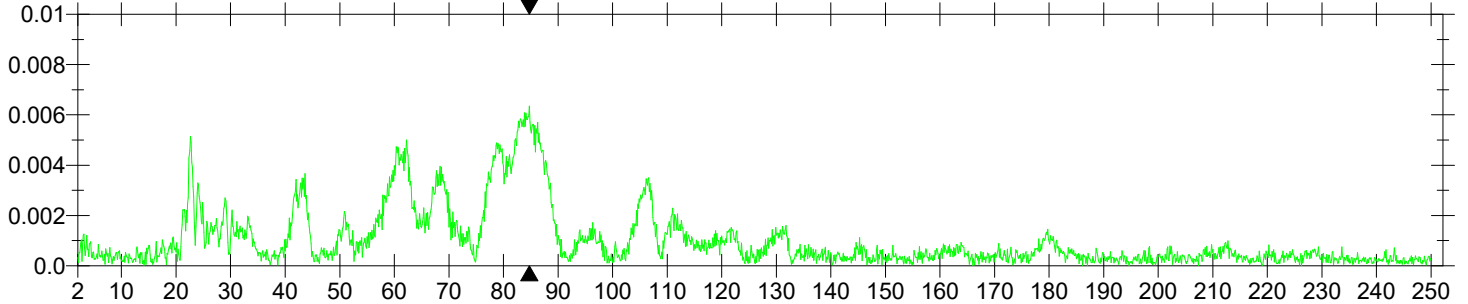
### Notes

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

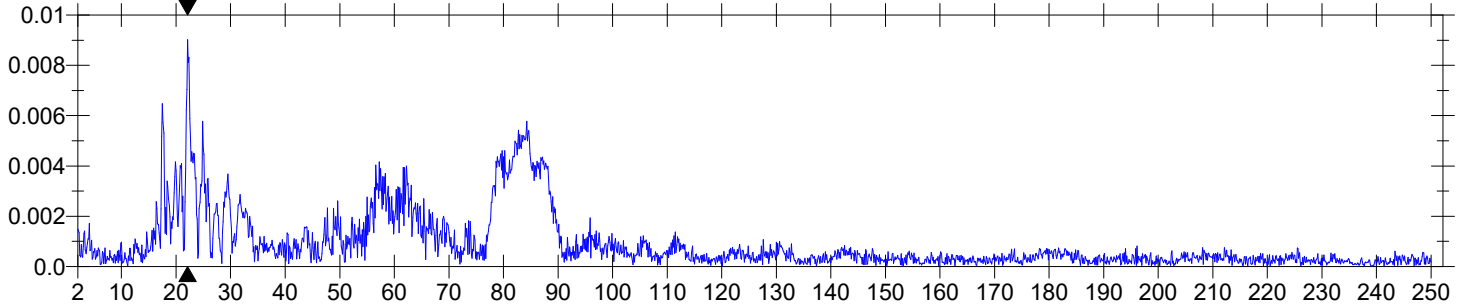
**Tran Dominant Frequency = 60.25 Hz., Amplitude = 0.008, PPV from Event = 0.504 mm/s**



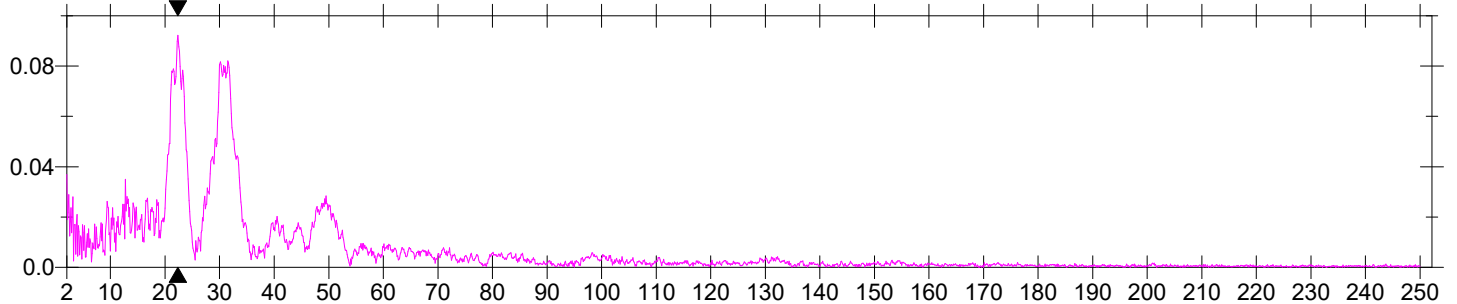
**Vert Dominant Frequency = 84.75 Hz., Amplitude = 0.006, PPV from Event = 0.544 mm/s**



**Long Dominant Frequency = 22.13 Hz., Amplitude = 0.009, PPV from Event = 0.441 mm/s**



**MicL Dominant Frequency = 22.38 Hz., Amplitude = 0.092, PSPL From Event = 107.8 dB(L)**



Frequency (Hz.)

**Date/Time** Vert at 10:31:00 September 19, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

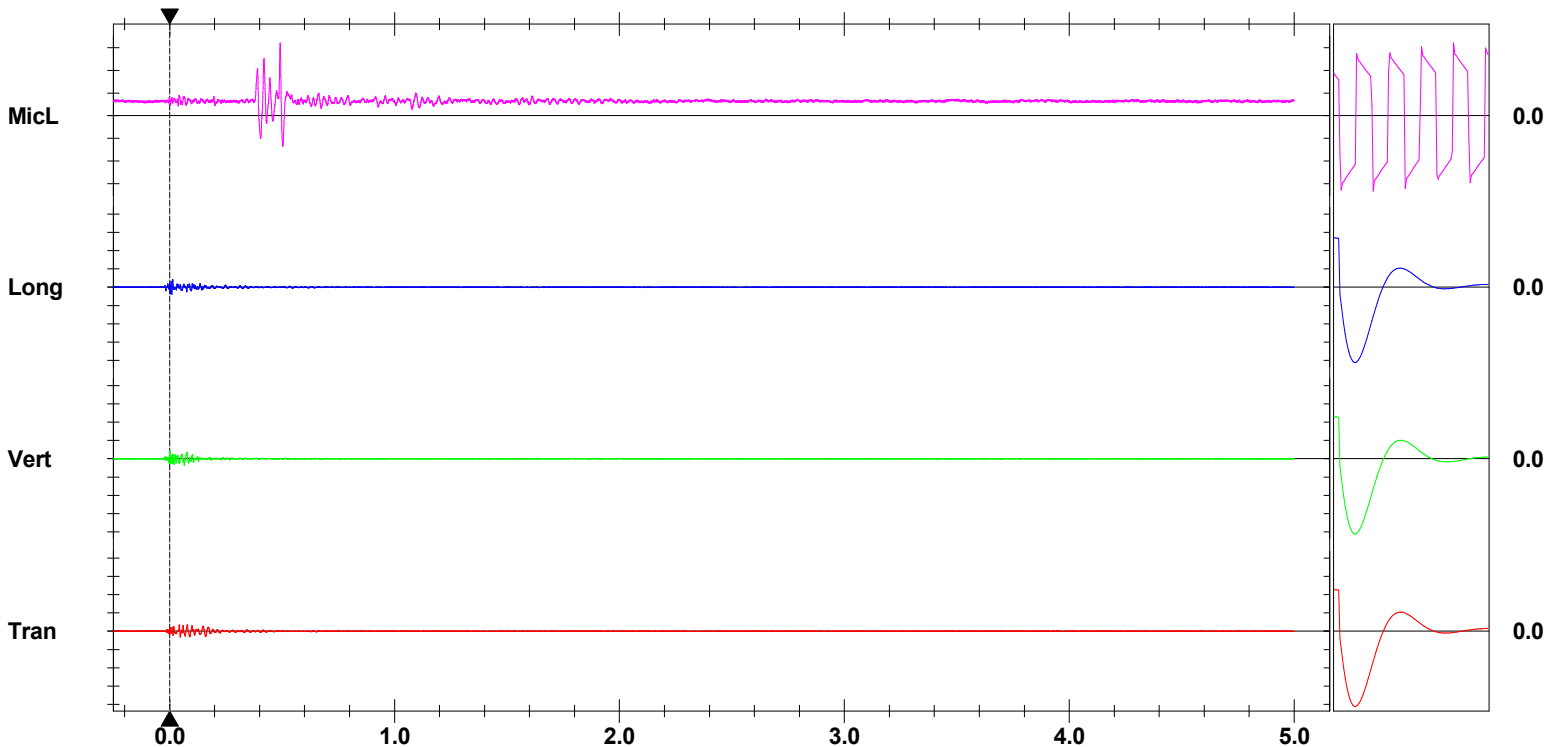
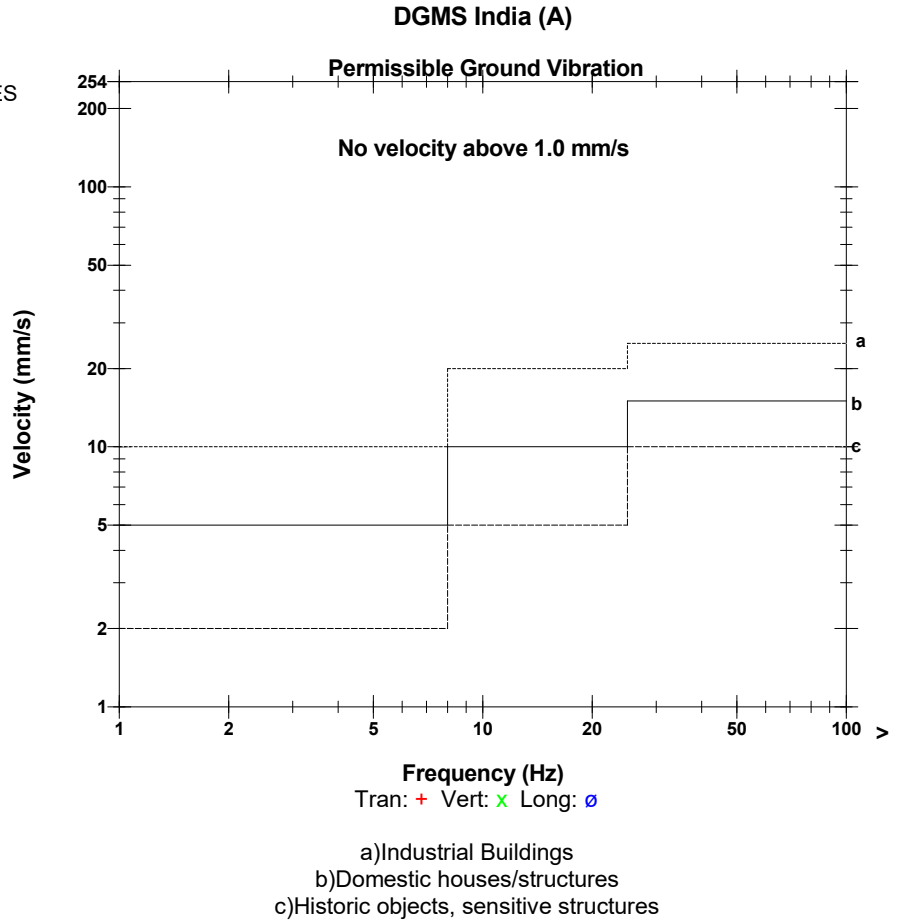
**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919103100.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

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

**Microphone** Linear Weighting  
**PSPL** 104.1 dB(L) at 0.491 sec  
**ZC Freq** 14.6 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1134 mv )

	Tran	Vert	Long	
PPV	0.725	0.899	0.843	mm/s
ZC Freq	41	146	102	Hz
Time (Rel. to Trig)	0.043	0.001	0.014	sec
Peak Acceleration	0.058	0.076	0.067	g
Peak Displacement	0.002	0.002	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.3	7.5	Hz
Overswing Ratio	4.0	4.1	4.0	

Peak Vector Sum 0.990 mm/s at 0.014 sec



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

Sensor Check

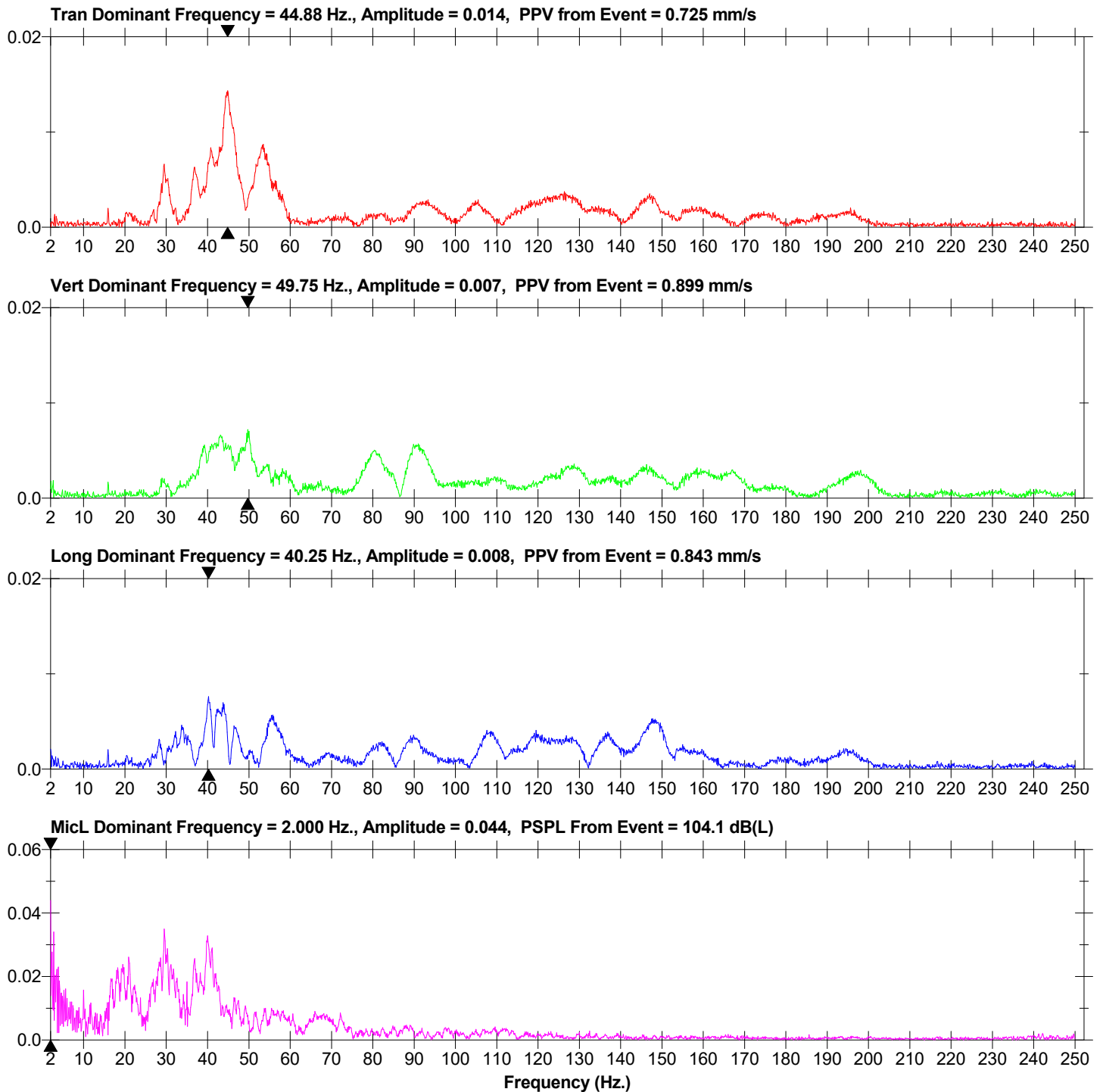


**Date/Time** Vert at 10:31:00 September 19, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230919103100.IDFW  
**Scaled Distance** 242.1 (202.5 m, 0.7 kg)

### Notes

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



**Date/Time** MicL at 10:01:51 September 20, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100151.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

**Notes**

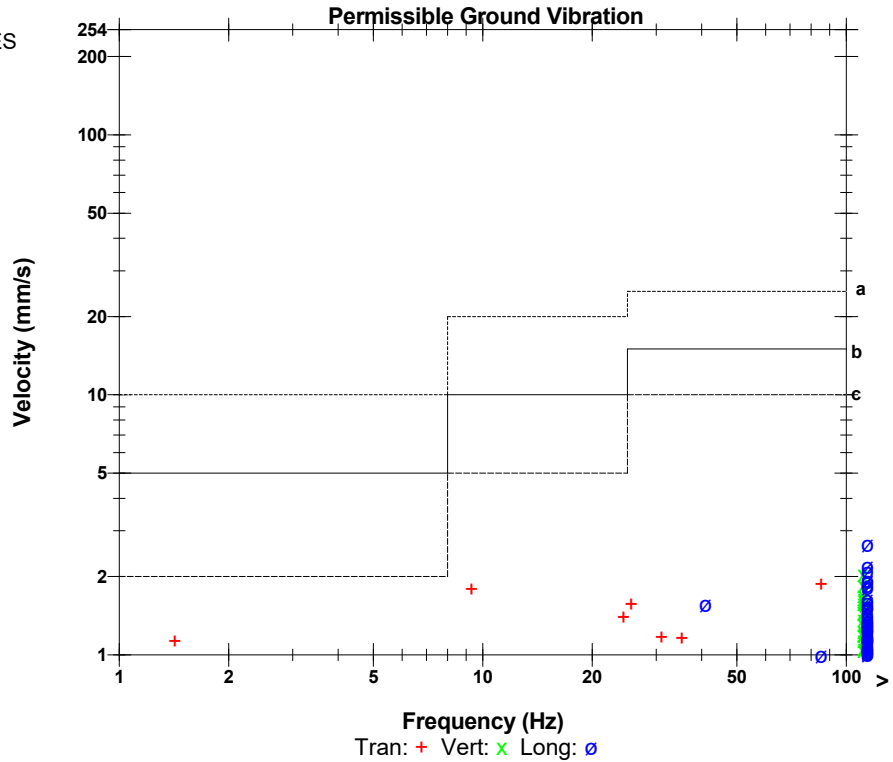
**Location:** STATION-3  
**Client:** GEORGE KOCHUPARAMBIL  
**User Name:** GLOBAL ENVIRONMENT AND MINING SERVICES  
**General:**

**Microphone** Linear Weighting  
**PSPL** 118.0 dB(L) at 0.422 sec  
**ZC Freq** 93 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1208 mv )

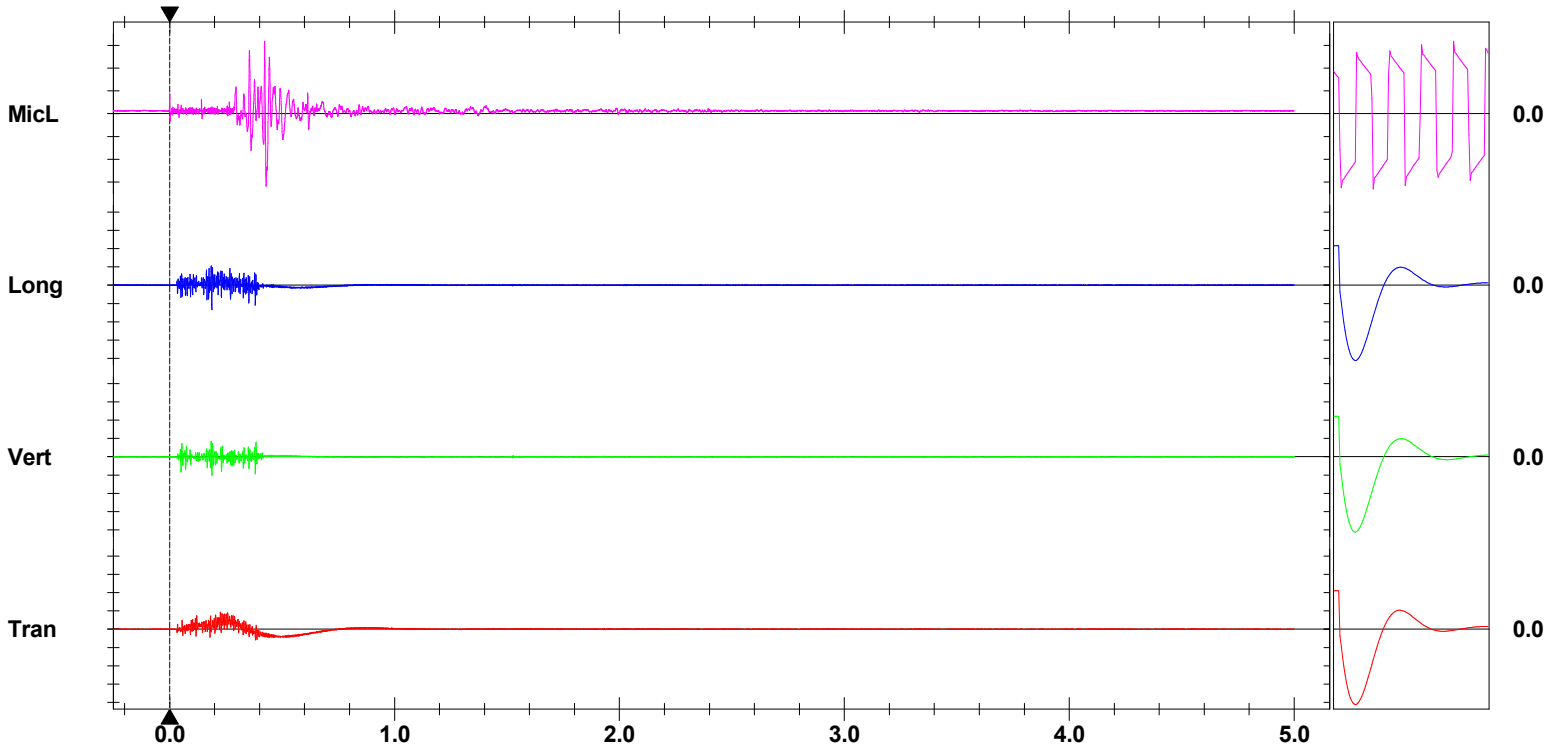
	Tran	Vert	Long	
PPV	1.876	2.049	2.680	mm/s
ZC Freq	85	146	>200	Hz
Time (Rel. to Trig)	0.226	0.188	0.188	sec
Peak Acceleration	0.158	0.189	0.301	g
Peak Displacement	0.093	0.005	0.029	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.2	

**Peak Vector Sum** 3.296 mm/s at 0.188 sec

**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 =**

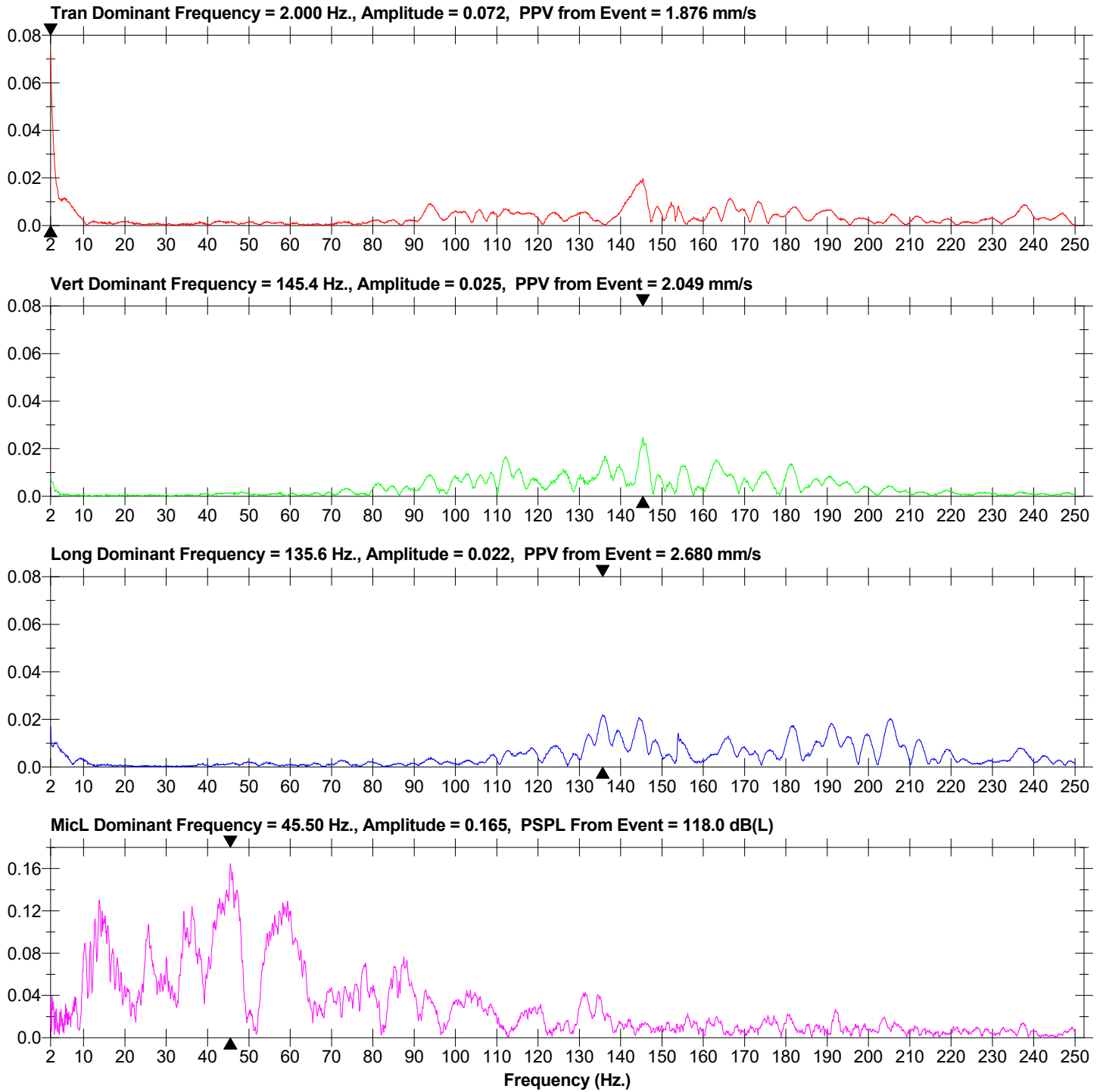
Sensor Check

**Date/Time** MicL at 10:01:51 September 20, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100151.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

### Notes

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



**Date/Time** Long at 10:03:12 September 20, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

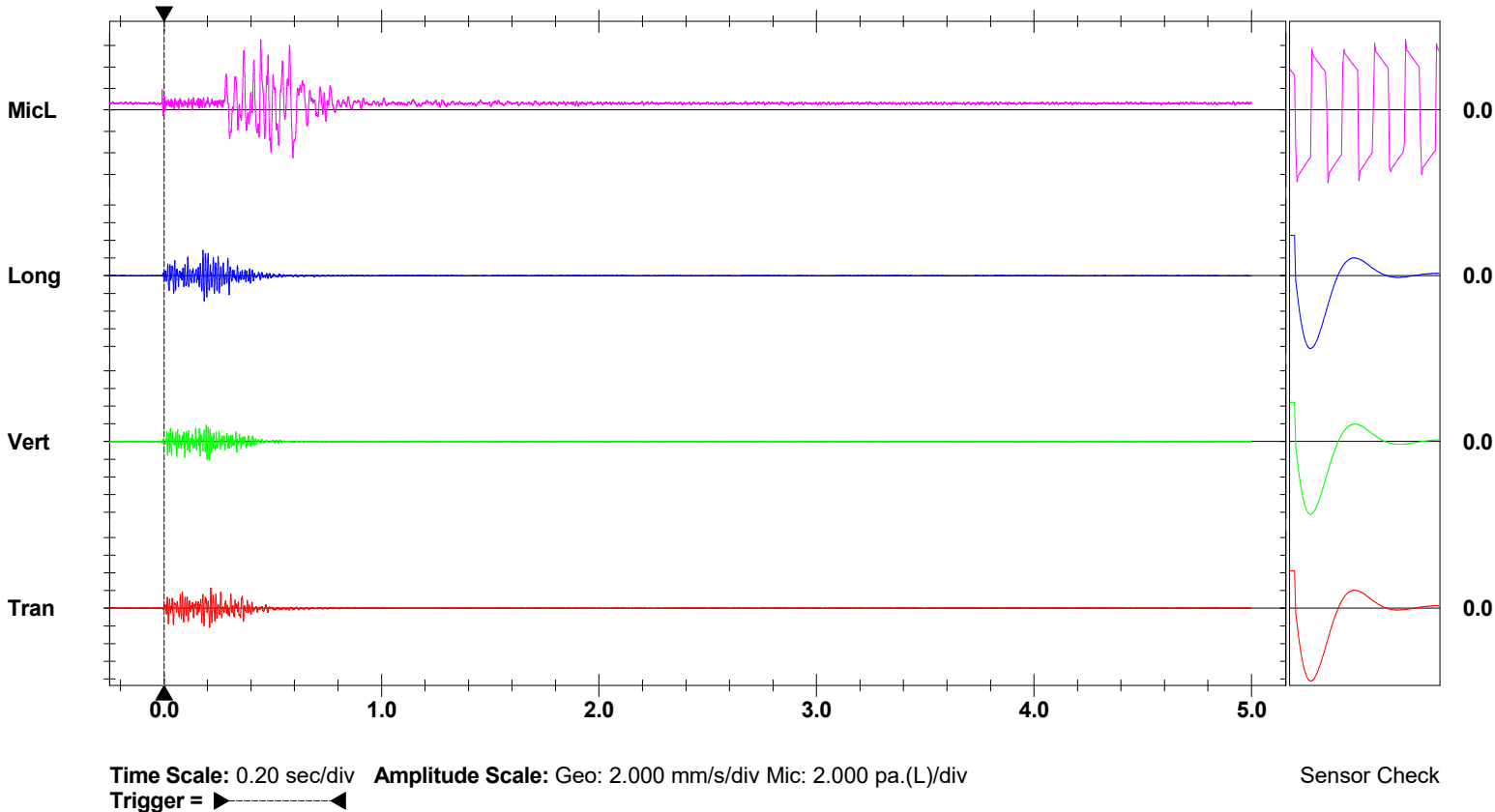
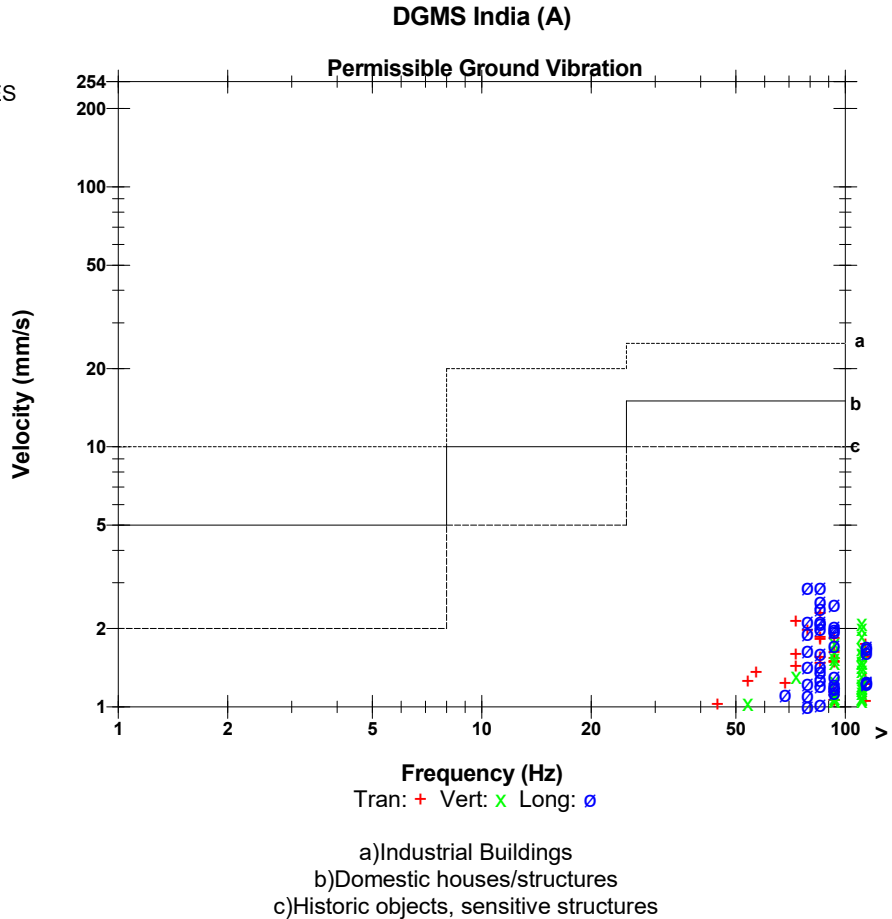
**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100312.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

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

**Microphone** Linear Weighting  
**PSPL** 110.3 dB(L) at 0.445 sec  
**ZC Freq** 27 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1224 mv )

	Tran	Vert	Long	
PPV	2.294	2.104	2.901	mm/s
ZC Freq	85	128	79	Hz
Time (Rel. to Trig)	0.215	0.208	0.185	sec
Peak Acceleration	0.163	0.166	0.163	g
Peak Displacement	0.004	0.003	0.006	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.3	7.3	7.3	Hz
Overswing Ratio	4.1	4.2	4.1	

**Peak Vector Sum** 3.666 mm/s at 0.185 sec

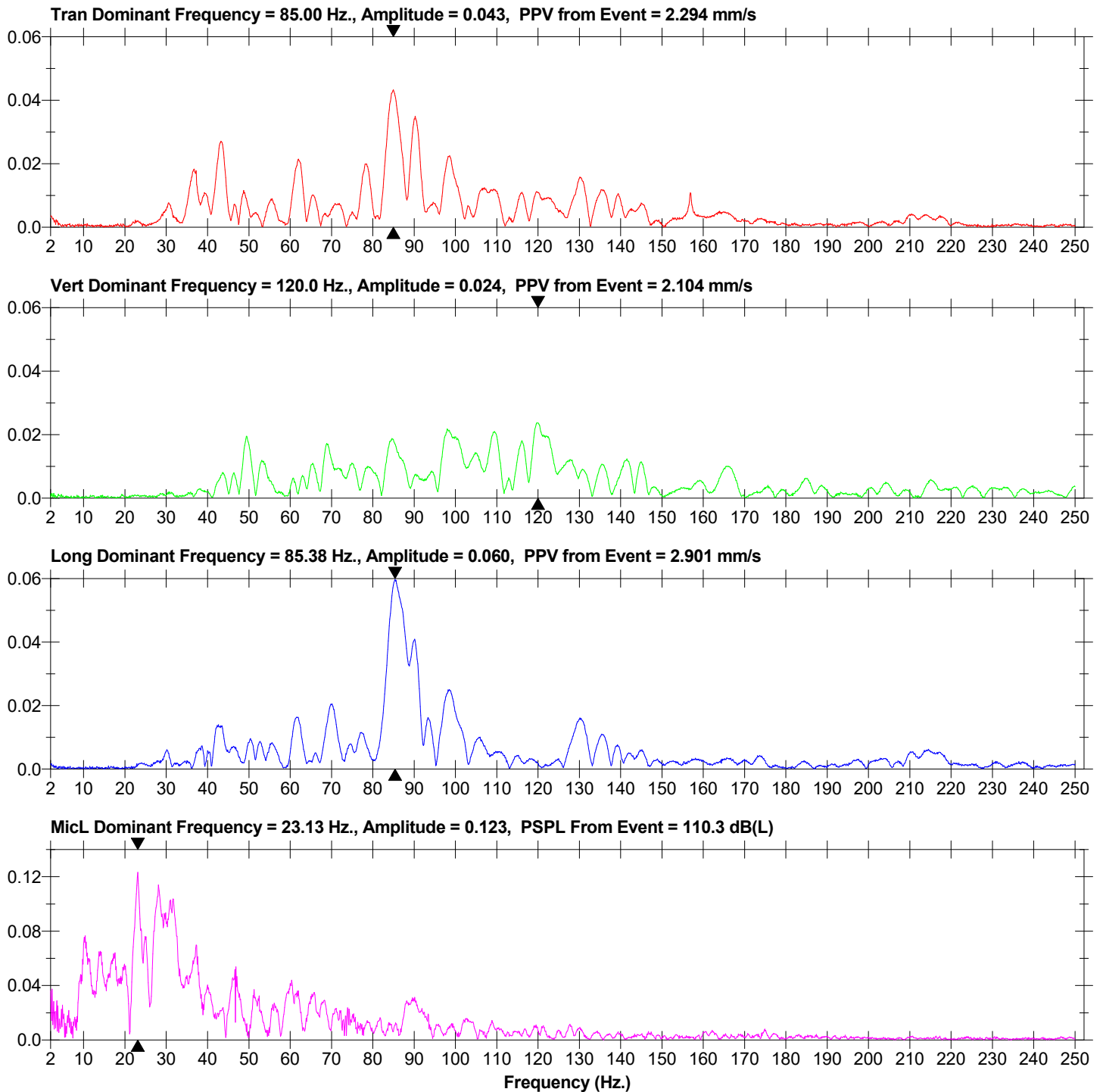


**Date/Time** Long at 10:03:12 September 20, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 2048 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100312.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

### Notes

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



**Date/Time** Long at 10:05:31 September 20, 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  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

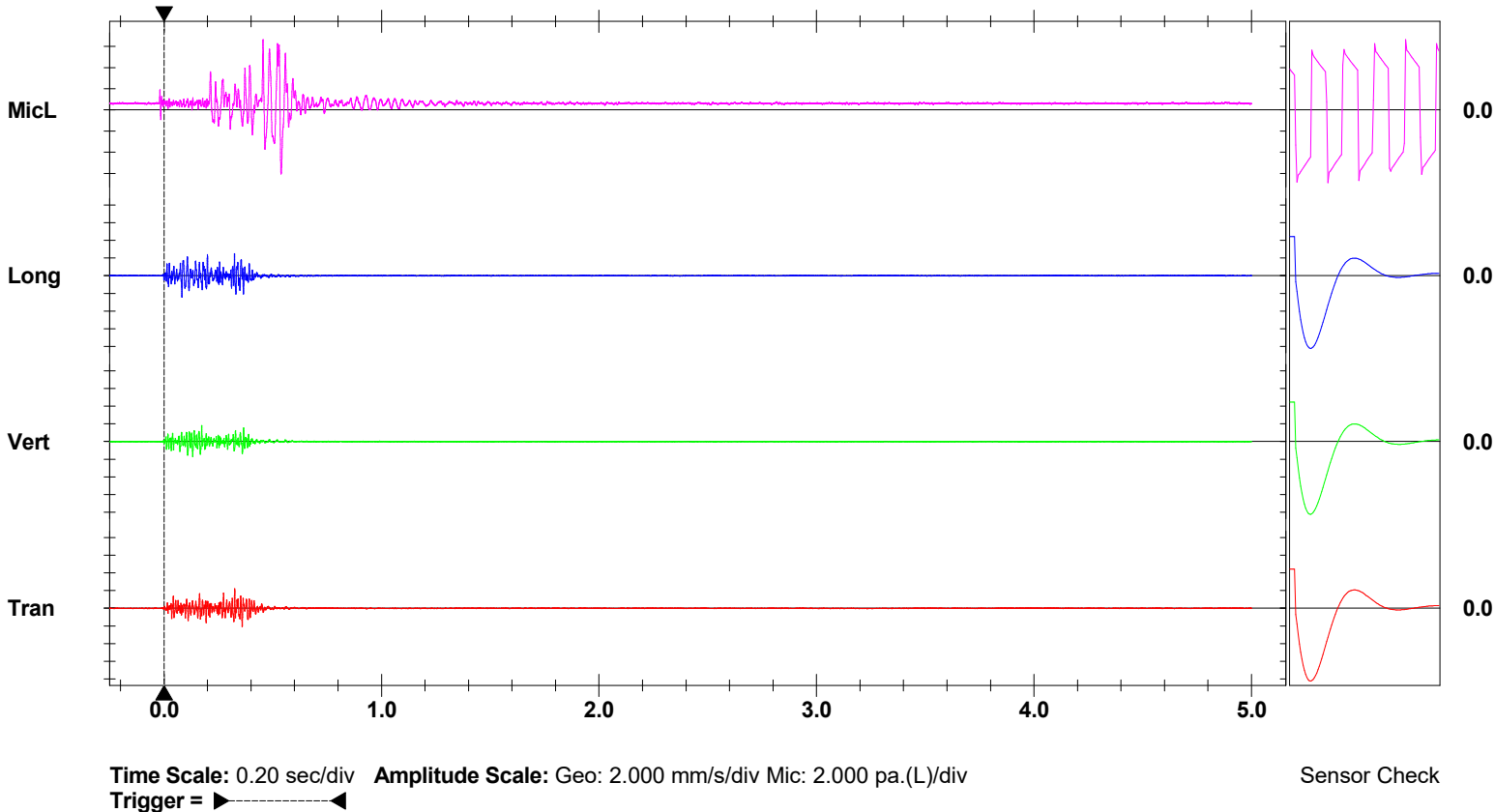
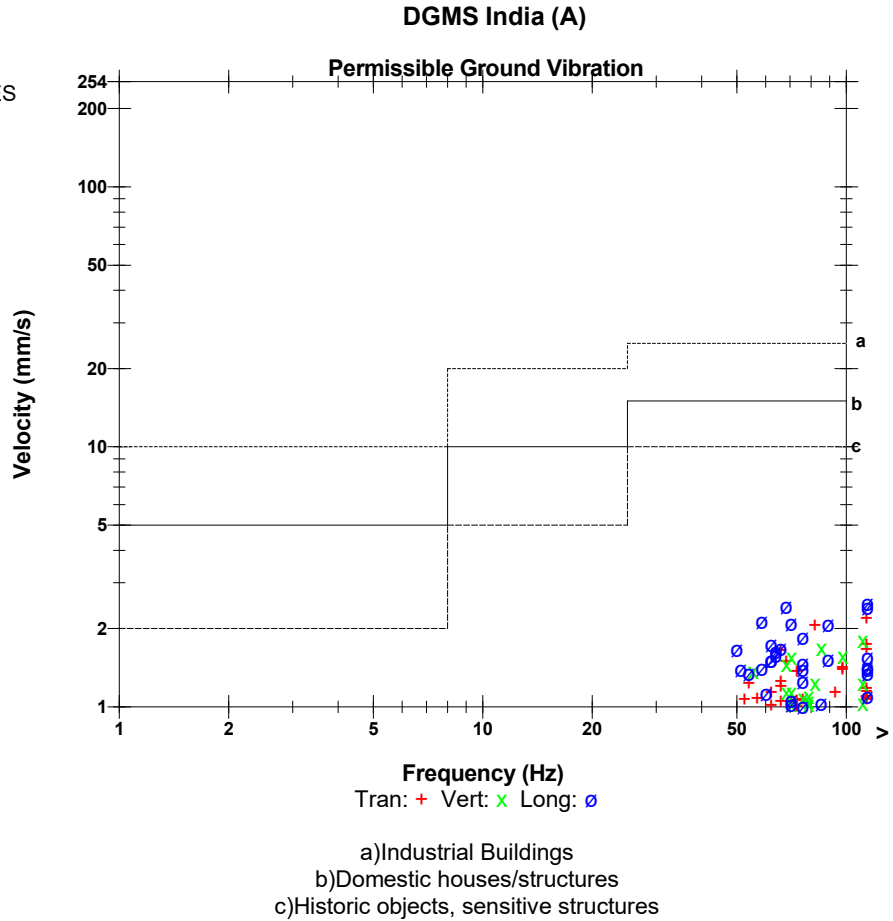
**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100531.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

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

**Microphone** Linear Weighting  
**PSPL** 110.4 dB(L) at 0.455 sec  
**ZC Freq** 11.8 Hz  
**Channel Test** Passed (Freq = 19.7 Hz Amp = 1216 mv )

	Tran	Vert	Long	
PPV	2.207	1.805	2.514	mm/s
ZC Freq	120	120	114	Hz
Time (Rel. to Trig)	0.325	0.173	0.324	sec
Peak Acceleration	0.165	0.135	0.171	g
Peak Displacement	0.003	0.003	0.005	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.3	7.3	Hz
Overswing Ratio	4.0	4.2	4.2	

**Peak Vector Sum** 3.145 mm/s at 0.324 sec

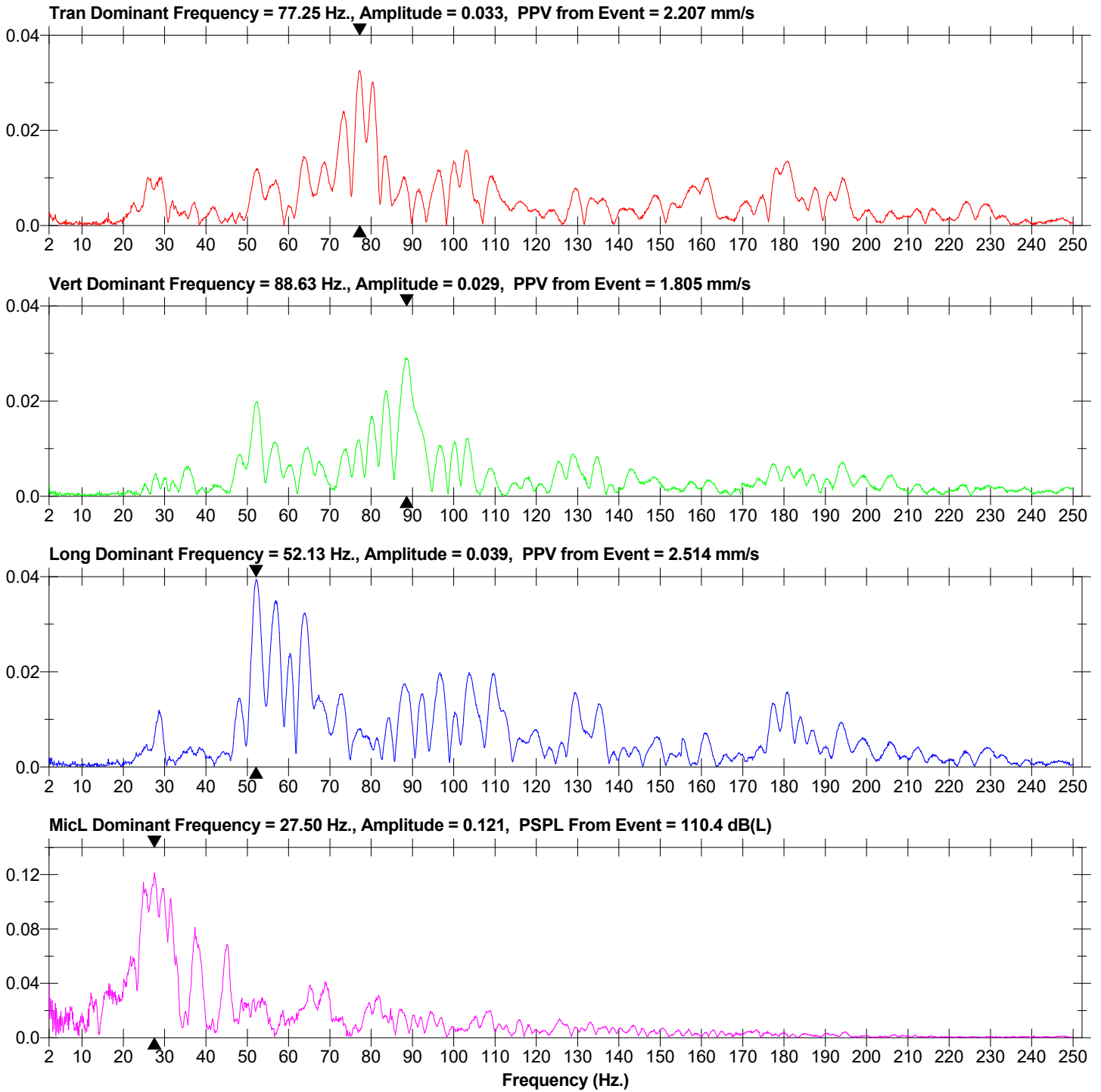


**Date/Time** Long at 10:05:31 September 20, 2023  
**Trigger Source** Geo: 0.127 mm/s, Mic: 100.00 dB(L)  
**Range** Geo: 254.0 mm/s  
**Record Time** 5.0 sec at 4096 sps  
**Job Number:** 1  
**Operator/Setup:** Operator/factory.MMB

**Serial Number** UM18455 V 10-90FB Micromate ISEE  
**Battery Level** 3.8 Volts  
**Unit Calibration** November 18, 2021 by UES New Delhi  
**File Name** UM18455\_20230920100531.IDFW  
**Scaled Distance** 106.5 (89.1 m, 0.7 kg)

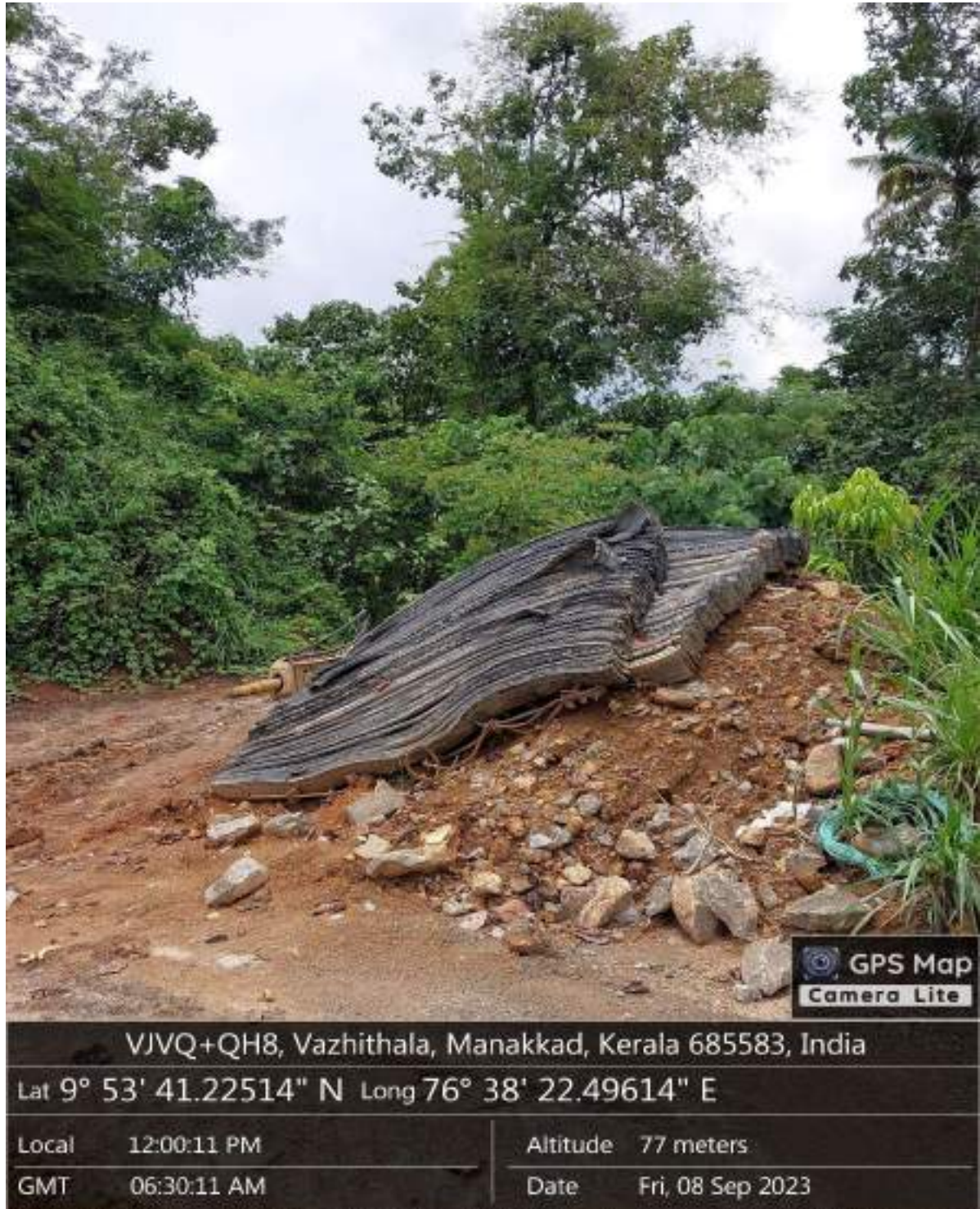
**Notes**

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



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 4**



***Blasting Mats***



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 5**



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



***Rainwater Harvesting Pond***

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 6**

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

***Environment Monitoring Cell***

23<sup>rd</sup> Meeting of the Environment Monitoring Committee held on 07.06.2023 at 4 PM.

Minutes of the 22<sup>nd</sup> meeting are reviewed.

1. New water tanker purchased is in operation. So now there are two water sprinklers.
2. Two solar lights are installed in the newly tarred road from office to crusher.
3. Water cooler was installed and is in use.
4. "Chappath" constructed in the new tar road is filled with water & is effective.

New Points

1. Committee is informed that our lease is renewed till life of mine. The scheme of Mining is also approved till 03.10.2030.
2. Rainy season is starting. Road maintenance has to be done frequently. Mud Roads are to be taken much care.
3. Grass & shrubs are being planted at slopes of mud road to prevent soil erosion.
4. As agreed in scheme of Mining we will plant 300 saplings this rainy season.
5. Work at bottom bench is stopped. We have started filling with clay.
6. Bottom bench has to be fenced securely because we are storing rain water & clay also.
7. A "Binary View" point is demarcated behind canteen. A small shed is also fabricated.
8. A new weigh bridge is fabricated & installed. Legal Metrology department has to approve the same for 100 MT capacity.

- contd -

9. A lightning arrester has to be fixed over canteen building.
10. Garland drain near workshop was cleaned in view of coming monsoon.
11. Licences of all drivers to be rechecked.

Members:

1. Mr. Baly. P. Parlose
2. Mr. Joseph K.Y
3. Mr. Prasanth P.P
4. Mr. Jerry Joy
5. Mr John Peter.

Radjan

Prath

Jerry Joy

John Peter

(Somu Jose)

Head of Committee.

## 24<sup>th</sup> Meeting of the Environment Monitoring

Committee held on 08.08.23 at 3PM.

Minutes of the 23<sup>rd</sup> meeting are reviewed. Mud Roads are well maintained. Slope side is planted with shrubs & creepers. All these roads are well compacted.

We have purchased 600 saplings. About 150 ~~saplings~~ <sup>saplings</sup> are planted. Balance will be planted after start of rains.

Amazoy view for visitors is fabricated and installed. Proper fencing also provided.

New weigh bridge is calibrated by the Legal Metrology department. After receiving the approval certificate, our sales will be on the basis of tonnage.

Sanitation is received for the lightning arrester over canteen. Work is under progress.

Licences of all drivers were checked and found all valid.

### New Points -

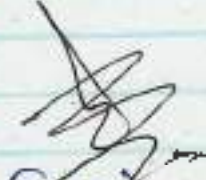
1. Bottom bench Fencing to be done.
2. Management is planning for expansion of lease area. Survey of land etc is under progress to demarcate a safe lease area.
3. Medical Examination of the balance employees are to be arranged. Few changes (additions & examinations) are incorporated in the new forms.
4. M/s Orica Exel is supplying high quality NONEL which produce less noise & vibration. We have started using it from today though the cost is very high.

4. Hepatitis B preventive vaccination drive was organised with the assistance of PHC (Primary Health Centre) of Govt. of Kerala. It is administered as in 3 doses. First dose was received by 54 ~~5~~ employees. Second dose vaccination is going on.

Members.

1. Mr. Baly. P. Parlose
2. Mr. Joseph KY
3. Mr. Prasanth P.P.
4. Mr. Somy Joy
5. Mr. John Peter.

-   
 -   
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 - 

  
 (Somy Jose)

Head of Committee.

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 7**



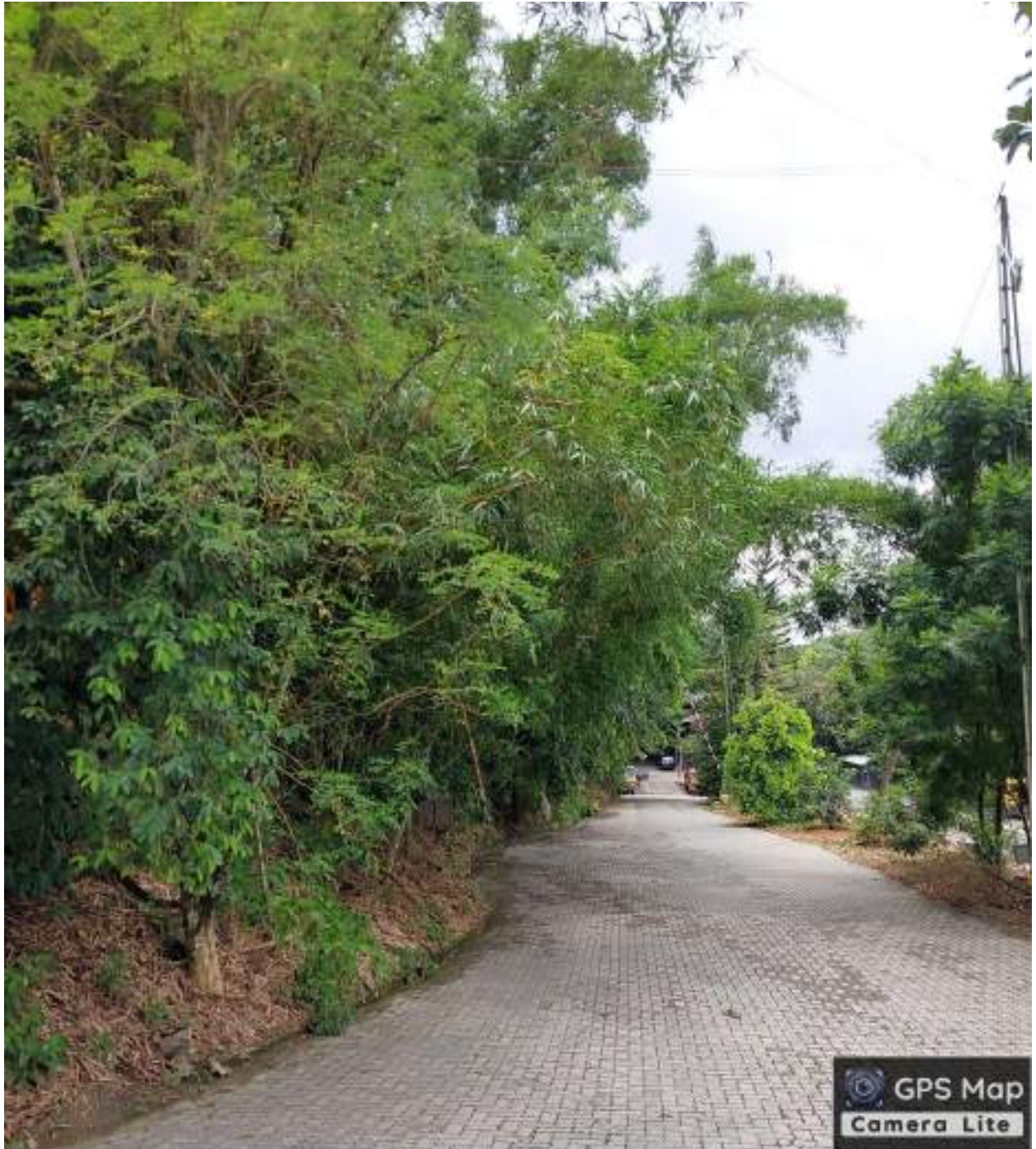


*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



**Access Roads**

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



VJVQ+QH8, Vazhithala, Manakkad, Kerala 685583, India

Lat 9° 53' 43.66234" N Long 76° 38' 21.46952" E

Local 12:33:07 PM

Altitude 77 meters

GMT 07:03:07 AM

Date Fri, 08 Sep 2023

*Access Roads*

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



**Access Roads**

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 8**



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



*Solar Lights*

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 9**



*Water Tanker with Sprinkler*

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*





*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 10**



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



GPS Map  
Camera Lite

VJVQ+QH8, Vazhithala, Manakkad, Kerala 685583, India

Lat 9° 53' 46.8577" N Long 76° 38' 26.17091" E

Local 10:33:52 AM

Altitude 65 meters

GMT 05:03:52 AM

Date Fri, 08 Sep 2023

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



VJPG+R65, SH42, Marika, Kerala 686662, India	
Lat 9° 53' 43.57219" N Long 76° 38' 21.27077" E	
Local	12:33:26 PM
Altitude	44 meters
GMT	07:03:26 AM
Date	Fri, 08 Sep 2023

*Plantation*

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 11**



VJVQ+QH8, Vazhithala, Manakkad, Kerala 685583, India

Lat 9° 53' 36.65576" N Long 76° 38' 23.65804" E

Local 11:22:57 AM

Altitude 90 meters

GMT 05:52:57 AM

Date Fri, 08 Sep 2023

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



VJVQ+QH8, Vazhithala, Manakkad, Kerala 685583, India

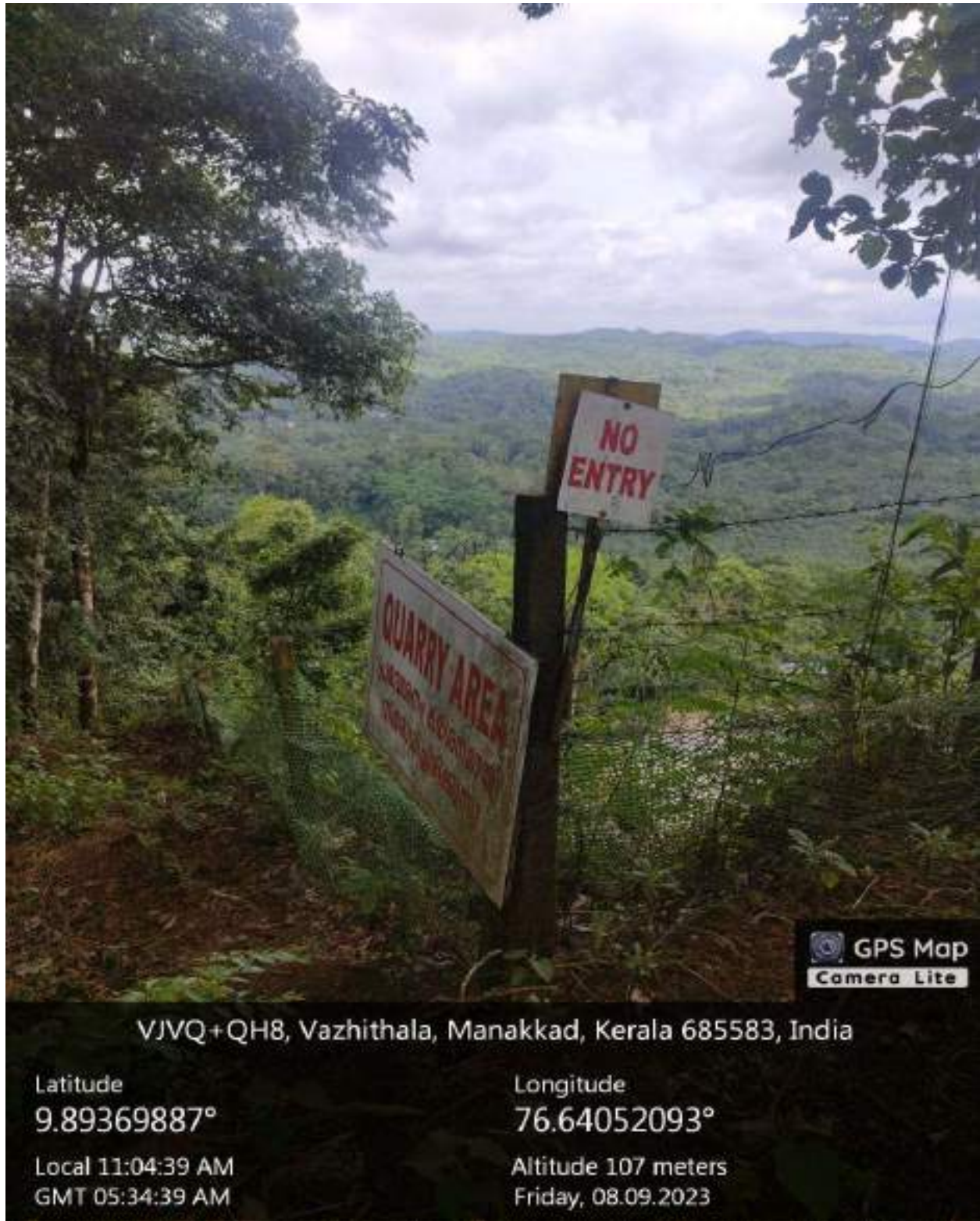
Latitude  
9.89377997°

Local 11:03:18 AM  
GMT 05:33:18 AM

Longitude  
76.64069123°

Altitude 107 meters  
Friday, 08.09.2023

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



*Fencing and boundary pillars*

**Blasting Sign Board**



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



***Blasting Timings***



**Sign Boards**



## अनुज्ञापति प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापति

Licence to possess : (c) for use, explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञापति सं. (Licence No.): E/SC/KL/22/1730(E72220)

वार्षिक फीस रुपए (Annual Fee Rs): 2400/-



1. Licence is hereby granted to

George Kolhuparambil, Proprietor (अधिभागी / Occupier : George Kolhuparambil), M/s. United Granites &amp; Metals, Vazhithala P.O., Thodupuzha,, Town/Village - Vazhithala, District-IDUKKI, State- Kerala, Pincode - 685588

को अनुज्ञापति अनुदत्त की जाती है।

2. अनुज्ञापतिधारी की प्रास्थिति | Status of licensee : Proprietorship Firm

3. अनुज्ञापति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

possess for use of Detonators, Safety Fuse, Nitrate Mixture, - के उपयोग के लिए

4. अनुज्ञापति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र Sr. No.	नाम और विवरण Name and Description	वर्ग और प्रभाग Class & Division	उप-प्रभाग Sub-division	मात्रा किसी एक समय में Quantity at any one time
1.	Nitrate Mixture	2,0	0	250 Kg.
2.	Detonators	6,3	0	5000 Nos.
3.	Safety Fuse	6,1	0	2000 Mtrs

(ख) किसी एक कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापति के लिए]

(b) Quantity of explosives to be purchased in a calendar month [applicable for licence under article 3 (b) and (c)] : 20 times as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापति परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing (s) :

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/1730  
(E72220)  
दिनांक (Dated) 01/04/2015

6. अनुज्ञापति 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 (Thodupuzha Taluk)  
जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode) 685588  
दूरभाष (Phone) ई. मेल (E-Mail) फैक्स (Fax)

7. अनुज्ञापति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

Constructed magazine for explosives and detonator as per Specification 2 of Schedule VII of Explosives Rules, 2008.

8. अनुज्ञापति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों 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.
- अनुज्ञापति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापति की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापति तारीख 31 मार्च 2019 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2019.

यह अनुज्ञापति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII के अधीन तथा उपबंधित इस अनुज्ञापति की शर्तों का अधिक्रमण करने या यदि अनुज्ञापति परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंज्ञित 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.

Sd/-

तारीख | The Date - 01/04/2015

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

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/09/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 09/11/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 29/06/2018

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीनीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
31/01/2022	31/03/2027	Dy. Chief Controller of Explosives, Ernakulam

संयुक्त उप मुख्य विस्फोटक नियंत्रक  
For Deputy Chief Controller of Explosives

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

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

(सेट VIII | Set VIII)

मैगजीन में वर्ग 1,2,3,4,5,6, और 7 के विस्फोटकों को बिक्री या प्रयोग हेतु रखने के लिए प्ररूप एत.ई. 3 | अनुच्छेद 3 (ख) से (ग) में मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा प्रदान किए जाने वाले अनुज्ञापति सं. E/SC/KL/22/1730(E72220) की शर्तें निम्नलिखित हैं।  
The following are the conditions of licence number E/SC/KL/22/1730(E72220) 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।  
The quantity of explosives on the premises at any one time shall not exceed the licensable capacity.
- विस्फोटकों के भंडारण के लिए प्रयुक्त होने वाली मैगजीन अनुसूची III और अनुज्ञापति के उपाबंध में विनिर्दिष्ट सुरक्षा दूरी बनाए रखना होगा।  
The magazine used for storage of explosives shall maintain safety distance specified in Schedule III and annexure to the licence.
- मैगजीन का प्रयोग उन सभी विस्फोटकों के, जो इस अनुज्ञापति में विनिर्दिष्ट है, रखे जाने के लिए और ऐसे रखे जाने से संबद्ध आधान या औजार या उपकरणों के रखे जाने के लिए ही किया जाएगा; अन्यथा नहीं।  
The magazine shall be used only for keeping all explosives specified in this licence and of receptacles for, or tools or implements for work connected with the keeping of such explosives.
- पैकजों को खोलने का कार्य और विस्फोटकों को तोलने 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, परस्पर 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 -  
(प) 2 (नाइट्रेट मिश्रण), वर्ग 3 (नाइट्रो योगिक) के विभिन्न विस्फोटक, वर्ग 6 प्रथम प्रभाग के अंतर्गत आने वाले सुरक्षा पत्तीते और वर्ग 6 प्रभाग 2 के अंतर्गत आनेवाले विस्फोटक प्रेरक पत्तीते, जिनमें कोई खुला लोहा या इस्पात नहीं है, एक दूसरे के साथ बिना किसी मध्यवर्ती विभाजक या स्थापन के रखे जा सकते हैं।  
(ड) वर्ग 6 प्रभाग 3 के अंतर्गत आनेवाले विस्फोटक प्रेरक अलग रखे जाएंगे।  
(च) वर्ग 1 के अंतर्गत आने वाले 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, 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 ;  
(e) 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 विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात सिवाय अनुज्ञापन प्राधिकारी की विशेष मंजूरी के मैगजीन 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 of their manufacture except with the special sanction of licensing authority.
- वर्ग 3 (नाइट्रो योगिक) के विस्फोटकों को, उनके विनिर्माण की तारीख से एक वर्ष बीत जाने के पश्चात 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 मंजूरी के अंतर्गत आनेवाली अवधि दर्शित की गई हो और ऐसे प्रमाणपत्र के अनुज्ञापिधारी अपने पास रखेगा और मांग की जाने पर प्रस्तुत करेगा।  
(ii) जब कोई विस्फोटक मानक शुद्धता का न रह जाने के कारण या द्रवणीकरण या नाइट्रो ग्लाइसीरिन या द्रव नाइट्रो योगिक के निकल जाने के विह्व प्रकट होने के कारण मैगजीन में भण्डारित किए जाने के उपयुक्त नहीं रह जाता है तो अनुज्ञापिधारी अपने ही व्यय पर ऐसे विस्फोटक के निपटारे के लिए ऐसे निदेशों का अनुपालन करेगा जो मुख्य नियंत्रक या विस्फोटक नियंत्रक जारी करे।  
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 बेंचे, शेल्फों और उसकी फिटिंग का इस प्रकार सन्निर्माण किया जाएगा या उन्हें इस प्रकार अंतर्गत या अवरित किया जाएगा कि विस्फोटक का किसी लोहे या इस्पात के साथ संपर्क रोका जा सके। भीतरी भाग में लगी बेंचे, शेल्फें और फिटिंग यथासाध्य ध्रित से मुक्त एवं साफ रखे जाएंगे तथा ऐसे विस्फोटक, जो जल से खतरनाक रूप में प्रभावित हो सकते हैं, इस बाबत सम्यक सावधानी बरती जाएगी कि वहां कोई जल मौजूद न रहे; परंतु किसी लोहे या इस्पात के खुले होने के विरुद्ध सावधानी से संबंधित इस शर्त का वह भाग ऐसे किसी भवन में बाधेकर नहीं होगा जिसमें वर्ग 6 (गोला बारूद) के प्रथम के विस्फोटक से भिन्न कोई विस्फोटक रखा गया है।  
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 kept.
- यदि तडित चालक का परीक्षण विस्फोटक नियंत्रक करता है तो अनुज्ञापिधारी ऐसे परीक्षण के लिए विहित फीस का सदाय करेगा यदि परीक्षण असमाधानकारी साबित होता है तो उतनी ही फीस अनुज्ञापिधारी द्वारा पश्चातवर्ती प्रत्येक परीक्षण के लिए तब तक दी जाती रहेगी जब तक कि परीक्षण अधिकारी तडित चालक को समाधानप्रद घोषित नहीं कर देता; परंतु किसी एक परीक्षण के लिए देय फीस किसी एक दिन के दौरान किसी चालक के किए गए सभी परीक्षणों के लिए प्रभार्य होगा; परंतु यह और कि यदि दो या अधिक तडित चालक एक ही मैगजीन से संबद्ध 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.

10. उपयुक्त तथा जेब रहित कार्यकरण बरतनी, उपयुक्त जूतों के प्रयोग द्वारा तथा तलाशी लेकर या अन्यथा अथवा ऐसे किन्हीं साधनों द्वारा इस बाबत सम्यक उपबंध किया जाएगा कि फैक्ट्री परिसर में अग्नि, दियासलाई अथवा ऐसी कोई वस्तुएं 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 अपकर्जन 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 fire, 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.
11. अनुज्ञापिधारी प्ररूप आर.ई.-3 और आर.ई.-4 या आर.ई.-5, जैसी स्थिति हो, में सभी विस्फोटकों का अभिलेख और लेखा रखेगा और विस्फोटक नियम, 2008 के अधीन प्राधिकृत किसी भी अधिकारी के समक्ष उसके द्वारा ऐसा करने की मांग की जाने पर स्टाक पुस्तक और अभिलेख प्रस्तुत करेगा । स्टाक पुस्तक विहित प्रोफार्मा में पूरा 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.
12. परिसरों में कोई परिवर्तन या तब्दीली अनुज्ञापन प्राधिकारी के पूर्वानुमोदन बिना नहीं की जाएगी और अनुज्ञापिधारी ऐसी किसी शर्त का अनुपालन करेगा जो इस निमित्त अनुज्ञापन प्राधिकारी विनिर्दिष्ट करे ।  
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.
13. मैगजीन 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 अनुज्ञापिधारी इस बात की सूचना अनुज्ञापन 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.  
मैगजीन का अनुज्ञापिधारी 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.
14. यदि सुरक्षा दूरी का कोई अधिक्रमण होता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को आवश्यक सलाह और कार्यवाही के लिए तुरंत दी जाएगी ।  
Any encroachment of the safety distance shall be immediately communicated to the licensing authority for necessary advice and action.
15. यदि कोई विस्फोटक विनष्ट हुआ अथवा अनुपयोगी जाया जाता है तो उसकी सूचना अनुज्ञापन प्राधिकारी को, सलाह प्राप्त करने के लिए, तुरंत दी जाएगी ।  
The licensing authority shall be immediately informed for advice if any explosive is found deteriorated or unserviceable.
16. विस्फोटकों के पैकेटों के चढ़े इस प्रकार लगाए जाएंगे कि कम से कम एक व्यक्ति भण्डार किए गए सभी पैकेजों की हालत की जांच करने और प्रत्येक पैकेज की विनिर्माण विधिस्थितियों 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 ओहम 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 शुष्क घास या झाड़ी या ज्वलनशील सामग्री नहीं रहने दी जाएगी ।  
A distance of 15 meters surrounding the magazine or store house shall be kept clear of dried grass or bush or flammable materials.
18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी ।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा ।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेजों को शीघ्रतिशीघ्र वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा ।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारियों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए ।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञात परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्यक्तः 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.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारक को अनुज्ञात परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई मरम्मत या परिवर्तन 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, अनुज्ञापिधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को 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 licence shall execute the recommendations and report compliance within the period specified by such authority.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञात फैक्टरी या कंपनी से प्राधिकृत विस्फोटक आतिशबाजी या सुरक्षा पल्लित खरीदेगा ।

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 चार मीटर की दूरी पर है, 125 डी.बी.(ए1) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;  
(ख) श्रृंखला (बुड़े हुए पटाखा) को गठन करने वाले व्यक्तिगत पटाखों के लिए उपर्युक्त उल्लिखित सीमा 5 लॉग<sub>10</sub>(N) डी.बी. (सी) पी.के. प्रतिबंधित होंगे;  
The possession and sale of fire-crackers generating noise level exceeding:  
a) 125 dB(A) 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 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को 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.

**अतिरिक्त शर्तें / Additional Conditions :**

1. अनुज्ञापनप्राप्त विदेशी मूल के आतिशबाजी को न प्रदर्शित करेगा, न रखेगा और न ही उसकी बिक्री करेगा। The licensee shall not exhibit, possess and sell fireworks of foreign origin.

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

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

कृते उप मुख्य विस्फोटक नियंत्रक  
For Deputy Chief Controller of Explosives  
एरनाकुलम Ernakulam



**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/22/1730(E72220) in form LE-3 granted to George Kolhuparambil, Proprietor, M/s. United Granites & Metals, Vazhithala P.O., Thodupuzha,, Kerala-685588 .

Type of Structure(s)		Safety distances meters	
<b>Inside Safety Distances(ISD)</b>			
1	Room or Workshop used in Connection with the Magazine	M	U/M
2	Any other Explosives Magazine or store House or Factory of the Applicant	16	24
3	Magazine Office		
<b>Middle Safety Distances(MSD)</b>			
4	Magazine Keeper's or Chowkidar's Dwelling house		
5	Railway including Minerals and Private Railways		
6	Canal (in active use) or other navigable water		
7	Dock or Pier or Jetty		
8	Public Highway or Public Road		45
9	Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10	River Embankment or Sea Embankment or Public Well		
11	Reservoir or Bounded tank/rope way		
12	Windmill or Solar panel for Power Generation		
<b>Outside Safety Distances(OSD)</b>			
13	Dwelling House		
14	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, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17	Factory		
18	Buildings or Works used for the Storage in Bulk of Petroleum, Spirit, gas, or other inflammable or hazardous substances		
19	Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		64
20	Aerodrome		
21	Furnace, Kiln or Chimney		
22	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		
<b>Overhead Electric lines</b>			
27	Electric Power over head Transmission Lines above 440V		68
28	Electric Power over head Transmission Lines upto 440V		15

The Date : 01/04/2015

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 25/09/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 09/11/2017
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 20/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 23/03/2018
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 29/06/2018

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

  
For Joint Chief Controller of Explosives  
South Circle, Chennai

ഇന്ത്യയിലെ ഉപ മുഖ്യ വിस्ഫോടക് കൺട്രോളർ  
For Deputy Chief Controller of Explosives  
എറണാകുളം Ernakulam







भारत सरकार | Government of India

वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)

पूर्व नाम- विस्फोटक विभाग | Formerly- Department of Explosives

केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

CSEZ पी.ओ.कक्कनाड कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037

फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

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

संख्या (No.): E/SC/KL/22/1730(E72220)

दिनांक (Date): 31/01/2022

सेवा में | To,

George Kolluparambil, Proprietor,

M/s. United Granites & Metals, Vazhithala P.O., Thodupuzha, Town/Village - Vazhithala

District-IDUKKI, State-Kerala, Pincode - 685388

विषय:

Survey No.357/3, Block No. 11, ग्राम Manakkadu (v), Thodupuzha Taluk, जिला IDUKKI, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/1730(E72220) के नवीनीकरण संदर्भ में।

Subject:

Possession for Use of of Explosives from magazine situated at Survey No.:357/3, Block No. 11, Manakkadu (v), Thodupuzha Taluk, Dist. IDUKKI, Kerala -Licence No.: E/SC/KL/22/1730(E72220) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

महोदय | Sir,

आपका उपर्युक्त विषय पर पत्र संख्या N।। दिनांक 19/01/2022 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्ररूप LE-3 में जारी अनुज्ञप्ति 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-3 of Explosives Rules, 2008 is forwarded herewith.

Conditions:

USE OF EXPLOSIVES IN QUARRY SHALL BE STARTED ONLY AFTER GRANT OF QUARRYING LEASE FROM THE DIRECTOR OF MINES & GEOLOGY. PLEASE NOTE THAT THE USE OF EXPLOSIVES IN THE QUARRIES SHALL BE AS PER THE DIRECTION OIF THE DGMS, BANGALORE AS REQUIRED UNDER THE MINES ACT 1952 AND METTALIFEROUS MINES REGULATIONS 1961

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-1 में विधिबद्ध पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति 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।  
Original 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.
- विस्फोटकों के क्रय हेतु आरई-11 में मांगपत्र (इंडेंट) आपूर्तिकर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Indent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office.(Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में आरई-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (आतिशबाजी गोदाम के लिए लागू नहीं)।  
Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter.(Not applicable for fireworks store house)
- सभी ब्लास्टिंग ऑपरेशन एक सक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। हालांकि, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग ऑपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।  
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Your's faithfully

(पी.के.राणा | Dr. P. K. Rana)

विस्फोटक नियंत्रक | Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives

कृते उप मुकोच्ची | Ernakulam

For Deputy Chief Controller of Explosives

प्रतिरूप प्रेषित | Copy Forwarded to:

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

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

(अधिक 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.**

## अनुज्ञापिते प्ररूप एल. ई.-3 | LICENCE FORM LE-3

(विस्फोटक नियम, 2008 की अनुसूची 4 के भाग 1 के अनुच्छेद 3(क) से (घ) देखिए।)

(See article 3(a) to (d) of Part 1 of Schedule IV of Explosives Rules, 2008)

(ग) उपयोग के लिए एक समय पर वर्ग 1,2,3,4,5 या वर्ग 7 के विस्फोटक या किसी मैगजीन में वर्ग 6 के विस्फोटक रखने के लिए अनुज्ञापिते

Licence to possess : (c) for use,explosives of class 1, 2,3,4,5,6 or 7 in a magazine

अनुज्ञापिते सं. (Licence No.) : E/SC/KL/22/811(E38112)

वार्षिक फीस रूपए (Annual Fee Rs): 2400/-



Licence  
Photo w

1. Licence is hereby granted to

Shri George Kochuparambil (अधिभोगी / Occupier : Shri George Kochuparambil), M/s.United Granites & Metal,Vazhithala P.O, Idukki,Kerala., Town/Village - , District-IDUKKI, State-Kerala, Pincode -

को अनुज्ञापिते अनुदत्त की जाती है।

2. अनुज्ञापितेधारी का प्रास्थिति | Status of licensee : **Individual**

3. अनुज्ञापिते 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

4. अनुज्ञापिते विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: -- (क) (a)

क्र. सं.	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 कलेंडर मास में खरीदे जाने वाले विस्फोटक की मात्रा [अनुच्छेद 3(ख) और (ग) के अधीन अनुज्ञापिते के लिए]

(b) Quantity of explosives to be purchased in a calendar month[applicable for licence under article 3(b) and (c)] :

20 times  
as above.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापिते परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing(s) :

रेखाचित्र क्र. (Drawing No.) E/SC/KL/22/811  
(E38112)  
दिनांक (Dated) 05/05/2004

6. अनुज्ञापिते परिसर निम्नलिखित पते पर स्थित है। The licensed premises are situated at following address:

Survey No(s). 519/1-13 , ग्राम (Town/Village) : Manakkadu,Thodupuzha  
जिला (District) IDUKKI राज्य (State) Kerala पिनकोड (Pincode)  
दूरभाष (Phone) ई. मेल (E-Mail) फेक्स (Fax)

7. अनुज्ञापिते परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

NA

8. अनुज्ञापिते समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबद्धों 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.
- अनुज्ञापिते प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापिते की शर्तों और अतिरिक्त शर्तों।  
Conditions and Additional Conditions of this licence signed by the licensing authority.
- दूरी प्ररूप DE-2 | Distance Form DE-2.

9. यह अनुज्ञापिते तारीख 31 मार्च 2006 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2006.

यह अनुज्ञापिते, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट-VII 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 प्रतिसंकेत 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.

Sd/-

तारीख | The Date - 05/05/2004

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

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 27/12/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 04/03/2014

नवीनीकरण के पृष्ठांकन के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
06/02/2020	31/03/2025	Dy. Chief Controller of Explosives, Ernakulam Deputy Chief Controller of Explosives एरनाकुलम - Ernakulam

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

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






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

18. विस्फोटकों के प्रत्येक पैकेट की, जब उसे मैगजीन के भीतर लिया जा रहा हो, ठीक दशा जानने के लिए परीक्षा की जाएगी।  
Every package of explosive at the time of bringing inside the magazine shall be examined for its sound condition.
19. किसी मैगजीन / भंडारगृह में किसी एक समय में चार व्यक्तियों से अधिक को नहीं रहने दिया जाएगा।  
Not more than 4 persons shall be allowed inside the magazine or store house at any one time.
20. विस्फोटकों के खाली पैकेटों को शीघ्रतया वहां से हटा दिया जाएगा और नष्ट कर दिया जाएगा।  
Empty packages of the explosives shall be removed at the earliest and destroyed.
21. अनुज्ञापिधारी और कर्मचारीयों को परिसर के भीतर आपातकाल के दौरान की जाने वाली प्रक्रियाओं से अवगत होना चाहिए।  
The licensee and the employee shall be conversant with procedure to be taken during the emergency within the premises.
22. निरीक्षण या नमूना अधिकारी को सभी युक्तियुक्त समयों पर अनुज्ञत परिसर में अबाध रूप से पहुंचने दिया जाएगा और यह सुनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों और सुरक्षा स्थितियों को सम्मकतः 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.
23. यदि अनुज्ञापन प्राधिकारी या विस्फोटक नियंत्रक अनुज्ञापिधारक को अनुज्ञत परिसरों या मशीनरी, टूल या उपकरण में ऐसी कोई 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, अनुज्ञापिधारक सिफारिशों को निष्पादित करेगा और विनिर्दिष्ट अवधि के भीतर अनुपालन रिपोर्ट ऐसे प्राधिकारी को 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.
24. अनुज्ञापिधारी मैगजीन में रखने और बिक्री के लिए प्राधिकृत विस्फोटक सूची में उल्लिखित अनुज्ञत फैक्टरी या कंपनी से प्राधिकृत विस्फोटक / आतिशबाजी या सुरक्षा पत्ती खरीदेगा।  
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 चार मीटर की दूरी पर है, 125 डी.बी.(ए) या 145 डी.बी.(सी)पी.के. प्रतिबंधित होंगे;  
(ख) झुंझला (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;  
The possession and sale of fire-crackers generating noise level exceeding:  
a) 125 dB(A) 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 log<sub>10</sub> (N) dB, where N = number of crackers joined together.
26. आग या विस्फोट द्वारा दुर्घटना या नुकसान पटाखों की कमी या चोरी, तुरंत पास के पुलिस थाने और अनुज्ञापन प्राधिकारी और अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय को 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.

#### अतिरिक्त शर्तें / Additional Conditions :

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

  
कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
For Joint Chief Controller of Explosives  
दक्षिणवर्त, चेन्नै | South Circle, Chennai  
उप मुख्य विस्फोटक नियंत्रक  
Deputy Chief Controller of Explosives  
दक्षिणवर्त, चेन्नै | South Circle, Chennai






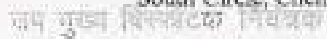
**Form DE-2**  
(See rule 113 of the Explosives Rules, 2008)  
(Distance Form to be attached to the licence)

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)	Safety distances meters	
	M	UM
<b>Inside Safety Distances(ISD)</b>		
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		
<b>Middle Safety Distances(MSD)</b>		
4 Magazine Keeper's or Chowkidar's Dwelling house		
5 Railway including Minerals and Private Railways		
6 Canal (in active use) or other navigable water		
7 Dock or Pier or Jetty		
8 Public Highway or Public Road		33
9 Private Road which is PRINCIPAL means of access to a Temple, Mosque, Church, Gurudwara or other places of worships, Hospital, College, School or Factory		
10 River Embankment or Sea Embankment or Public Well		
11 Reservoir or Bounded tank/rope way		
12 Windmillar or Solar panel for Power Generation		
<b>Outside Safety Distances(OSD)</b>		
13 Dwelling House		
14 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, School, Hospital, Theater, Cinema or other Building where the public are accustomed to assemble		
17 Factory		
18 Buildings or Works used for the Storage in Bulk of Petroleum, Sprit, gas, or other inflammable or hazardous substances		45
19 Building or Works used for Storage and Manufacture of Explosives or of articles which contain Explosives		
20 Aerodrome		
21 Furnace, Kiln or Chimney		
22 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		
<b>Overhead Electric lines</b>		
27 Electric Power over head Transmission Lines above 440V		45
28 Electric Power over head Transmission Lines upto 440V		15

The Date : 05/05/2004

  
For Joint Chief Controller of Explosives  
South Circle, Chennai

  
 Joint Chief Controller of Explosives  
 Ernekulam

**Amendments :**

- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 27/12/2011
- Amendment of Quantity of Explosives/Monthly Purchase Limit dated : 04/03/2014





भारत सरकार | Government of India  
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पिसो) | Petroleum & Explosives Safety Organisation (PESO)  
 पूर्व नाम: विस्फोटक विभाग | Formerly - Department of Explosives  
 केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kondrya Bhavan, Block C-2, 3rd Floor  
 CSEZ पी.ओ. कक्कनाड कोच्ची | CSEZ PO Kakkanaad Dist. Ernakulam Ernakulam 682037  
 फ़ोन (Phone):- 2427236 | फ़ैक्स (Fax):- 2427276  
 ई-मेल Email: dycc@emakulam@explosives.gov.in

17 Feb 2020

संख्या (No.): E/SC/KL/22/811(E38112)

दिनांक (Date): 06/02/2020

संबंध में | To,

Shri George Kochuparambil,  
 Agr. Central Granaries & Metal, Vachikulam P.O, Idukki, Kerala, Toren/Village -  
 District-IDUKKI, State-Kerala, Pincode -

विषय: Survey No(s) 519/1-13, ग्राम Manakkadu, Thodupuzha, जिला IDUKKI, राज्य Kerala में विस्फोटक के मैगजीन में उपयोग के लिए कब्जा हेतु विस्फोटक नियम, 2008 के अंतर्गत LE-3 में जारी अनुज्ञप्ति सं E/SC/KL/22/811(E38112) के नवीनीकरण संदर्भ में।

Subject: Possession for Use of Explosives from magazine situated at Survey No(s): 519/1-13, Manakkadu, Thodupuzha, Dist. IDUKKI, Kerala - Licence No.: E/SC/KL/22/811(E38112) granted in Form LE-3 of Explosives Rules, 2008 - Renewal regarding

प्रार्थना | Sir,

आपका उपरोक्त विषय पर पत्र संख्या No. दिनांक 29/01/2020 का संदर्भ ग्रहण करें। विस्फोटक नियम, 2008 के अंतर्गत प्रारूप LE-3 में जारी अनुज्ञप्ति दिनांक 31/3/2025 तक नवीनीकृत कर इस पत्र के साथ भेजी जा रही है।

Reference to your letter No. Nil dated: 29/01/2020, the subject license duly renewed upto 31/3/2025 and issued in Form LE-3 of Explosives Rules, 2008 is forwarded herewith.

अनुज्ञप्ति के आगामी नवीकरण हेतु कृपया निम्नलिखित दस्तावेज दिनांक 31/03/2025 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 31/3/2025.

- प्रारूप अर्द्ध-1 में विहित पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति शुल्को का, विस्फोटक नियम, 2008 के तहत ऑनलाइन आवेदन पोर्टल पर उपलब्ध ई-भुगतान सुविधा के माध्यम से लड़तेस 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।  
Original 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.
- विस्फोटकों के क्रय हेतु अर्द्ध-11 में मांगपत्र (इंटेंट) आर्गुनिर्कर्ता को दिया जाए और उसी की एक प्रति इस कार्यालय को भेजी जाए (अतिशयाजी गोदाम के लिए लागू नहीं है)।  
Intent for purchase of explosives shall be placed in RE-11 with the supplier and copy of the same shall be sent to this office. (Not applicable for fireworks store house)
- कृपया विस्फोटकों की त्रैमासिक विवरणी हर तिमाही के अंत में अर्द्ध-7 में प्रस्तुत की जाए। विवरणी इस कार्यालय के कार्यालय में आगामी तिमाही के 10 तारीख से पहले पहुंच जानी चाहिए (अतिशयाजी गोदाम के लिए लागू नहीं है)। Please submit quarterly returns of explosives in RE-7 at the end of every quarter so as to reach this office by 10th of the succeeding quarter. (Not applicable for fireworks store house)
- सभी ब्लास्टिंग ऑपरेशन एक संक्षम द्वारा की जाएगी जो उपरोक्त नियमों के तहत एक वैध शॉट फायर प्रमाणपत्र धारक हो। इसलिए, खान अधिनियम 1952 के अधीन आने वाले खानों में ब्लास्टिंग ऑपरेशन करने वाले ब्लास्टर की योग्यता उसी अधिनियम से निर्धारित हो।  
All blasting operations shall be carried out by a competent person holding a valid shot firer's permit granted under above rules. However, blasting operations in mines coming under the purview of the Mines Act 1952, the blaster shall have qualifications prescribed in the regulations framed under the said Act.

भवदीय | Yours faithfully

(आर. वेणुगोपाल | Dr. R. Venugopal)

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

Deputy Chief Controller of Explosives

Ernakulam

उप मुख्य विस्फोटक नियंत्रक | Deputy Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

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

(अधिक 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>)



भारत सरकार | 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, ब्लाक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor

CSEZ पी.ओ. कक्कनाड कोच्ची | CSEZ PO Kakknad Dist. Ernakulam Ernakulam 682037

फोन (Phone):- 2427286 | फैक्स (Fax):- 2427276

संख्या/ No. A/SC/CL/P3/14(A2264)

दिनांक / Dated : 01/02/2022

सेवा में / To,

GEORGE KOCHUPARAMBIL, Prop. M/s United Grants and Metal,

S.No.357/3, Block No.11, Manakkada Village, Theodupuzha Tk.,

Town/Village - Theodupuzha

Distt. 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, Manakkada, Distt. IDUKKI, State Kerala Licence No.: A/SC/CL/P3/14(A2264) granted in Form P-3 of Ammonium Nitrate Rules, 2012 - Renewal regarding

महोदय / Sir(s),

आपके पत्र संख्या NII दिनांक 19/01/2022 के सन्दर्भ में अमोनियम नाइट्रेट नियम 2012 के प्ररूप पी-3 में जारी विषयक अनुमति का दिनांक 31/3/2027 तक विधिवत नवीनीकृत कर आपको प्रेषित की जा रही है। कृपया अनुमति की पावती स्वीकार करें। / Reference to your letter No.: NII 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.

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

- विधिवत भर हुआ एवं हस्ताक्षरित प्ररूप-आर - 1 / Application in Form R-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुमति शुल्क का, अमोनियम नाइट्रेट नियम, 2012 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 Ammonium Nitrate Rules, 2012.
- मूल अनुमति पत्र अनुमोदित अरेखन / Original licence with approved plan.
- इस सम्बन्ध में कृपया अमोनियम नाइट्रेट नियम, 2012 के नियम 36 का भी सन्दर्भ लें। / In this connection, please also refer to Rule 36 of Ammonium Nitrate Rules, 2012.
- रशीन पासपोर्ट साइज के 6 फोटोग्राफ जिन पर समने की ओर काते रंग की अमिट स्टाही से अंकितस्पायर (अमोनियम नाइट्रेट नियम, 2012 के नियम 2 (C) के अन्तर्गत तथा परिभाषित) द्वारा विधिवत हस्ताक्षर 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 (C) of Ammonium Nitrate Rules,2012) 'in front' by 'black color indelible ink' (if not submitted).

संलग्नक / Enclosures :

भवदीय / Yours faithfully,

( पी.के.राणा ) | ( Dr. P. K. Rana )

विस्फोटक नियंत्रक | Controller of Explosives

For Dy. Chief Controller of Explosives

कृते उप मुख्य विस्फोटक कोच्ची

For Deputy Chief Controller of Explosives

एरनाकुलम Ernakulam

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

(स्टेट, शुल्क, एवं अन्य विवरणों के बारे में अधिक जानकारी हेतु कृपया संगठन का वेबसाइट <http://peso.gov.in> देखें। / For more information regarding status, fees and other details, please visit our web site <http://peso.gov.in>)

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

Faint header text, possibly containing a title or reference number.

First main paragraph of text, containing several lines of faintly legible content.

Second main paragraph of text, continuing the faintly legible content.

Third main paragraph of text, continuing the faintly legible content.

Fourth main paragraph of text, continuing the faintly legible content.

**अनुज्ञप्ति प्रारूप P-3**  
(अमोनियम नाइट्रेट नियम, 2012 की अनुसूची 1 की क्रम संख्या-3 और नियम 35 देखें)

**LICENCE FORM P-3**  
(See Sr.No.-3 of Schedule I and rule 35  
of Ammonium Nitrate Rules,2012 )

**विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु**  
**Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing**



अनुज्ञप्ती संख्या | Licence No. : A/SC/KL/P3/14(A2264)  
वार्षिक अनुज्ञप्ती शुल्क | Annual licence Fee Rs: 1000/-

अनुज्ञप्ति एतद्वारा जारी की जाती है : **GEORGE KOCHUPARAMBIL, Prop. M/s United Granites and Metals**  
Licence is hereby granted to : **KOCHUPARAMBIL )**  
**S.No.357/3, Block No.11, Manakkadu Village, Thodupuzha Tk.,**  
**शहर | Town - Thodupuzha**  
**जिला- IDUKKI , राज्य- Kerala , पिन कोड - 685588**  
**Phone -, Email -, फैक्स-**

1. अनुज्ञप्तिधारी का स्तर: **Individual**  
Status of licensee holder: **Individual**
2. अनुज्ञप्ति केवल निम्नलिखित प्रयोजन हेतु वैध है : विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु  
अनुज्ञप्ति  
Licence is valid only for the following purpose : Licence to possess for use of Ammonium Nitrate from a store house attached to explosives manufacturing unit (ANFO)
3. अनुज्ञप्ति अमोनियम नाइट्रेट की निम्नलिखित मात्रा के लिए वैध है :  
Licence is valid for the following quantity of Ammonium Nitrate:

नाम तथा विवरण Name and Description	किसी एक समय में मात्रा (कि.ग्रा.) Quantity at a time (Kg.)	किसी एक वित्तीय वर्ष में क्रय की जाने वाली अमोनियम नाइट्रेट की मात्रा(कि.ग्रा.) Quantity of Ammonium Nitrate to be purchased in a financial Year (Kg.)
Ammonium Nitrate (Solid)	35000	420000

4. अनुज्ञप्त परिसर निम्नलिखित आरेख(नॉ.) के अनुरूप होगा  
The licensed premises shall conform to the following drawing(s):  
**आरेखण संख्या | Drawing No : A/SC/KL/P3/14 (A2264) दिनांक | Dated : 09/11/2017**
5. अनुज्ञप्त परिसर निम्नलिखित पते पर स्थित है :  
The licensed premises are situated at following address:  
**Survey No. 357/3, Block No.11, शहर/गाँव | Town/Village : Manakkadu**  
**पुलिस स्टेशन | Police Station : Thodupuzha जिला | District : IDUKKI राज्य | State : Kerala**  
**पिन कोड | PinCode : 685588 फोन | Phone नंबर | E-Mail : फैक्स | Fax :**
6. अनुज्ञप्त परिसर में निम्नलिखित सुविधाएँ उपलब्ध हैं :  
The licensed premises consist of following facilities :  
**Consist of one store house .**
7. अनुज्ञप्ति, समय-समय पर यथा संशोधित विस्फोटक अधिनियम 1884, एवं उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 की शर्तें, अतिरिक्त शर्तें तथा निम्नलिखित उपबन्धों के अधीन जारी की जाती है  
(i)उक्त क्रम संख्या 5 में उल्लिखित आरेखण, जिसमें स्थल, निर्माण एवं अन्य विवरण दर्शाए गए हैं।  
(ii)अनुज्ञप्ति जारी करने वाले प्राधिकारी द्वारा हस्ताक्षरित अनुज्ञप्ति की शर्तें एवं अतिरिक्त शर्तें।  
  
The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Ammonium Nitrate Rules, 2012 framed there under and the conditions, additional conditions and Annexures.  
(i) Drawings (showing site, constructional and other details) as stated in serial No. 5 above.  
(ii) Conditions and Additional Conditions of this licence signed by the licence issuing authority.
8. यह अनुज्ञप्ति 31 मार्च 2022 तक वैध रहेगी।  
This licence shall remain valid till 31st day of March 2022

यह अनुज्ञप्ति विस्फोटक अधिनियम, 1884 या उसके अधीन बनाए गए अमोनियम नाइट्रेट नियम, 2012 या इस अनुज्ञप्ति की किसी शर्तों का उल्लंघन करने पर या यदि अनुज्ञप्त परिसर, आरेखण और उसके संलग्न उपावद्ध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलम्बित या प्रतिरद्घत की जा सकती है।

This licence is liable to be suspended or revoked for any violation of the Explosives Act 1884 or Ammonium Nitrate Rules, 2012 framed there under or the conditions of this license, if the licensed premises are not found conforming to the description shown in the plans and annexure attached hereto.

दिनांक | Date: 09/11/2017

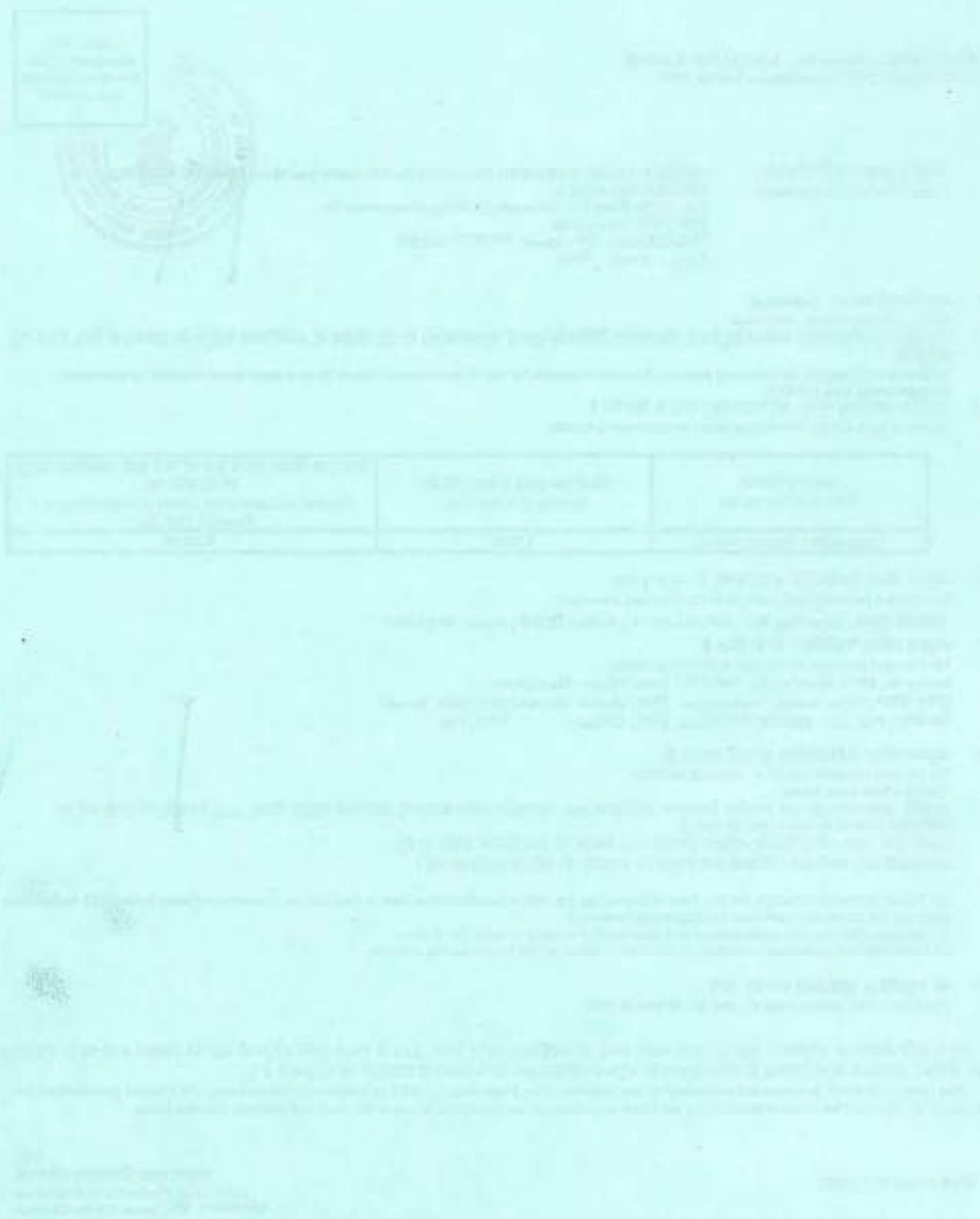
Sd/-  
संपुक्त मुख्य विस्फोटक निबंधक  
Joint Chief Controller of Explosives  
दक्षिण चक्र, चेन्नई | South Circle, Chennai

अनुज्ञापन नवीकरण के लिए पत्रांकन | Endorsement for renewal of licence.

नवीकरण की तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर Signature of licensing authority
01/02/2022	31/03/2027	Dy. Chief Controller of Explosives, Ernakulam

सांविधिक चेतावनी: अमोनियम नाइट्रेट कानून का दुरुपयोग कानूनी तौर पर गंभीर दण्डनीय अपराध है।  
 Statutory Warning : Misuse of Ammonium Nitrate shall constitute serious criminal offence under the law.

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



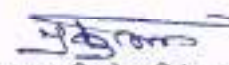


Conditions

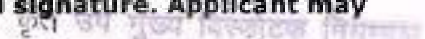
मुख्य विस्फोटक निबंधक / या विस्फोटक निबंधक द्वारा प्रदत्त प्रारूप P-3 में विस्फोटक विनिर्माण इकाई (एनएफओ) से जुड़े गोदाम से, अमोनियम नाइट्रेट के उपयोग के लिए, रखने हेतु अनुमति, अनुमति संख्या A/SC/KL/P3/14(A2264) की बात निम्नलिखित है।

The following are the conditions of license number A/SC/KL/P3/14(A2264) to License 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.

1. अमोनियम नाइट्रेट का भण्डारण अनुमति के साथ संलग्न अनुमोदित अरिखण में दर्शाए गए अनुज्ञप्त गोदाम या वेस्ट भण्डारण टैंक में ही किया जाएगा।  
The Ammonium Nitrate shall be possessed only in the licensed storehouse or well storage tank shown in the approved plan attached with the License.
2. अमोनियम नाइट्रेट की मात्रा परिसर, में या उसके किसी भी भाग में, अनुज्ञप्त मात्रा, किसी एक समय में, से अधिक नहीं होनी चाहिए।  
The quantity of Ammonium Nitrate in the premises or any part thereof shall not exceed at any one time the quantity for which License has been issued.
3. छलका हुआ या अपरिष्कृत अमोनियम नाइट्रेट को एकत्र कर अनुज्ञप्तिधारी द्वारा विनष्ट किया जाना चाहिए एवं विनष्ट किए गए अमोनियम नाइट्रेट की मात्रा का लेखाजोखा रखा जाएगा।  
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.
4. अनुज्ञप्तिधारी और विनिर्माण तथा संपरिवर्तन के लिए परिसर में नियुक्त प्रत्येक व्यक्ति को विनिर्माण तथा संपरिवर्तन के लिए अनुज्ञप्ति परिसर में अग्नि या विस्फोट से होने वाली दुर्घटना से बचाव तथा विनिर्माण तथा संपरिवर्तन के लिए अनुज्ञप्त परिसर में अतिरिक्त व्यक्तियों के प्रवेश से बचाव के 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.
5. मुख्य विस्फोटक निबंधक या अनुज्ञापन प्राधिकारी की पूर्व लिखित स्वीकृति के बिना अनुज्ञप्त परिसर में किसी भी प्रकार का परिवर्तन एवं परिवर्तन नहीं किया जाएगा। स्वीकृत किए गए इस प्रकार के परिवर्तन एवं परिवर्तन अनुज्ञप्ति के साथ संलग्न संशोधित अरिखण में दर्शाए 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.
6. अनुज्ञप्तिधारक द्वारा विनिर्माण तथा संपरिवर्तन प्रक्रिया के पर्यवेक्षण एवं कार्यों का संचालन इन नियमों के अंगुल्य करने हेतु एक योग्य एवं सक्षम व्यक्ति नियुक्त किया जाएगा।  
The License holder shall appoint a competent person to supervise the operations shall be conducted under the supervision of the competent person.
7. किसी निरीक्षण अधिकारी या नमूदा लेने वाले अधिकारी को अनुज्ञप्त परिसर में सुविधायुक्त समय पर बराबर अबाध पहुँच प्रदान की जाएगी और ऐसे अधिकारी को वे सभी सुविधाएँ उपलब्ध की जाएँगी 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.
8. यदि जिला प्राधिकारी या निरीक्षण अधिकारी अनुज्ञप्तिधारी को लिखित में अधिकृत परिसर में कोई मरम्मत या कोई परिवर्तन या परिवर्तन या ऐसी सिफारिशों 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 जातियों की सुरक्षा के लिए आवश्यक है, सूचित करता है, तो अनुज्ञप्तिधारी 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.
9. अग्नि या विस्फोट से होने वाली दुर्घटनाओं और अमोनियम नाइट्रेट की हानि, उसमें कमी या चोरी की सूचना निकरतम पुलिस स्टेशन और जिला प्राधिकारी के स्थानीय कार्यालय को तुरन्त, दी जाएगी।  
Accidents by fire or explosion and losses, shortages or theft of Ammonium Nitrate shall be immediately reported to the nearest police station and the District Authority.
10. अनुज्ञप्तिधारी अनुसूची-II भाग 3 में विनिर्दिष्ट प्रारूप 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 जाएँ।  
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.
11. अनुज्ञप्तिधारी, अनुसूची II भाग 3 में विनिर्दिष्ट प्रारूप द-9 में जिला प्राधिकारी को मासिक विवरणों इस प्रकार प्रेषित करेगा कि वह प्रत्येक आगामी महीने की 10 तारीख तक अनुज्ञापन प्राधिकारी या जिला प्राधिकारी को 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.

  
कृते संयुक्त मुख्य विस्फोटक निबंधक  
दक्षिणवर्त, चेन्नै  
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.

  
कृते उप मुख्य विस्फोटक निबंधक  
दक्षिणवर्त, चेन्नै  
For Deputy Chief Controller of Explosives  
South Circle, Chennai



भारत सरकार | Government of India  
 वाणिज्य और उद्योग मंत्रालय | Ministry of Commerce & Industry  
 पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो) | Petroleum & Explosives Safety Organisation (PESO)  
 पूर्व नाम:- विस्फोटक विभाग | Formerly- Department of Explosives  
 केन्द्रीय भवन, ब्लॉक सी-2, तीसरी मंजिल | Kendriya Bhavan, Block C-2, 3rd Floor  
 CSEZ पी.ओ.कक्कनाडु कोच्ची | CSEZ PO Kakkanad Dist. Ernakulam Ernakulam 682037  
 फ़ोन (Phone):- 2427286 | फ़ैक्स (Fax):- 2427276  
 ई-मेल Email: dyceernakulam@explosives.gov.in

संख्या (No.): E/SC/KL/38/21(E98818)

दिनांक (Date): 01/02/2022

संबंध में | To,

George Kochuparambil, Proprietor,  
 M/s. United Granites & Metals, Manakkadu (v), Vazhuthala 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 एनफ़ो विस्फोटक के एनफ़ो 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 अनुज्ञप्ति 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 आर.इ.-1 में विधिवत पूर्ण एवं हस्ताक्षरित आवेदन।  
Application in Form RE-1 duly filled in and signed.
- एक से पाँच वर्ष के अनुज्ञप्ति 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।  
Original 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 प्ररूप 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

(पी.के.राणा | Dr. P. K. Rana)

विस्फोटक नियंत्रक | Controller of Explosives

कृते उप मुख्य विस्फोटक नियंत्रक | For Dy. Chief Controller of Explosives

कोच्ची | Ernakulam

प्रतिलिपि प्रेषित | Copy Forwarded to:

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

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

कोच्ची | Ernakulam

(अधिक 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.**



Licence Endorsed under Rule 107(3) of Explosives Rules, 2008

By Shri Dr. R. Venugopal, Joint Chief Controller of Explosives, Ernakulam on 29/04/2019

**अनुज्ञापते प्ररुष एल. ई.-1 | LICENCE FORM LE-1**

(विस्फोटक नियम, 2008 की अनुसूची 4 के 1(घ) देखिए।)

(See article 1(d) of Schedule IV of Explosives Rules, 2008)

(घ) एक समय में 200 किलोग्राम से अधिक स्थल पर ए.एन.एफ.ओ. विस्फोटक के विनिर्माण के लिए अनुज्ञापति

Licence to manufacture : (d) ANFO explosives not exceeding 200 kilogrammes at any one time.

अनुज्ञापते सं. (Licence No.) : E/SC/KL/38/21(E98818)

वार्षिक फीस रुपए (Annual Fee Rs): 1200/-

1. Licence is hereby granted to

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

को अनुज्ञापति अनुदत्त की जाती है।

2. अनुज्ञापतिधारी की प्राप्ति | Status of licensee : Proprietorship Firm

3. अनुज्ञापति निम्नलिखित प्रयोजनों के लिए विधिमान्य है।

Licence is valid only for the following purpose.

Manufacture of -  
ANFO - के विनिर्माण के लिए।

4. अनुज्ञापति विस्फोटकों के निम्नलिखित किस्मों, प्रकार और मात्रा के लिए विधिमान्य है।

Licence is valid for the following kinds and quantity of explosives: - (क) (a)

क्र. सं.	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.

5. निम्नलिखित रेखाचित्र (रेखाचित्रों) से अनुज्ञापित परिसर की पुष्टि होती है।

The licensed premises shall conform to the following drawing(s):

रेखाचित्र क्र. (Drawing No.) E/SC/KL/38/21(E98818)  
दिनांक (Dated) 02/04/2018

6. अनुज्ञापति परिसर निम्नलिखित पते पर स्थित है। 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)

फैक्स (Fax)

7. अनुज्ञापति परिसर में निम्नलिखित सुविधाएं अंतर्विष्ट हैं।

The licensed premises consist of following facilities.

: as per attached Annexure details

8. अनुज्ञापति समय - समय पर यथासंशोधित विस्फोटक अधिनियम, 1884 और उनके अधीन विरचित विस्फोटक नियम, 2004 के उपबंधों, शर्तों और अतिरिक्त शर्तों और निम्नलिखित उपाबंधों के अधीन रहते हुए अनुदत्त की जाती है।

The licence is granted subject to the provision of Explosives Act 1884 as amended from time to time and the Explosives Rules, 2008 framed there under and the conditions, additional conditions and the following Annexures.

1. उपर्युक्त क्रम सं. 5 में यथा कथित रेखाचित्र (स्थान, सन्निर्माण संबंधी और अन्य विवरण दर्शित करते हुए।)

Drawings (showing site, constructional and other details) as stated in serial No. 5 above.

2. अनुज्ञापति प्राधिकारी द्वारा हस्ताक्षरित इस अनुज्ञापति की शर्तों और अतिरिक्त शर्तों।

Conditions and Additional Conditions of this licence signed by the licensing authority.

3. परिशिष्ट | Annexure

9. यह अनुज्ञापति तारीख 31 मार्च 2022 तक विधिमान्य रहेगी। This licence shall remain valid till 31st day of March 2022.

यह अनुज्ञापति, अधिनियम या उसके अधीन विरचित नियमों या अनुसूची V के भाग 4 के प्रति निर्दिष्ट सेट Set III के अधीन तथा उपबर्णित इस अनुज्ञापति की शर्तों का अधिकरण करने या यदि अनुज्ञापित परिसर योजना या उससे संलग्न उपबंध में दर्शित विवरण के अनुरूप नहीं पाए जाने पर निलंबित या प्रतिसंहत की जा सकती है, जहां वह लागू हो।

This licence is liable to be suspended or revoked for any violation of the Act or Rules framed there under or the conditions of this licence as set forth under set Set III, 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 - 02/04/2018

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

नवीनीकरण के पृष्ठान्न के लिए स्थान  
Space for Endorsement of Renewal

नवीकरण का तारीख Date of Renewal	समाप्ति की तारीख Date of Expiry	अनुज्ञापन प्राधिकारी के हस्ताक्षर और स्टाम्प Signature of licensing authority and stamp
01/02/2022	31/03/2027	उप मुख्य विस्फोटक नियंत्रक, एरणाकुलम Dy. Chief Controller of Explosives, Ernakulam

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

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

मुख्य विस्फोटक नियंत्रक या विस्फोटक नियंत्रक द्वारा अनुदान प्रारूप एन ई 1 (अनुच्छेद (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 एनएफओ विस्फोटकों की मात्रा किसी एक समय में उस मात्रा से अधिक नहीं होगी, जिसके लिए अनुज्ञप्ति 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.
- एनएफओ विनिर्माण शेड को 15 मीटर की दूरी पर बाड़ लगा कर संरक्षित किया जाएगा और वह अनुसूची- VIII की सारणी 1 में पधाविनिर्दिष्ट संरक्षित संकर्मों 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 I of Schedule VIII.
- शेड में कार्य कड़ाई में अधिकतम 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.
- एनएफओ विस्फोटकों को विनिर्माण अनुज्ञप्तिधारी द्वारा नियुक्त किसी अर्हित उत्तरदायी व्यक्ति के सीधे पर्यवेक्षणधीन किया जाएगा।  
The ANFO explosives shall be manufactured under the immediate supervision of a qualified responsible person appointed by the licensee.
- अनुज्ञप्तिधारी और प्रत्येक नियोजित व्यक्ति उस स्थान या उन स्थानकों में जहाँ एनएफओ 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.
- एनएफओ विस्फोटकों के सभी अवशेषों को एकत्रित किया जाएगा और अनुभवी व्यक्ति 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.
- एनएफओ विस्फोटकों के विनिर्माण के लिए प्रयुक्त आधानों और मिश्रणों को प्रयोग के पश्चात् उपयुक्त डिटरजेन्टिंग घोल से अच्छी तरह साफ किए जाएंगे 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 प्रतिक्रिया से अदरगत 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 पुक्तिपुक्त समयों पर अनुज्ञप्त परिसर में अबाध पहुंच प्रदान की जाएगी और वह अभिनिश्चित करने के लिए कि अधिनियम और इन नियमों के उपबंधों या सुरक्षा संबंधी शर्तों का सम्यक रूप से पालन किया जाता है, उस अधिकारी को प्रत्येक सुविधा उपलब्ध करवाई 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 लिखित में अनुज्ञप्ति धारक को अनुज्ञप्त परिसर या मशीनरी, औजारों या साधनों में कोई 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, सूचित करता है जो अनुज्ञप्ति 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 licence 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 प्राधिकारी तथा अनुज्ञापन प्राधिकारी के स्थानीय कार्यालय में तुरत 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.

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

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


मुख्य उप-मुख्य विस्फोटक नियंत्रक  
For Deputy Chief Controller of Explosives  
एरमकुलम, Ernakulam



EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil

Annexure- 15

**KSPCB LICENSE**



**KERALA STATE POLLUTION CONTROL BOARD**

FILE NO. :PCB/RO-EKM/IDK/R18IDU446677/2021  
Date of issue :10/08/2021

**INTEGRATED CONSENT TO OPERATE - RENEWAL**

Consent No : R18IDUCTOR446677

Ref : 1. Consent No.018IDKCTO/A7515269 dated 16/07/2018 valid Up to 15/07/2023  
2. Consent Variation Order No:O18LDKCVO 8454273 Dated:04.09.2018  
3. Consent Variation Order No : O18IDKCVO8831136 dated 17.10.2018

The 'Integrated Consent to Operate' issued as per reference above to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS GEORGE KOCHUPARAMBIL, VAZHITHALA P O THODUPUZHA is hereby renewed up to 15/07/2024 and issued to M/s SRI.GEORGE KOCHUPARAMBIL, QUARRY OF UNITED GRANITES & METALS GEORGE KOCHUPARAMBIL, VAZHITHALA P O THODUPUZHA. The consent(s)/ variation order(s) cited under reference are integral part of this renewal order and this order is subject to the conditions stipulated therein and the following modifications/ additions.

**I. GENERAL**

S.No.	Items	Description
1	CAPITAL INVESTMENT	Rs.1200LAKH
2	ANNUAL FEE	Rs.81,000/-
3	FEE REMITTED	Rs.81,000/-
4	VALIDITY	15.07.2024

**II. Stack Details**

Stack No.	Source of Emission	Emission Rate(Nm <sup>3</sup> /Hr)	Stack Height above		Control Equipment
			Ground Level(In Meters)	Roof Level(In Meters)	

**III. CONDITIONS**

Page 1



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

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 2 months prior to the date of expiry. Late application will be accepted only with fine

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

DATE :10/08/2021

  
SIGNATURE & SEAL OF ISSUING AUTHORITY  
**M.A. BALU**  
CHIEF ENVIRONMENTAL ENGINEER  
Chief Environmental Engineer



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

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](http://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.

**EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil**

**Annexure- 16**

**PANCHAYAT LICENSE**

													
നമ്പർ: T/2022-2023/JC3/1446/2023	തീയതി: 01/04/2023												
<p><b>മണക്കാട് ഗ്രാമപഞ്ചായത്ത്</b> പുതുപ്പുരിയാനം പി.ഒ., ഇടുക്കി (ജില്ല)</p> <p>ഫീസ്: 666668, ഫോൺ: 04662-202248, ഇ-മെയിൽ: manakkadgp@gmail.com</p>													
<p><b>വ്യവസായം, വാണിജ്യം, സംരക്ഷകത്വം, ഇറ്റ് സേവനങ്ങൾക്കുള്ള മൈസൻസ്</b> (കെ.പി.ആർ ആക്ട് സെക്ഷൻ 232, FTE &amp; OS മൈസൻസ് ചട്ടങ്ങൾ 1986)</p>													
മൈസൻസിയുടെ പേര്	ജോർജ്ജ് കൊച്ചുപറമ്പിൽ												
മൈസൻസിയുടെ താമസ വിലാസം	കൊച്ചുപറമ്പിൽ, വഴിത്തല പി.ഒ.												
സ്ഥാപനത്തിന്റെ പേരും, സ്ഥലനാമവും	മുണ്ടാറ്റമ്പ് ഗ്രാമപഞ്ചായത്ത്, വഴിത്തല												
മൈസൻസ് നൽകിയിട്ടുള്ള പ്രവർത്തനങ്ങൾ	കരിമരു ക്വാറി തടഞ്ഞിട്ടുള്ള ഇടയിൽ ഉൽപ്പാദിപ്പിക്കുന്നതിന്												
വാർഡ് നമ്പർ/കേന്ദ്ര നമ്പർ	XII/-												
മൈസൻസ് കാലാവധി	01/04/2023 മുതൽ 31/03/2028 വരെ												
മൈസൻസ് ഫീസ്	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>രൂപ</th> <th>രസീദ് നമ്പർ</th> <th>തീയതി</th> </tr> </thead> <tbody> <tr> <td>76000/- രൂപ</td> <td>122030316, 3617, 4430</td> <td>15/03/2023, 31/03/2023</td> </tr> <tr> <td>22200/- രൂപ</td> <td>122030316, 3617, 4430</td> <td>15/03/2023, 31/03/2023</td> </tr> <tr> <td>12800/- രൂപ</td> <td>122030316, 4430</td> <td>15/03/2023, 31/03/2023</td> </tr> </tbody> </table>	രൂപ	രസീദ് നമ്പർ	തീയതി	76000/- രൂപ	122030316, 3617, 4430	15/03/2023, 31/03/2023	22200/- രൂപ	122030316, 3617, 4430	15/03/2023, 31/03/2023	12800/- രൂപ	122030316, 4430	15/03/2023, 31/03/2023
	രൂപ	രസീദ് നമ്പർ	തീയതി										
	76000/- രൂപ	122030316, 3617, 4430	15/03/2023, 31/03/2023										
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12800/- രൂപ	122030316, 4430	15/03/2023, 31/03/2023											
ജോളാർ ഫീസ്													
തൊഴിൽ നികുതി													
മൈസൻസ് അനുവദിക്കുന്നതിന് പാലോടിയ നിരോധനപ്രഖ്യാപന വിജ്ഞാപനങ്ങൾ (നമ്പർ, തീയതി, കാലാവധി, നൽകിയ മേഖലകൾ, സ്ഥാപനം)	<p>1. Integrated Consent to operate-Renewal from PCB No. PCB/RO-EPM/RO/KR/1810/446677/2021 Dated 10/05/2021 Valid upto 15/07/2024 (15/07/2024-ന് ശേഷം മൈസൻസ് പുതുക്കി പാലോടിയതാണ്)</p> <p>2. Environment Clearance from SEIAA No. 1137/EC/SEIAA/KU/2017 Dated 02/03/2023 (Certificate മോശമംഗലം പുതുക്കേണ്ടതാണ്)</p> <p>3. License from P&amp;SO No. B/9CKU/22/611 (E36112) Dated 06/02/2020 Valid upto 31/03/2025, (31/03/2025-ന് ശേഷം മൈസൻസ് പുതുക്കി പാലോടിയതാണ്), BLASTMANS CERTIFICATE</p>												
 <p>താമിൻ മൂല</p>	<p>   <b>മുഖ്യമന്ത്രി</b>  <b>മണക്കാട് ഗ്രാമപഞ്ചായത്ത്</b>  <b>മുഖ്യമന്ത്രി</b>  <b>മണക്കാട് ഗ്രാമപഞ്ചായത്ത്</b>                  ഘരവാരം: 01/04/2023                  ഫോൺ: 04662-202248, ഇ-മെയിൽ: manakkadgp@gmail.com             </p>												

ഘരവാരം: 01/04/2023  
 ഫോൺ: 04662-202248, ഇ-മെയിൽ: manakkadgp@gmail.com

**EC Compliance Report for the period of April 2023 to September 2023**  
**Granite building stone quarry of Shri. George Kochuparambil**

Tool developed by: Arisar Thachayr

**മൈസൻസി രാജ്യ പരമ്പര വ്യവസ്ഥകൾ അനുസരിക്കുന്നുണ്ടോകുന്നു.**

- 1 മേഖല പഞ്ചായത്ത് ഓഫ് മുകളും അതേ തുടർച്ചയുള്ള ചട്ടങ്ങളും മേഖലകളും അനുബന്ധിച്ച പ്രവർത്തിക്കുന്നുണ്ടോകുന്നു.
- 2 രോഗിൻ സ്ഥലവും അതിലുള്ള സാധനസാമഗ്രികളും പഞ്ചായത്തധികാരികൾക്കോസെക്രട്ടറി അധികാരിയോടടുത്തു തുറന്നുവെക്കാനോ പരിശോധിക്കുന്നതിന് മൈസൻസി വേണ്ട രേഖകളും തൽക്കരവും അവർ മുമ്പാകെയുള്ളതും ഈ മൈസൻസ് കാണിക്കേണ്ടതുമാണ്.
- 3 ഏത് സ്ഥലത്തിന്റെ കാര്യത്തിൽ മൈസൻസ് തൽക്കീർതിക്കുന്നവോ ആ സ്ഥലത്ത് ഏല്പാവും കാണേണ്ട വിവരങ്ങളുള്ള ഒരു ഓഡിറ്റ് മൈസൻസി അന്വേഷിച്ചു, മൈസൻസിന്റെ നമ്പരും ഉദ്ദേശവും കാണിക്കുന്ന ഒരു അയാളുമുള്ള വ്യക്തികൾക്കുമാണ്.
- 4 പഞ്ചായത്തിൽ നിന്നും തദ്ദേശവാസികൾ ഉൾപ്പെടെയുള്ള രോഗിൻ സ്ഥലം താറ്റാൻ പാടില്ലാത്തതും രോഗിൻ നിർമ്മാണ പദ്ധതി വിവരം മുൻകൂട്ടി പഞ്ചായത്തിൽ അറിയിക്കേണ്ടതുമാകുന്നു.
- 5 രോഗിൻ സ്ഥലവും പരിസരങ്ങളും വൃത്തിയാക്കാനും സാക്ഷാദർശനംകൊണ്ടുമാത്രം ഉണ്ടാക്കേണ്ട വിവരങ്ങളും പൊതുജനപ്രവേശനംകൊണ്ടും വിവരങ്ങളും വ്യക്തമാക്കുന്ന വ്യക്തിയുള്ള മേഖലപാർശ്വങ്ങൾ ഉണ്ടാക്കേണ്ടതും,പോലീസ് മുൻകരുതലുമായും ഉണ്ടാക്കേണ്ട വിവരങ്ങളും മുന്നോടിക്കേണ്ടതുമാണ്.
- 6 മേഖല പ്രവർത്തിപ്പിക്കുന്നതിനുള്ളതും മറ്റുവിധി സ്ഥലം വൃത്തിയാക്കേണ്ടതുമാണ്.
- 7 ആ സ്ഥലത്തിന്റെയോ പരിസരത്തിന്റെയോ, ഏതെങ്കിലും ഓരോത്ത് വീടുകളോ നിയമപിടിക്കുന്നതോ ചെയ്യുന്ന ചട്ടപ്രകാരം, മൂലങ്ങളുടെ അനുബന്ധങ്ങളോ മറ്റ് പരാമർശമാ മേഖലയിൽ, സെക്രട്ടറിക്ക് കൃത്യമാക്കുന്ന രീതിയിൽ തീക്കേ ചെയ്യേണ്ടതുമാണ്.
- 8 മൈസൻസി ഏതൊരു കേന്ദ്രത്തിന്റെയും ചുമതലകളുടെ അനുബന്ധത്തിൽ ഏതൊരു ഓരോയും മേഖലപരമായ പരിസരങ്ങളിലുള്ള മനയം നൽകാനും അവിടെ തെറ്റിച്ചുവീശാനുള്ള ഏതെങ്കിലും പ്രാവശ്യം, മാർച്ചിനോ, മറ്റുചുമതല, അനുബന്ധം, ഉപസാഹകര്യം ഏതെങ്കിലും പരാമർശമാ അവിടെ അറിയിക്കുന്ന മേഖലപരമായ ഏതൊരു നോട്ടീ ക്ലോപ്പർ തീർത്ത് നിർമ്മിക്കേണ്ടതുമാണ്.
- 9 മൈസൻസി മേഖലപരമായ സ്ഥലത്തോ, പരിസരത്തോ അതോ ചേർന്നോ ഉള്ള ഏതൊരു ഓരോയും, അനുബന്ധം കയ്യെടുക്കുന്നതുമുള്ള ഉപകരണവും ഏതൊരു നോട്ടീ ക്ലോപ്പർ തീർത്ത് വെച്ചിരിക്കേണ്ടതുമാണ്.
- 10 അതിരും മേഖലയിലുള്ള കടകളുടെ മൈസൻസ് നൽകേണ്ടതുമാണ്.
- 11 ഏതെങ്കിലും മേഖലയിലുള്ള മേഖല ഓരോയും കൃത്യം മേഖലയോ പ്രവേശനം പകർച്ച വ്യവസ്ഥകളോ ഉള്ള മേഖലയോ കയ്യെടുക്കാനും തൽക്കരത്തിൽ ഉപയോഗിക്കുന്ന സ്ഥലത്തും പരിസരത്തും പ്രവർത്തിക്കുന്നവർ പാടില്ലാത്തതാകുന്നു.
- 12 17/02/2019 ലെ സ.മു. (006) നം.72019 പരിപാടിയിൽ ഉണ്ടാക്കിയ പ്രകാരം മറ്റൊരവന ഉപയോഗിക്കുന്ന തീരദേശ വനങ്ങളിൽ ഉൾപ്പെടുത്തിക്കൊടുക്കുന്ന മേഖലകളോടോ വിൽക്കുന്നതോ മേഖലകളോ ചെയ്യുന്നതോ വിൽക്കുന്നതോ ചെയ്യുന്നതോ പാടില്ല.
- 13 സ്ഥാപനത്തിന്റെ മേഖലയിൽ സ്ഥലംകൊണ്ടും മേഖലകളുമുള്ളതും ഉൾപ്പെടുത്തിക്കൊടുക്കേണ്ടതുമാണ്.
- 14 20 നീറ്റിൽ കയ്യെടുക്കുന്ന ഏറ്റവും പൊതുവുകൾക്കും മേഖലകൾക്കും മേഖലകൾക്കും ഏതൊരു നൽകുന്നതും ഏതൊരു നൽകേണ്ടതുമാണ്.
- 15 തീരദേശ ഉൽപന്നങ്ങളായ പാൽത്താല, യൂഗ്ഗിംഗ് തുടങ്ങിയവ സംഭരിക്കുന്നതിനുള്ളതും വിൽക്കുന്നതും പാടില്ല.
- 16 സ്ഥലവകുപ്പിന്റെയോ മേഖലകളുടെ പാടില്ല.
- 17 മുകളിൽ കാണിച്ചിരിക്കുന്ന വ്യവസ്ഥകളുടെ മംഗലം ഈ മൈസൻസ് ന്നു ചെയ്യുന്നതിന് കാണിക്കേണ്ടതുമാണ്.



സെക്രട്ടറി  
**സെ.ജി.എ.എ.**  
 മേഖലാധികാരി, മൈസൻസി  
 മൈസൻസി വകുപ്പ്, മൈസൻസി  
 മൈസൻസി വകുപ്പ്, മൈസൻസി - 585 404  
 ഫോൺ: 0462 203248, 0462 203249

N.B:- ഈ മൈസൻസ് അനുബന്ധിക്കുന്ന തീയതിൽ 30 ദിവസം മുൻ മൈസൻസി ചെയ്യുന്നതിനുള്ളതും ചെയ്യേണ്ടതുമാണ്.

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

Annexure- 17

**NEWSPAPER ADVERTISEMENT**

**ബോധിപ്പിക്കൽ**

പൊതുജനസമുദായത്തിൽ, കേരള സംസ്ഥാനം, തൃശ്ശൂർ ജില്ല, തോട്ടപ്പുഴ താലൂക്ക്, മണക്കാട് ഗ്രാമപഞ്ചായത്ത്, മണക്കാട് വില്ലേജിലുംപെട്ട നിരവധി നമ്പർ 354/4, 354/5, 355/1pt, 351/1pt, 350, 352/1pt-ൽ ഹനരുന്നും ചെയ്യുന്നതിനുമുമ്പെ പരിസ്ഥിതി അനുമതി ശ്രീ. ജോർജ്ജ് കൊച്ചുപറമ്പിൽ-ന് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്സസ്സ്മെന്റ് അതോറിറ്റിയിൽനിന്നും ഓർഡർ നമ്പർ 1137/EC/SEIA/VKL/2017 തീയതി 17-03-2018 ഓർഡർ പ്രകാരം ലഭിച്ചിരിക്കുന്നു. ഈ ഓർഡറിന്റെ പകർപ്പ് കേരള സംസ്ഥാന പരിസ്ഥിതി ഇംപാക്ട് അസ്സസ്സ്മെന്റ് അതോറിറ്റിയിൽ ലഭ്യമാണ്. [www.seiaakerala.org](http://www.seiaakerala.org) എന്ന വെബ്സൈറ്റിൽകൂടിയും 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, Kerala vide Order No. 1137/EC/SEIA/VKL/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](http://www.seiaakerala.org)

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 18**



*Details Of Ec*

**MONITORING PHOTOS**



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



**GLOBAL ENVIRONMENT & MINING SERVICES**

(Consulting Engineers, Mine designers, Geologist &amp; Surveyors)

NABL &amp; MOEFCC RECOGNIZED LABORATORY

3<sup>rd</sup> Main Road, Basaveswara Badavane.**HOSPETE – 583201**, Dist., Vijayanagara (Karnataka)

Ph : +918394 229433, 295018

e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 22.05.2023

**Analysis Report of Ambient Air Quality Monitoring**

- 1 Name of the Customer/Address : Granite Building Stone Quarry of  
Shri. George Kochuparambil  
Extent: 12.2987Ha
- 2 Sample Description : Re-Sy.Nos: 354/4, 354/5, 355/1pt, 351/1pt,  
350 & 352/1pt,  
Manakkad Village, Thodupuzha Taluk,  
Idukki District, Kerala.
- 3 Sample Collected By : **Ambient Air Quality Monitoring**
- 4 Particulars of Sample Collected : **GLOBAL Environment & Mining Services**
- 5 Duration of the Monitoring : **Combined Sampler (GTI-241)**
- 6 Location of Monitoring : **24 Hour of Sampling**
- 11 Report Number : **Core zone area (AI)**  
ULR-TC532323000001445F


**Results**

Date of Monitoring	PM10 [ $\mu\text{g}/\text{m}^3$ ]	PM2.5 [ $\mu\text{g}/\text{m}^3$ ]	SO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]	NO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]
	IS : 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS : 5182: (Part 2) 2001 (RF 2014)	IS : 5182: (Part 6) 2006 (RF 2014)
16.05.2023	57.9	21.7	12.8	14.9
<b>Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

**INFERENCE**

As per CPCB Standards,  
Report Status: - Measured Values for the above parameters are within the limit.

**\*\*End of Report\*\***

  
Analyzed By  
J.M. Thippeswamy  
Chemist



  
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 1 Month, Filter papers & Thinfiles 7 Days and B/C 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 Hospete jurisdiction only.





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e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-1D/TF/11/01

Date: 22.05.2023

### Analysis Report 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 Name of the Station : **Kolady**
  - 7 Report Number : ULR-TC532323000001446F

### Results

Date of Monitoring	PM10 [ $\mu\text{g}/\text{m}^3$ ]	PM2.5 [ $\mu\text{g}/\text{m}^3$ ]	SO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]	NO <sub>2</sub> [ $\mu\text{g}/\text{m}^3$ ]
	IS: 5182: (Part 23) 2006 (RA 2012)	USEPA 2001	IS: 5182: (Part 2) 2001 (RF 2014)	IS: 5182: (Part 6) 2006 (RF 2014)
17.05.2023	50.1	18.4	10.9	12.8
<b>Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>

#### INFERENCE

As per CPCB Standards,

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

**\*\*End of Report\*\***

**Analysed By**  
J.M. Thippeswamy  
Chemist



**Authorized Signatory**  
K. Ramakrishna Reddy  
Technical Manager

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

#### Note:

- The result listed refers only to the tested samples & applicable parameters. Encashment of products is neither inferred nor implied.
- Water Samples will be destroyed after 15Days, Minerals 1 Month, Filter papers & Thinners 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.
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Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 22.05.2023

## TEST REPORT OF AMBIENT NOISE LEVEL 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 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 : 24 Hours Sampling
  - 6 Date of Analysis Completion : 17.05.2023
  - 7 Report No : ULR-TC532322000001447F

### Results

Date	16.05.2023	17.05.2023
Name of the Location	Core Zone	Kolady
Time (hrs)	N1	N2
6.00	38.4	35.2
7.00	48.2	44.8
8.00	47.2	48.4
9.00	51.4	46.2
10.00	53.4	52.6
11.00	54.2	51.4
12.00	54.8	51.2
13.00	55.8	52.4
14.00	53.4	50.8
15.00	55.8	53.4
16.00	58.4	50.2
17.00	56.2	51.2
18.00	51.2	48.8
19.00	50.4	49.6
20.00	42.8	48.4
21.00	40.2	46.4
22.00	40.6	47.2
23.00	41.2	47.4
00.00	36.8	44.4
01.00	37.4	40.8
02.00	36.2	40.2
03.00	36.4	39.6
04.00	36.8	37.4
05.00	37.2	39.2



- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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## GLOBAL ENVIRONMENT & MINING SERVICES

(Consulting Engineers, Mine designers, Geologist & Surveyors)

NABL & MOEFCC RECOGNIZED LABORATORY

3<sup>rd</sup> Main Road, Basaveswara Badavane,

**HOSPETE - 583201**, Dist., Vijayanagara (Karnataka)

Ph : +918394 229433, 295018

e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

ULR-TCS3232300001447F		
<b>L max</b>	58.4	53.4
<b>L min</b>	36.2	35.2
<b>Ld</b>	53.5	50.3
<b>Ln</b>	38.2	43.1
<b>Leq</b>	51.5	48.7

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

Note	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
	*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.	



*R. K. R.*  
 Authorized Signatory  
 Technical Manager

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**HOSPETE – 583201**, Dist., Vijayanagara (Karnataka)

Ph : +918394 229433, 295018

e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

GEMS-LD/TF/11/01

Date: 22.05.2023

### 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 : 16.05.2023
- 6 Date of sample Received : 19.05.2023
- 7 Date of sample Analyzed : 20.05.2023
- 8 Report Number : ULR-TC532323000001448F

Sl. No.	Parameters	Unit	Result	Test Protocol	Requirement/Limit IS : 10500 : 2012	
					Acceptable	Permissible
1	pH	-	6.73	APHA 22 <sup>nd</sup> 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	0.45	APHA 22 <sup>nd</sup> Edition 2012 2130 B (Pg No. 2-14)	1	5
6	Conductivity	µS/cm	170	APHA 22 <sup>nd</sup> Edition 2012 2510 B (Pg No. 2-54)	-	-
7	Total Dissolved Solids	mg/L	191	APHA 22 <sup>nd</sup> Edition 2012 2540 B (Pg No. 2-65)	500	1000
8	Total Alkalinity as CaCO <sub>3</sub>	mg/L	81	APHA 22 <sup>nd</sup> Edition 2320 B (Pg No. 2-35)	200	600
9	Total Hardness as CaCO <sub>3</sub>	mg/L	113	APHA 22 <sup>nd</sup> Edition 2012 2540 C (Pg No. 2-46)	200	600
10	Calcium as Ca	mg/L	35	APHA 22 <sup>nd</sup> Edition 2012 3500 Ca B (Pg No. 3-84)	75	200
11	Magnesium as Mg	mg/L	7.1	APHA 22 <sup>nd</sup> Edition 2012 3500 B-Mg By Calculation	30	100
12	Chloride as Cl	mg/L	18.2	APHA 22 <sup>nd</sup> Edition 2012 4500 Cl (Pg No. 6-72)	250	1000
13	Sulphate as SO <sub>4</sub>	mg/L	49	APHA 22 <sup>nd</sup> Edition 2012 4500 SO42 - E (Pg No. 4-190)	200	400
14	Nitrates as NO <sub>3</sub>	mg/L	9.1	APHA 22 <sup>nd</sup> Edition - 4500 NO <sub>3</sub> - E (Pg No. 4-131 to 4-132)	45	NR
14	Nitrate Nitrogen as NO <sub>3</sub>	mg/L	11.7	APHA 22 <sup>nd</sup> Edition 2012 4500 NO3 E (Pg No. 4-125 to 4-127)	45	No restriction



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Ph : +918394 229433, 295018

e-mail : gems\_hpt@yahoo.com,

Website : www.globalmining.in

ULR-TC532323000001448F

15.	Fluoride as F	mg/L	0.62	APHA 23 <sup>rd</sup> Edition 2017 4500 F-D (Pg No. 4-90 to 4-91)	1.0	1.5
16.	Iron as Fe	mg/L	0.25	APHA 23 <sup>rd</sup> Edition – 3500 Fe-B (Pg No. 3-80 to 3-82)	0.3	NR
17.	Sodium as Na	mg/L	8.7	APHA 23 <sup>rd</sup> Edition 2017 Na 3500 B (Pg No. 3-99 to 3-100)	-	-
18.	Potassium as K	mg/L	0.83	APHA 23 <sup>rd</sup> Edition 3500 K B (Pg No. 3-89 to 3-90)	-	-
19.	BOD 5 days at 27°C	mg/L	NIL	IS 3025 (P 44) – 1993, RA-2014,	-	-
20.	COD as O <sub>2</sub>	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5120 C (Pg No. 5-18 to 5-19)	-	-
21.	Oil & Grease	mg/L	NIL	APHA 23 <sup>rd</sup> Edition 5520 B (Pg No. 5-41 to 5-42)	0.5	NR
22.	Cadmium as Cd*	mg/L	<0.001	APHA 23 <sup>rd</sup> Edition 3111 - B (Pg No. 3-20 to 3-21)	0.001	NR
23.	Copper as Cu	mg/L	<0.001	APHA-23 <sup>rd</sup> Edition 3111-B (Pg No. 3-20 to 3-21)	0.02	1.5
24.	Nickel as Ni	mg/L	<0.001	APHA-23 <sup>rd</sup> Edition 3111 -B (Pg No. 3-20 to 3-21)	0.02	NR
25.	Zinc as Zn	mg/L	<0.1	APHA-23 <sup>rd</sup> Edition 3111-B (Pg No. 3-20 to 3-21)	5	15
26.	Salinity*	PPT	NIL	APHA-23 <sup>rd</sup> Edition 3111-B (Pg No. 3-20 to 3-21)	-	-
27.	Total Phosphorus	mg/L	<0.01	APHA-23 <sup>rd</sup> Edition 4500-D (Pg No. 4-134)	-	-
28.	Total Coliforms*	MPN/ 100ml	Ab	APHA 12 <sup>th</sup> Edition 9222 B (Pg No. 9-78)	-	-
29.	Fecal Coliforms	MPN/ 100ml	Ab	APHA 12 <sup>th</sup> Edition 9222 D (Pg No. 9-85)	-	-
30.	Phys. Bacteria*	Unit/L	Ab	APHA 23 <sup>rd</sup> Edition 10200 F (Pg No. 10-17)	-	-

Note: BDL Below Detectable Limit

Ag: Agreable  
NR: No Relaxation  
RA: reaffirmed  
Ab: Absent

Location: Kolady

**\*\*End of report\*\***

*Jm. ty*  
Analyzed By  
Chemist



*R.K.R*  
Authorized Signatory  
Technical Manager

- Approved by NABL & Recognized by Ministry of Environment, Forest and Climate Change for Laboratory
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EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil

Annexure- 21

NURSERY RECEIPTS

Mob: 9995297377


## ARANYA NURSERY

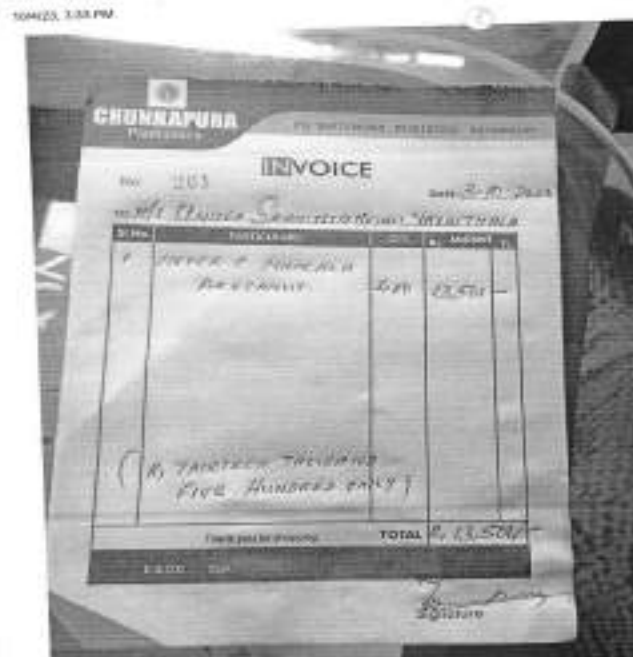
Reg.No. Valara P.O., Irumpupalam - 685 561

No. **112** Date: 01/08/2023

To: United Granites & Metals Ltd. Vazhakkulam.

Sl No.	Items	Qty.	Rs.	Ps.
1	മടയ്ക്ക് (cover)	100x40	4000	
-	മടയ്ക്ക് (Naked)	50x25	1250	
2	മടയ്ക്ക് (Naked)	100x25	2500	
3	മടയ്ക്ക്/മടയ്ക്ക് (cover)	25x40	1000	
	മടയ്ക്ക്/മടയ്ക്ക് (Naked)	25x25	625	
4	മടയ്ക്ക്/മടയ്ക്ക് (cover)	50x30	1500	
5	മടയ്ക്ക്/മടയ്ക്ക് (cover)	50x30	1500	
6	മടയ്ക്ക്/മടയ്ക്ക് (cover)	50x40	2000	
7	മടയ്ക്ക്/മടയ്ക്ക് (cover)	100x40	4000	
8	മടയ്ക്ക്/മടയ്ക്ക് (cover)	50x30	1500	
9	മടയ്ക്ക്/മടയ്ക്ക് (cover)	50x25	1250	
TOTAL			21125	
Advance				
Balance			21125	

Signature: 



HEALTH INSURANCE OF EMPLOYEES

Health Insurance - Hospitalization Cover		niva	
<p>Quote is valid for 30 days from the date of issue (you alter policy and date of issue over the period). Quote is not to change with change in information. Quote is valid for the given set of details, any change in details of insured requires a new quote.</p>			
Quote No.	1211009		
Quoted Name	NIVA		
Issuing Insurer	Niva Health Insurance Co. Ltd. (Member of Niva Health Insurance Group Limited)		
Line of Coverage	1211009		
Quote Type	Private		
Name of Policy Owner	SRI GEORGE KOCHUPARAMBIL		
Industry Type	I		
Cover Type (Individual/Family)	Individual		
Policy Period - Start Date	18-04-23		
Policy Period - End Date	18-04-24		
Policy Type (Individual/Family/Group/Overseas)	Individual		
<b>Benefits Details</b>			
Pre-natal/Childing Tax	INR 500	Taxi Frondem	INR 1000
Outpatient Policy Inclusion	INR 50000	Total Claims Paid - (1%)	INR 5000
Claim Report Date	18-04-23		
<p>For quote to stand valid, the above details are mandatory. Please refer to the policy document for details on pre-conditions, conditions and exclusions. Any change in the above details requires a new quote.</p>			
<b>Benefit Details</b>			
LN	Benefit Details	Particulars	
1	Family Members	Employee Only	
2	Total no of employees/Family Members	141	
3	Total no of Insured Members	141	
4	Health Cover	INR 50000	
5	Overseas Cover	INR 50000	
<b>Benefit Details</b>			
Outpatient Care - Self Insured	INR 2 Lacs		
Outpatient Day Care Inpatient	Normal and Self Insured		
	Normal	2%	
	ICU	2%	
Hospital Accommodation - Room and board facilities	If the mean expense is admitted the highest in a room category or in a room which the accommodation is not more than the stipulated as specified above, then that maximum is to be done. In any case, the maximum of the total necessary medical expenses (including ambulance charges) does not exceed the proportion of the difference between the maximum actual incurred and the maximum in category/Inpatient Room Rent.		
Pre-hospitalization Medical Expenses	Covered up to 30 days insured for 30 days		
Post-hospitalization Medical Expenses	Covered up to 90 days insured for 90 days		
Emergency Ambulance	INR 1,00,000 (per insured per year)		
	Normal	Full Covered	
	ICU	Full Covered	
Maternity Expenses	1. Maternity Expenses Benefit is available for Employees of Company only if both are covered in the above mentioned details received from Employer. 2. The Maternity Benefit may be claimed under the Policy in respect of eligible Insured Members only from the date of the Policy including any period thereafter for the delivery of a child or foetus (only necessary treatment of such child for minimum of pregnancy up to maximum of 2 pregnancies of twin babies).		
Non-Financial Expenses	Not Covered		
Corporate Rates	Full Covered		
Corporate Floor Limit	NA		
Corporate Floor of total family	NA		
Cost of Overall Policy	NA		
OHV Coverage	Full Covered		
Co-payment	NA		
Co-insurance	NA		
<b>Waiting Period</b>			
Pre-existing Disease (P.D.)	Waived Off		
1st or subsequent (Accident/Stroke/Exclusion)	Waived Off		
Initial Waiting Period	Waived Off		
<b>Special Conditions:</b>			
1. Claims for back treatment - If a person's age is above 65, it is payable.			
2. 50% co-pay for selected ailments (Stroke, Blindness, Surgery/Reconstruction of Breast/AMUTD/Levy Surgery/Levy Stroke/Levy Prostate).			

**EC Compliance Report for the period of April 2023 to September 2023**  
**Granite building stone quarry of Shri. George Kochuparambil**

	Terms & Conditions
Insurance to meet availability clause	Continuity benefit will be provided at correct medical intervention.
Claim inclusion and document verification clause	For Health insurance – Claim intimation should be given to Nika Baza within 48 hours of admission or before discharge from hospital. Documents needs to be submitted within 30 days from date of discharge from hospital. For Cashless – In case of medical hospitalization, claim intimation should be given within 24 hours of admission or before discharge from hospital.
Admission/Discharge Intimation clause	-Admission intimation is allowed only in case of natural admission (i.e. new born baby, newly married spouse) taking during the full year period. -In case of death, there will be no refund for members who have claimed. -In case of death, if intimation will be provided later than the DO, and any claim has been taken by the member in that period, Recovery of the claim amount need to be made from the dependent. -The insured will inform of new addition or deletion to the company within a reasonable time but not later than 45 days from the date of the joining of the employee's dependent or deletion of dependent from the policy. -Addition to be derived or made back effective from date of being subject to be also being available in CI account.
Other Standard Conditions	- 50% co-pay applicable for certain high treatment (Robotic Surgery, if coverd) - No individual (employee or dependent) can be covered more than once in a policy. - Insured individual's sum insured due to discharge from the ambulatory (outpatient) care facility, but in case of claims already incurred, they will not be payable. - Intimations cannot be covered as an employee and dependent under the same policy, nor may dependent of parent will be covered by both under the same policy. - Following charges levied by hospital will not be payable under the policy: - Admission charge, surgery / service charges / medical device charges / diagnostic fee / ambulance fee / other non-medical or non-treatment related charges. - Claiming groups may not split into multiple groups to obtain multiple benefit levels. - Excluding a class within a group from coverage is not permitted. - Ineligible employees include: contractors, temporary, seasonal, substitute, uncontracted employees, partners, silent partners, shareholders or investors only, owners, officers or managing members who are not active, permanent, full-time employees. - Any type of surrogation, declaration, as others, voluntary termination of pregnancy or family planning is excluded from the Policy. - In fertility services including artificial insemination and advanced reproductive technologies such as IVF, ICSI, GIFT, Zyg, gestational surrogacy are excluded under the Policy. - Treatment of any sexual disorder including incontinence (irrespective of the cause) and sex changes or gender reassignment or erectile dysfunction are also excluded under the Policy. - Cosmetic and Reconstructive Surgery shall be excluded from scope of policy.  *Subject otherwise to terms, conditions and exclusions of Max Health Plan terms and conditions.

Demography												
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	0	0	22	24	23	37	19	27	22	9	5	0

Per Person premium sum (Annualized sum)												
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	1,067.71	1,681.36	1,767.74	1,943.57	2,245.23	2,749.18	3,427.05	4,437.96	6,172.37	8,952.50	10,344.08



*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**Annexure- 23**

**CSR EXPENDITURES & RECEIPTS**

CSR REPORT ON 1/04/2023 to 30/09/2023			
DATE	NAME	PURPOSE	AMOUNT
09/05/2023	MARY THOMAS	MEDICAL HELP (6 MONTHS x 3000)	18000
05/04/2022	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	41500
05/04/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	6070
09/05/2023	YUVA ART'S & SPORTS CLUB	VOLLEYBALL COURT	5000
13/05/2023	KANIV	PALIYETIVE CARE	48000
13/05/2023	KIDNEY PATIENTS	DIALYSIS	5000
17/05/2023	ALBERT TOMY	EDUCATION FEES	33025
18/05/2023	AMMINI GOPALAN, ASANAPALLI	MEDICAL HELP	5000
25/05/2023	GOV. L P SCHOOL PURAPUZHA	STUDENTS UNIFORM, BAG, ETC	60000
06/06/2023	KANIV	PALIYETIVE CARE	48000
17/06/2023	KANIV	PALIYETIVE CARE	47000
17/06/2023	KIDNEY PATIENTS	DIALYSIS	5000
09/06/2023	RAJU NELLIKAPILLIL	MEDICAL HELP	1000
21/06/2023	MINI, KALLINKAL	MEDICAL HELP	1000
24/06/2023	PRASAD K P, KOLLAMPARAMBIL	MEDICAL HELP	5000
05/07/2023	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	58100
08/07/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	6400
11/07/2023	KANIV	PALIYETIVE CARE	51000
02/08/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	7200
02/08/2023	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	50300
05/08/2023	KUNJIKUTTAN MUDAKOLLIL	METERIAL SUPPLY HOUSE WORK	14700
05/08/2023	KIDNEY PATIENTS	DIALYSIS( JULY PAYMENT)	5000
09/08/2023	KANIV	PALIYETIVE CARE	49000
21/08/2023	KIDNEY PATIENTS	DIALYSIS	5000
26/08/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	7600
26/08/2023	ONAM KIT	1455 FAMILIES	2107248
08/09/2023	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	52900
08/09/2023	KANIV	PALIYETIVE CARE	49000
23/09/2023	HASEETHA R, THOTTIPARAMBIL	MEDICAL HELP	2000

**CSR EXPECTURES SNDF RECEIPTS**

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

29/09/2023	KIDNEY PATIENTS	DIALYSIS	5000
30/09/2023	HM & PTA PRESIDENT ST SEBASTIANS HSS VAZHITHALA	STUDENTS BUS FARE	55500
30/09/2023	ST THOMAS LP SCHOOL KOLADY	AUTO CASH	7600
		<b>TOTAL</b>	<b>2862143</b>

EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil

**GOVT. L. P. SCHOOL PURAPUZHA**

PURAPUZHA P.O., THODUPUZHA, IDUKKI (DIST) - 685583

Ph: 04862-273779, Email: glppurapuzha@gmail.com

SCHOOL CODE - 29318

UDISE CODE - 320 907 00 902

രവരവുമാർദ്ദം.

Date 25.05.2023

പ്രൊഫീറ്റർ ലക്ഷ്മണൻ  
കൃഷ്ണമൂർത്തി മെറ്റൽസ് & മെർച്ചന്റൈസ്  
പിഎൽ - തൊടുപുഴ.

re: 2023-24 ഭരണസമയപരിധിയിലെ സർക്കാർ  
പ്രവർത്തനങ്ങൾ കൂടെ 1 ലെ പ്രൊഫൈലിംഗ്-  
തൊഴിലുടമർക്കുള്ള അറിവ് നൽകുന്നതിനായി  
ശ്രീ. കെ. പ്രൊഫീറ്റർ കൃഷ്ണമൂർത്തി മെറ്റൽസ് & മെർച്ചന്റൈസ്  
പിഎൽ കമ്പനിയുടെ വിവരങ്ങൾ  
സംരക്ഷിക്കുന്നതിനായി സർക്കാർ ഉദ്യോഗസ്ഥർക്ക്  
അറിയാൻ കഴിയാത്തവിധം.  
ഈ സമയത്തുതന്നെ ടി. കൃഷ്ണമൂർത്തി മെറ്റൽസ്  
പ്രൊഫൈലിംഗ് തൊഴിലുടമർക്കുള്ള [പ്രൊഫീറ്റർ, മെറ്റൽസ്,  
കമ്പനി.....] ലഭ്യമാക്കുന്നതിന് തൊഴിലുടമർ  
സംരക്ഷണസമയപരിധിയിൽ അറിയാൻ തടയാൻ  
നിന്നു അറിയാതെ സർക്കാർ ഉദ്യോഗസ്ഥർ.  
കൂടെ മറ്റും അറിയാതെ സർക്കാർ ഉദ്യോഗസ്ഥർക്ക്  
അറിയാതെ സർക്കാർ ഉദ്യോഗസ്ഥർക്ക് "പ്രൊഫൈലിംഗ്"  
അറിയാതെ സർക്കാർ ഉദ്യോഗസ്ഥർക്ക് അറിയാതെ  
പി.ടി.സി അറിയാതെ.  
ഇതിനാവശ്യമായ ഒരു CSR റിപ്പോർട്ട് നിന്നു  
അറിയാതെ സർക്കാർ ഉദ്യോഗസ്ഥർക്ക് അറിയാതെ.

വിജ്ഞാപനം.

കൃഷ്ണമൂർത്തി,  
25-05-2023.



  
REMESH KUMAR E.K.  
PEN. 698535  
Headmaster  
Govt. L.P. School  
Purapuzha

Ramesh. 9495692103

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EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil

# Kerala Gramin Bank

Name and address of the Branch

VAZHITHALA (40357)  
VAZHITHALA (PO)  
IDUKKI (DT) - 685583  
Branch : 04862274500 / 9400999357

### REQUEST :

1. Please do not fold the Pass Book.
2. Please preserve your Pass Book with care.
3. Go through the instructions given in the last page of the Pass Book.

eMail ID : kgb357@keralagbank.com  
Website : www.keralagbank.com  
Customer Care : 0484-2912400  
IFSC Code : KLG00040357  
MICR Code : 685480006  
Balance Enq : 9015800400

Account No. : 40357101059003

M/S HEAD MISTRESS AND SMC CHAIRMAN  
GOVT LP SCHOOL  
PURAPUZHA (PO)  
IDUKKI (DT) - 685583

JN 1 : 410086040 SIJO SEBASTIAN  
JN 2 : 413903428 USHA K K

Scheme Code : SB101  
Open Date : 22-11-2021  
Customer ID : 413903764  
AADHAAR No :  
PAN : N  
Mobile No : 9446212771  
Location : PURAPUZHA  
Nomination : N  
Debit Card : N  
eMail ID :

Operated By : JOINTLY  
Cheque Book : Kerala Gramin Bank  
Kerala Gramin Bank  
Asst. Manager / Manager

Senior Manager / Manager  
Vazhithala Branch

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



**View Transaction Details**

Transaction Date:	25-05-2023
Amount Type:	Dr.
Amount:	INR 60,000.00
Nature Of Transaction:	NR1310512314634940005166 purappattakl09/

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

**KANIV Beneficiary List for Account transfer September 2023**

**Manakaduk Grama Panchayat**

Sl.No.	A/c Holder	A/c No	Bank	Branch	IFSC	Amount
MA 2	Aleykutty Issac	67202104800	State Bank of India	Vazhithala	SBIN0070962	1000
MA 6	Ammini Appu	338002010014446	Union Bank of India	Thodupuzha	UBIN0533807	1000
MA 14	Baiju A K	33254532282	State Bank of India	Nediyasala	SBIN0006457	1000
MA 16	Jagadarima	338002010021202	Union Bank of India	Thodupuzha	UBIN0533807	1000
MA 18	Gauriamma Kurjikuttan	40328101066623	Kerala Gramin Bank	Thodupuzha	KLGB0040328	1000
MA 23	Kumari Sreekumar	4355001702005679	Punjab National Bank	Thodupuzha	PUNB0435500	1000
MA 26	Parukutty K O	0722108030732	Canara Bank	Thodupuzha	CNRB0000722	1000
MA 30	Mathai Pathrose	67323931639	State Bank of India	Vazhithala	SBIN0070962	1000
MA 31	Mercy	11210100258690	Federal Bank	Thodupuzha	FDRL0001121	1000
MA 37	Sali Louis	30188238651	State Bank of India	Nediyasala	SBIN0006457	1000
MA 39	Sarojini Sukumaran	32865143845	State Bank of India	Nediyasala	SBIN0006457	1000
MA 40	Sheela D	0806053000000324	South Indian Bank	Thodupuzha	SBIL0000806	1000
MA 41	Shibu Thomas	32668155787	State Bank of India	Nediyasala	SBIN0006457	1000
MA 42	Syjan Thomas	33055429907	State Bank of India	Nediyasala	SBIN 0006457	1000
MA 43	Thankamma Ayyappan	33452841784	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 45	Annie's Sebastian	30322013976	State Bank of India	Nediyasala	SBIN0006457	1000
MA 46	Aravindakshan Nair	33438304010	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 47	Bhavani	67203548926	State Bank of India	Vazhithala	SBIN0070962	1000
MA 50	Nalini Vasu	10550100089533	Federal Bank	Vazhithala	FDRL0001055	1000
MA 55	Valsala Kunjappan	32951554314	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 58	Anil M N	10550100122995	Federal Bank Ltd	Vazhithala	FDRL 0001055	1000

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

MA 59	Mercy	32987339555	State Bank of India	Thodupuzha	SBIN 0008674	1000
MA 60	Molly Babu	20302987028	State Bank of India	Nediasala	SBIN0006457	1000
MA 64	Joseph Mathai	120321200421432	Idukki Dist. Co Bank	Thodupuzha	IDUK0000032	1000
MA 69	Thressia Paulose	32984323559	State Bank of India	Nediasala	SBIN0006457	1000
MA 71	Armini Ayyappan	32954131340	State Bank of India	Thodupuzha	SBIN00068674	1000
MA 72	Subhashini Divakaran	39683230052	State Bank of India	Vazhithala	SBIN0070962	1000
MA 73	Thankamani Prabhakaran	67226875505	State Bank of India	Vazhithala	SBIN 0070962	1000
MA 75	Annakutty Pathrose	67201841483	State Bank of India	Vazhithala	SBIN 0070962	1000
MA 76	Armini Johny	67206434799	State Bank of India	Peruva	SBIN 0070869	1000
MA 77	Jomesh Raju	20395607378	State Bank of India	Nediasala	SBIN0006457	1000
MA 78	Thankamma Gopalan	32664273964	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 79	Sreeja Sajeewan	67354156196	State Bank of India	Thodupuzha Town	SBIN0070155	1000
MA 82	Rajan	121710100045772	Union Bank of India	Thodupuzha	UBIN0812170	1000
MA 83	Bhavani	32993597881	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 84	Geetha Devi	67242878415	State Bank of India	Thodupuzha Town	SBIN0070155	1000
MA 85	Kamaladas Krishnan	40328101056538	Kerala Gramin Bank	Thodupuzha	KLGB0040328	1000
MA 89	Mariyam Augusthy	67202375316	State Bank of India	Vazhithala	SBIN0070962	1000
MA 90	Indira	20176945205	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 91	Narayanan Nair	20263068754	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 92	Raji Gopi	338002010020072	Union Bank of India	Thodupuzha	UBIN0533807	1000
MA 93	Pankajam P P	20213775682	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 94	Mianikandan	67179632202	State Bank of India	Karikode	SBIN0070886	1000
MA 95	Padmavathy	338002010020337	Union Bank of India	Thodupuzha	UBIN0533807	1000
MA 96	Sumathy Narayanan	33070117014	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 97	Thevan	30145807801	State Bank of India	Nediasala	SBIN0006457	1000
MA 98	Thresiamma	10458150881	State Bank of India	Nediasala	SBIN0006457	1000

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

MA 99	Valsa	32679818585	State Bank of India	Nediasala	SBIN0006458	1000
MA 100	Thressiamma	32994541882	State Bank of India	Thodupuzha	SBIN0008674	1000
MA 101	Saramma John	67229254891	State Bank of India	Vazhithala	SBIN0070962	1000
				<b>Total</b>		<b>50000</b>

Please avoid MA 25 Mathawi & add MA 101 Saramma John



**EC Compliance Report for the period of April 2023 to September 2023**  
**Granite building stone quarry of Shri. George Kochuparambil**



Date	Value Date	Particulars	Tran Type	Tran ID	Cheque Details	Withdrawals	Deposits	Balance	Dr/Cr
08-09-2023	08-09-2023	EBIZ TP NJT FINANCE PRIVATE U	TFR	FB32872		7,20,516.00		7,93,143.00	CR
08-09-2023	08-09-2023	EBIZ TP DEKSY GEORGE ALIAS CIS	TFR	FB32879		2,04,000.00		5,93,143.00	CR
08-09-2023	08-09-2023	NFTIFBBI2325113 8118RLOGAN SECURITUBANSE CLRFTYF	TFR	814931228		1,01,996.00		4,92,068.00	CR
08-09-2023	08-09-2023	NFTIFBBI2325113 81174OMEGA TRADINGBARBUN ITED 328	TFR	814591280		1,52,820.00		3,39,748.00	CR
08-09-2023	08-09-2023	EBIZ TP MODERN FLOUR MIL AND	TFR	FB48189		3,09,516.00		90,232.00	CR
08-09-2023	08-09-2023	EBIZ SF XXXX1051550000 4370 U	TFR	FB44320			1,00,000.00	1,90,232.00	CR
08-09-2023	08-09-2023	EBIZ TP ANIL M N UNITED	TFR	FB44332		1,000.00		1,20,232.00	CR
08-09-2023	08-09-2023	EBIZ TP MERCY UNITED	TFR	FB44440		1,000.00		1,20,232.00	CR
08-09-2023	08-09-2023	EBIZ TP NALINI VASU UNITED	TFR	FB44850		1,000.00		1,20,232.00	CR
08-09-2023	08-09-2023	EBIZ NEFT CT6706092110572 8 CBR	TFR	FB35556		46,000.00		81,232.00	CR
08-09-2023	08-09-2023	NFTIFBBI2325113 75798AMMMI AYYAPPISBINI UN TED 329	TFR	816799870		1,000.00		80,232.00	CR
08-09-2023	08-09-2023	NETBBI2309188471 85798Joseph Nuthal 141002000 05064	TFR	816800547			1,000.00	81,232.00	CR
08-09-2023	08-09-2023	UPI IN325149651103 alshamammed19 881098@gk5951	TFR	817082138			9,500.00	90,732.00	CR
08-09-2023	08-09-2023	CASH SELF	CASH	FB105014			5,00,000.00	5,90,732.00	CR

EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil



**THODUPUZHA BLOCK PANCHAYATH  
KIDNEY PATIENTS' WELFARE SOCIETY**

Reg. No. IDK/TC/152/2015

Fourtine Bypass Road, Mangattukavala, Thodupuzha East P.O, Idukki, Kerala - 685 585

President  
**Leelamma Jose**  
Thazhathuveetil  
Mob: 9447157265

General Secretary  
**Joseph Moolasery**  
Mob: 9446479408

Treasurer  
**James Chacko**  
Vazhuthalakkattu  
Mob: 9446290992

No.

Date 23.03.2023

To,

അനീഷ്  
കൊച്ചുപറമ്പിൽ  
വഴിത്തല

സാർ,

തൊടുപുഴ ബ്ലോക്ക് പഞ്ചായത്ത് കിഡ്നി പേഷ്യന്റ്സ് വെൽഫെയർ സൊസൈറ്റിയിൽ 150 ഓളം രജിസ്റ്റർ ചെയ്ത രോഗികൾ ഉണ്ട്. ഇവരിൽ ഭൂരിഭാഗം പേരും ആഴ്ചയിൽ 3 പ്രാവശ്യം ഡയാലിസിസ് ചെയ്യുന്നവരും ക്യാൻസർ രോഗികളുമാണ്. നിർദ്ദനരായ ഇവരെ സഹായിക്കുന്നതിനു വേണ്ടിയാണ് ഈ കത്ത് എഴുതുന്നത്. നാളിതുവരെ സഹായിച്ചതിന് ഞങ്ങളുടെ നന്ദി രേഖപ്പെടുത്തുന്നു. രേലിലും നിങ്ങളുടെ ഭാഗത്തുനിന്നുള്ള സഹായസഹകരണങ്ങൾ പ്രതീക്ഷിക്കുന്നു.

വിശ്വസ്തതയോടെ,



  
**ലീലമ്മ ജോസ്** Joint President  
Kidney Patients' Welfare Society  
Thodupuzha East P.O - 685 585  
Reg. No: IDK/TC/152/2015  
President - General Secretary - Treasurer

EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil

  
സംഘങ്ങൾ രജിസ്റ്റർ ചെയ്യുന്നതു സംബന്ധിച്ച  
സർട്ടിഫിക്കറ്റ്

1956-ലെ 12-ആം തിരുവിനോടുകൂടിയ കെ.പി. സൊസൈറ്റി, അംഗീകരിച്ച, ധർമ്മസംഘങ്ങൾ  
കെ.പി.സൊസൈറ്റി നിയമം

പ്രമാണ നമ്പർ: IDK/TC/152/2015 വർഷം: 2015

1956-ലെ 12-ആം തിരുവിനോടുകൂടിയ കെ.പി. സൊസൈറ്റി, അംഗീകരിച്ച, ധർമ്മസംഘങ്ങൾ കെ.പി.സൊസൈറ്റി  
നിയമം The George Kochuparambil Block Panchayath Kidney Patients Welfare Society

പ്രമാണ നമ്പർ: IDK/TC/152/2015 വർഷം: 2015

പ്രമാണ നമ്പർ: IDK/TC/152/2015 വർഷം: 2015

പ്രമാണ നമ്പർ: IDK/TC/152/2015 വർഷം: 2015



  
സംഘങ്ങൾ രജിസ്ട്രാർ

(2)

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*

  
**Department of Registration**  
Government of Kerala

**ACKNOWLEDGMENT FOR USER NAME**

Your Society have been registered under the Transstore-Cochin ACT in the  
name of Thodupuzha Block Panchayath Kidney Patients Welfare Society on 29/04/2015

User Name: IDKTC/152/2015

NE: -First time login User Name as Password

  
Registrar of Society

*EC Compliance Report for the period of April 2023 to September 2023  
Granite building stone quarry of Shri. George Kochuparambil*



View Transaction Details

Transaction Date:	13-05-2023
Amount Type:	Dr.
Amount:	INR 5,000.00
Nature Of Transaction:	EBN/AG/C700130523103221 CSR