

H&P Granites

6/530 Mankadu,
Kummil P.O Kollam – Dist -691536

Ph.07559945903, 9447267121
Email:handpgranites@gmail.com

H&P/ENV/Compliance/2023-24/02

Date: 15.11.2024

To

1. State Environment Impact Assessment Authority (SEIAA) Kerala
K.S.R.T.C Bus Terminal Complex,
4 th Floor Thampanur,
Thiruvananthapuram – 695 001

2. The Additional Principal Chief Conservator of Forests (C)
Ministry of Environment, Forests & Climate Change,
4 th Floor, E & bF Wing, Kendriya Sadan,
Koramangala, Bangalore -560 034
Karnataka State
Sir,

Sub: Environment Compliance report

Please find enclosed the Six Monthly Compliance report in respect of M/s. H & P Granites (Ref. Environmental Clearance No. 1210(A)/EC2/2019/SEIAA dated: 24.03.2023) for the period from April 2024 to September 2024 for your ready reference. It may kindly be noted that the above report have already been sent by email (seacseiaakerala@gmail.com and rosz.bng-mefcc@gov.in) to your respective offices for record.

Yours faithfully,

(Shrikhande Chaitanya Vinay)

For H&P GRANITES


18.11.2024
Mines Manager

Encl: as above

COMPLIANCE REPORT

Of

M/s. H & P GRANITES

6/530, Kondody

Village: Kummil, Taluk: Kottarakara

District: Kollam, State: Kerala

For the period 1st April 2024 to 30th September 2024

SPECIFIC CONDITIONS:

Sr. No.	Conditions	Precautions Taken	Remarks
1	The Project Proponent shall carry out quarrying as per the approved Mining Plan and the Specific Conditions mentioned hereafter. The Project Proponent should strictly follow the Kerala Minor Mineral Concession Rules 2015 and amendments thereby.	The quarry operations are carried out as per the approved Mining plan & follow KMMCR 2015.	
2	The depth of mining is limited to 135m above MSL considering the depth to the groundwater table and hence a revised Scheme of Mining shall be prepared as per which the total mineable reserve will be reduced to that extent. Department of mining and Geology shall rework the quantity and issue transport permits only for the reworked reduced quantity.	Considering depth of MSL 135m revised mining plan submitted to DMG office for mineable reserves and got approved.	

3	The EC shall be valid from the date of execution of permit/lease from the Department of Mining and Geology. The copy of the lease order should be provided to the SEIAA before commencing the mining activity.	-----Complied with-----
4	The EC issued will be subject to a review by SEAC after 5 years through filed verification to ensure that mining is carried out sustainably as per the EC conditions.	Shall be complied with
5	Monitoring of drainage water should be carried out at different seasons by an NABL accredited lab and clear water should only be discharged into the natural stream. Geo-tagged photographs of the drainage and sampling site should be submitted along with HYCR.	All monsoon water is diverted to quarry pit bottom. There is only one drainage outlet present in mine. Monitoring report attached as annexure IV.
6	Adequate sanitation, waste management and rest room facilities should be provided to the workers.	Adequate sanitation, waste management and rest room facilities are provided to the workers.
7	Adequate energy conservation measures proposed should be implemented including solar power installations for street light and office.	Adequate energy conservation solar power lights are installed near Weigh bridge/office, Plant DG, Canteen road locations.
8	Operation of the H&P Granites and Vismaya Rocks shall be monitored regularly once in 6 months by a committee headed by an Official of the State Pollution Control Board with Project Proponents of H&P Granites and Vismaya Rocks, a representative of Kummil Grama Panchayat, and a representative from Department of mining and Geology as members. The monitoring report of the committee shall be a part of half yearly completion report and the Project proponent shall take all corrective measures as suggested by committee.	An official persons from Kerala state pollution control board conducted inspection on Dated 05 th August 2024. As of now no suggestions are given, whenever we receive any suggestions / directions we will inform and implement.

9	The height and width of the benches are not maintained uniformly as per the stipulations in the approved mine plan and it should be corrected immediately wherever there is inadequacy.	Reduction of height and width of bench is going on and will be finalized soon.
10	The overburden dumping site should be protected with gabion walls to prevent erosion.	Shall be complied where needed.
11	Measures incorporated in the CER should be implemented in total during the first two years and they should be operated and maintained during the subsequent years till the mine closure plan is implemented in total.	Measures taken to implemented in the CER from first year of project and it will operated and maintained during the subsequent years till the mine closure plan implemented in total.
12	Impact of vibration due to blasting should be monitored in terms of Peak Particle Velocity and amplitude for maximum charge per delay and included in the Half Yearly Compliance Report.	The report of blasting vibrations in terms of PPV is attached with HYCR as Annexure II .
13	Compensatory afforestation should be done from the 1st year itself and the coordinates of the area with geo-tagged photos should be submitted in HYCR.	Compensatory afforestation is being carried out and the coordinates of the area with geo-tagged photos attached in HYCR as Annexure III .
14	Garland drains along with silt traps should be provided considering the entire project area and it should be drained to the existing siltation ponds or additional ones. If necessary, the carrying capacity of the siltation ponds and outflow channel should be enhanced.	-----Complied with-----
15	The Project proponent shall carry out the recommendations made after public hearing as per the approved EIA and EMP reports.	Will be taken care

16	The garland drain, silt traps, siltation ponds and outflow channel should be cleaned and de-silted periodically and geo-tagged photographs of the process should be uploaded in the HYCR	The garland drain, silt traps, siltation ponds and outflow channel is cleaned and de-silted time to time. The geo-tagged photograph of de-silted pond attached in HYCR report as Annexure V.	
17	The minutes of the meeting of the EMC along with the action taken report of the decisions of the EMC, authenticated by the Chairman and Environmental Officer of the EMC should be uploaded in the HYCR	-----Complied with-----	
18	The transportation of the mined material should be regulated as per the traffic management plan and no movement of trucks should be allowed during the peak hours in the forenoon and afternoon.	The transportation of the mined material is being regulated as per the traffic management plan and no movement of trucks allowed during the peak hours in the forenoon and afternoon.	
19	Blasting mats should be used during rock blasting to contain the blast, prevent fly rocks and suppress dust.	Blasting mats is provided to control rock blasting, prevent fly rocks and suppress dust.	
20	As per OM no F.No.22-65/2017-IA.III dated 30th September 2020, under Corporate Environmental Responsibility (CER) the Project Proponent should implement the Environment Management Plan (EMP)/CER as directed by SEAC during appraisal, covering the issues to address the environmental problems in the project region, from the beginning of the project, indicating both physical and financial targets year wise. The EMP/CER shall be implemented in consultation with Local Self Govt. Institutions. A copy of the approved EMP/CER shall be made available to the concerned Panchayat for information and implementation support. The indicated cost for implementation of CER activities shall be 2% of the project cost.	-----Complied with-----	

21	<p>In the wake of occurrence of large scale landslides in the state, as per the information provided by the Department of Mining & Geology, it is directed to use only NONEL (Non Electrical) technology for blasting to reduce the vibration of the ground, which is 64 one of the causative factors that triggers landslides, formation of cracks in the surrounding buildings and disturbance to human and wildlife.</p>	<p>To reduce vibrations and other factors mentioned in EC condition NONEL blasting is carried out in quarry. Also no of holes per round is also under control.</p>	
22	<p>As per the directions contained in the OM F.No.22-34/2018-IA.III dated 16th January 2020 issued by MoEF & CC, in obedience to the directions of the Hon'ble Supreme Court the Project Proponent shall, undertake re-grassing the mining area and any other area which may have been disturbed due to his mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The compliance of this direction shall be included in the Half Yearly Compliance Report which will be monitored by SEAC at regular intervals.</p>	<p>-----Shall be Complied with-----</p>	
23	<p>The violation of EC condition may lead to cancellation of EC and action under The Environment (Protection) Act 1986.</p>	<p>Accepted</p>	

For H&P GRANITES

Shrikhande

Mines Manager

(SHRIKHANDE CHAITANYA VINAY)

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-1	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.	-----Complied with-----	
G-2	All the statutory clearances should be obtained, as applicable, by the project proponent from the respective competent authorities including that for blasting and storage of explosives. Copies of all statutory clearances shall be submitted along with First Half Yearly Compliance Report.	-----Complied with-----	
G-3	The project proponent should advertise in newspapers that the project has been accorded Environmental Clearance and copies of clearance letters are available in the Office of State Environment Impact Assessment Authority (SEIAA) and on the website of the Authority at www.seiaakerala.in . The advertisement should be in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language. The advertisement should be made within 10 days from the date of receipt of the Environmental Clearance letter and a copy of the same signed in all pages should be forwarded to the office of this Authority as confirmation.	-----Complied with-----	
G-4	The proponent shall send a copy of the EC to concerned Grama Panchayat/ District Panchayat/ Municipality/ Corporation/ Urban Local Body and also to the Local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The Environmental Clearance shall also be uploaded on the website of the company.	Environment Clearance letter along with the conditions stipulated is submitted to Village panchayat.	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-5	The lease area shall be fenced with barbed wire to a minimum height of 4ft around, before starting mining. All the boundary indicators (boards, markings, etc) shall be conspicuous and maintained at all times.	The entire lease boundary is properly fenced with Barbed wire with concrete pillars. All necessary sign boards are erected at suitable places.	
G-6	The details of Environmental Clearance should be prominently displayed in a metallic board of 3 ft x 3 ft with green background and yellow letters of Times New Roman font size of 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 are displayed in front of Quarry gate.	
G-7	Explosives should be stored in magazines in isolated place specified and approved by the Explosives Department. Mats to reduce fly rock blasts to a maximum of 10 PPV should be provided.	Approved Explosive Magazine is located in the isolated place and all explosive material is kept in Magazine. Mats are provided to reduce fly rocks.	
G-8	Warning alarms indicating the time of blasting (to be done at specific timings) has to be arranged stipulated by Explosive Department.	Blasting operations are always preceded after Siren only, followed by removing all machineries & persons from blasting zone. Blasting Time board is fixed at the entrance of quarry.	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-9	Access roads to the quarry shall be black topped to contain dust emissions that may arise during transportation of materials. The transportation of minerals should be done in covered trucks to contain dust emissions.	Access roads are of interlocking bricks and are widened by same interlocking bricks. It is properly maintained besides regular watering to avoid dust generation during transport of vehicles. Water is sprinkled on the loaded trucks with pipe and Transportation trucks are provided with thick tarpaulin covers to avoid dust problem	
G-10	A separate Environmental Management Cell (EMC) with suitable qualified personnel should be set-up under the chairmanship of a Senior Executive, who will report directly to the Head of the Organization. The Cell should have representative of Biodiversity Management Committee of the Panchayath and a representative of NGO, if any active in the area. The EMC should meet at least once in six months and review the activities and minutes should be a part of the compliance report.	Environment Monitoring Cell is constituted as below: 1. Mr. Harish G Nair (Managing Partner) 2. Mr. Shrikhande Chaitanya Vinay (Member) 3. Mr. Saneesh Mullackal (Member) The EMC meetings conducted regularly at Mines office and minutes of meeting has been kept recorded.	
G-11	Quarrying has to be carried out as per approved mining plan with the suggestions from SEAC incorporated and following KMMC rules 2015 and the Amendments thereby.	Quarrying work is carried out as per the Mining plan.	
G-12	The quarrying operation (Blasting) shall be restricted between 7 AM and 5 PM.	Quarrying operations is restricted to 7 AM to 5 PM	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-13	Rain Water Harvesting facility should be installed as per the prevailing provisions of KMBR/KPBR, unless otherwise specified. Maximum possible solar energy generation and utilization shall be ensured as an essential part of the project.	In quarrying area Rain Harvesting is implemented as all the rain water is collected in the bottom pit.	
G-14	Maximum depth of mining shall be as per the mining plan and as per specific direction of SEAC after field inspection. The maximum depth of mining should not be deeper than the local ground water table. No mining operations should be carried out at places having a slope greater than 45°.	Maximum depth of quarry and mining operation will be followed as per the mining plan as per SEAC.	
G-15	The height of any bench shall not exceed five meters and breadth shall not be less than the height.	Height and width of the benches are maintained as stipulated in EC document	
G-16	The Project proponent shall ensure that no perennial or intermittent natural water course and/or water resources are 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.	Shall be followed but there is no stream in and around Lease area.	
G-17	A minimum buffer distance specified as per existing rules and statutory orders shall be maintained from the boundary of the quarry to the nearest dwelling unit or other structures, and from forest boundaries or any other ecologically sensitive and archeologically important areas or the specific distance specified by SEIAA in EC as per the recommendations of SEAC depending on specific local conditions.	A buffer zone is maintained all along the lease boundary.	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-18	<p>The proponent should plant seedlings at least 5 times of the loss of trees that has occurred while clearing the land for the project and follow planting measures as suggested by SEAC. Suitable avenue trees should be planted along the sides of the approach road and internal roads and open parking areas, if any. Preference should be given to endemic native and fruit bearing species. Planting in buffer areas should be taken up beforehand. Proper upkeep and maintenance of planted seedlings shall be ensured by the project proponent.</p>	<p>Plantation is being carried out as we go further in quarrying operations. As specified in EC fruit bearing species like Banana, coconut is planted.</p>	
G-19	<p>The proponent should ensure that the vegetation in the buffer is retained, maintained and strengthened with additions of native broad leaved plants.</p>	<p>Will be followed</p>	
G-20	<p>Eco-restoration including the closure of mine as per the progressive closure plan and final closure plan shall be done at the cost of the project proponent. This eco-restoration should follow scientific standards available for restoration, full recovery of the original vegetation and improving the resilience of different ecosystems. Overburden materials should be managed within the site and used for reclamation of mined pit as per mine closure plan / specific conditions.</p>	<p>-----Shall be complied with-----</p>	
G-21	<p>At least 10 percent out of the total excavated pit area should be retained as water storage areas and the remaining area should be reclaimed with stacked dumping and overburden and planted with suitable indigenous plant species, if no other specific condition on reclamation of pit is stipulated in the E.C. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining.</p>	<p>As per the stipulation 10 % of total lease area using for water storage for sprinkling and crushing purpose. Reclamation of older pit is being carried out side by side in stacked dumping.</p>	
G-22	<p>Control measures on noise and vibration prescribed by KSPCB should be implemented. Quarrying activities should be limited to day time as per KSPCB guidelines/specific conditions.</p>	<p>Quarrying activities is being carried out in a day time. Control measures on noise and vibration is carried out on regular basis as per KSPCB.</p>	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-23	Periodical monitoring of the vibration at specified location (preferably at a distance of 50 m and 100 m) to be conducted and records kept for inspection. This could also form a part of the compliance reports.	Blasting vibration studies carried out as per the EC stipulations. Report of such attached with compliance as Annexure II .	
G-24	Speed of trucks entering or leaving the mine site is to be limited to moderate speed of 25 kmph to prevent undue noise from empty trucks.	Speed of trucks entering or leaving the mine site is maintained moderate speed of 25 kmph to prevent undue noise. Sign board with specific speed limit also marked.	
G-25	Acoustic enclosures should be provided to reduce sound amplifications in addition to the provisions of green belt and hollow brick envelop for crushers so that the noise level is kept within prescribed standard limit indicated by CPCB/KSPCB.	Thick vegetation of trees and total covering of the crusher is done to suppress sound amplifications.	
G-26	Blasting should be done in a controlled manner using NONEL technique as specified by the regulations of Petroleum and explosive safety organization (GOI) or any other concerned authorized agency. A licensed person should supervise/ control the blasting operations.	Controlled blasting is being carried out by using NONELs and also by restricting the number of holes blasted in a round. Mine Foreman/Mine Mate/Blaster (Certified by the Director General of Mines Safety) will supervise the blasting operations in the quarry.	
G-27	Measures should be taken for maintaining noise levels below 85 dBA in the work environment.	Regular monitoring of Noise level is being conducted and overall noise level is kept under permitted level.	
G-28	Project proponent should obtain necessary prior permission of the competent authorities for drawing requisite quantity of surface water and ground water for the project.	Shall be obtained whenever necessary	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-29	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 compliance reports to SEIAA.	There is no stream in and around Lease area	
G-30	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, and for green belt development etc. The drains shall be regularly desilted and maintained properly, particularly after monsoon.	Catch drains and siltation ponds are provided to arrest the eroded material.	
G-31	Regular monitoring of ground water level and quality shall be carried out around the mine area during mining operation. If any stage, if it is observed that ground water table is getting depleted due to the mining activity; necessary corrective measures shall be carried out.	The mining activities are restricted to the area of above general ground water table and will not intersect Ground water table.	
G-32	Garland drains and silt traps are to be provided in the slopes around the core area to channelize storm water. De-silting of Garland canal and silt traps have to be attended on a daily basis. A labour has to be specifically assigned for the purpose. The proponent shall ensure the quality of the discharging storm water as per the General Effluent Discharge Standards of CPCB.	Quarry area is provided with garland drains so that all storm water is diverted in the pit and from there it is diverted to settling pond. Other areas are provided with drains to divert the water to the main drainage.	
G-33	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 environmental parameters/impacts as assessed, based on which the E.C was issued, the project would require a fresh appraisal by this Authority, for which the proponent shall apply and get the approval of this Authority. In the case of transfer of ECs, the matter shall be intimated and get the approval from the Authority as per the existing norms.	Shall be Complied with	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-34	<p>The stipulations by Statutory Authorities under different Acts and Notifications should be complied with, including the provisions of Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification, 2006.</p>	<p>All stipulations are being complied with</p>	
G-35	<p>The top soil, if any, shall be temporarily stored at earmarked place (s) and 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 8m and width 20m and overall slope of the dumps shall be maintained at 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. At critical points, use of geo textile shall be undertaken for stabilization of the dump. Protective wall or gabions should be made around the dump to prevent erosion / flow of sediments during rains. The entire excavated area shall be backfilled.</p>	<p>Topsoil is stored separately and will be using during plantation. Dump is maintained as per the Approved Mining Plan.</p>	
G-36	<p>All the mining equipment used in Mining like backhoe loaders and excavators cause pollution and hence shall be serviced regularly & maintained for their efficient functioning and for reducing pollution. Disposal of spent oil from diesel engines should be as specified under relevant Rules/ Regulations.</p>	<p>Proper maintenance of machineries/vehicles are practiced to minimize the pollutions. Spent/burnt oil released from machinery/vehicles are disposed in a specified manner of State Pollution Control Board</p>	
G-37	<p>All vehicles used for transportation and within the mines shall have 'PUC' certificate from authorized pollution checking centre. Washing of all vehicles shall be inside the lease area. .</p>	<p>This is being strictly implemented</p>	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-38	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution such as haul road, loading and unloading points and transfer points and having high levels of PM10 and PM2.5. 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.	Two water tanker of 10 K capacity is kept in quarry area and water is sprinkled on regular basis	
G-39	Fugitive dust emissions from all the sources should be controlled regularly. Water spraying arrangement at project site, parking area, on haul roads, loading and unloading and at transport points should be provided and properly maintained.	Haul roads and transfer points are regularly watered to avoid dust generation	
G-40	Corporate Environmental Responsibilities (CER) as prescribed by SEIAA/SEAC should be carried out leading to Environmental stability of the Project region. The activities carried out under CER should be a part of the half yearly compliance report. The certificates from the beneficiaries, if the CER part is completed should also be submitted to the State Environment Impact Assessment Authority (SEIAA) along with year wise expenditure.	Corporate Environmental Responsibilities (CER) is being carried out and details of month wise expenditure is attached as Annexure I .	
G-41	The project proponent is responsible for implementing all the provisions of labour laws applicable from time to time to quarrying /Mining operations. The workers on the site should be provided with on-site accommodation or facilities at a suitable boarding place, protective equipment such as ear muffs, helmet, etc.	All workers are provided with personal protective equipment's such as Helmet, safety shoes and other items as prescribed by DGMS. Accommodations and other facilities are provided to all the workers on site.	
G-42	The proponent has to provide insurance protection to the workers in the case of existing mining or provide the affidavit in case of fresh lease before execution of mining lease.	-Shall be complied-	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-43	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. The report of health surveillance programme should be included in the half yearly compliance reports.	Occupational health surveillance will be carried out.	
G-44	The pits in the abandoned quarries and in the mined area shall be used for activities like water harvesting, aqua culture etc. in an eco-friendly manner.	The abandoned pits are used for Rain water harvesting. The water is used for water sprinkling and for crushing plant.	
G-45	If Government land is partly or fully used for mining, the area shall be returned at the end of lease period after mine closure with separate demarcation with suitable survey marks.	Shall be Complied	
G-46	Any accident occurring in the mined out area after the lease period due to negligence in carrying out safety measures and non-closure , will lead to suspension of all EC obtained for mining by the Proponent.	-Accepted-	
G-47	In case of transfer of EC the matter shall be intimated and approval from the Authority shall be obtained as per the existing norms.	Shall be Complied	
G-48	The proponent shall submit Half Yearly Compliance Reports (1 st of June & 1 st of December) on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) and upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall be simultaneously sent to the respective Regional Office of Ministry of Environment, Forests and Climate Change, Govt. of India and also to the Office of State Environment Impact Assessment Authority (SEIAA). The proponent has to submit Environmental statement in form V of Environment (Protection) Rules 1986 to SPCB on 31st March every year.	Compliance reports being sent to SEIAA – Kerala Office and Regional office of MoEF – Bangalore	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-49	The project authorities should extend full cooperation to the officer (s) from the Regional Office of MOEF & CC located at Bangalore /SEAC /SPCB /CPCB/dept of Mining and Geology, while monitoring compliance of the stipulated conditions, by furnishing the requisite data/ information/ monitoring reports.	-Shall be complied-	
G-50	The above conditions shall prevail notwithstanding anything to the contrary, in consistent, or simplified, contained in any other permit, license on consent given by any other authority for the same project.	-Not applicable-	
G-51	The Authority reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the Environment Clearance under the provisions of the Environment (Protection) Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Will accept in case of any such violations of the provision of EC.	
G-52	The EC given will be withdrawn at any time if the area is declared high hazardous by the SDMA.	-Accepted-	
G-53	The Environmental Clearance will be subject to the final order of the courts on any pending litigation related to the land or project, in any court of law.	-Will abide by the verdict -	
G-54	Any appeal against this Environmental Clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Will comply with any outcome of NGT	

Item No.	Stipulations In EC	Status of Compliance	Remarks
G-55	Concealing the factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	No data is concealed and no false/fabricated data is furnished to the authority as per our knowledge and belief	
G-56	The SEIAA may revoke or suspend the order, for non-implementation of any of the specific or any of the above conditions. The SEIAA reserves the right to alter/modify the above conditions or stipulate any further condition in the interest of environmental protection.	Will accept is case of any such violations of the provision of EC	
G-57	As per regulation no. 106(2) of metalliferous mines regulation under Mine act, the height of any bench shall not exceed six meters and breadth shall not be less than the height.	Height and width of the benches are maintained as stipulated in EC document	

For H&P GRANITES

Chrikhande
Mines Manager

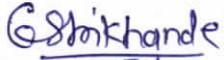
(SHRIKHANDE CHAITANYA VINAY)

ANNEXURE - I

CER Details

Sl. No.	Area of Intervention	Expenses (in Rs.)
1	Promotion of education in School, college in Kummil, Thulasimukku village (Smart Classroom, Maintenance work of urinal block, Sports Equipment's, Children's park & Maintenance)	1,59,500
2	Drinking water supply in ward No.6 & 22 of Kummil G P.	3,24,000

For H&P GRANITES


Mines Manager

ANNEXURE - I

M/s. H & P GRANITES
6/530, Kondody
Village: Kummil, Taluk: Kottarakkara
District: Kollam, State: Kerala
For the period 1st April 2024 to 30th September 2024

**DETAILS OF EXPENDITURE UNDER CORPORATE SOCIAL RESPONSIBILITY FROM
April 2024 to September 2024**

SR. NO.	DATE	PARTICULARS	AMOUNT	REMARKS
1	02-04-2024	MANKADU KALARI SHASTHA TEMPLE	50000	
2	02-04-2024	KETTUKAZHCHA , BOOTHATHANKAVU NIVASIKAL	1000	
3	03-04-2024	MUTHURASOOL SAHAYA SANKHAM , KUMMIL	2000	
4	06-04-2024	KOTTARAKKARA BAR ASSOCIATION SPORTS COMMITTEE	25000	
5	09-04-2024	KETTUKAZHCHA , BOOTHATHANKAVU NIVASIKAL	1000	
6	11-04-2024	KERALA TODAY	1500	
7	14-04-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	4000	
8	16-04-2024	HARITHA KARMA SENA , KUMMIL PANCHAYATH	200	
9	16-04-2024	T. M SHUTTERING AND SCAFFOLDING , PULLIPACHA	1250	
10	18-04-2024	ADAPPUPARA SREE AYIRAVILLI TEMPLE , PULIKKARA	500	
11	24-04-2024	SREE BHADRAKALI SIVA TEMPLE , PEZHUMOODU	1500	
12	30-04-2024	IDAVOOR KONATHUKAVU SREE BHUVANESWARI TEMPLE	2000	
13	04-05-2024	MANKADU VAYANASHALA & GRANDHASHALA	25000	
14	07-05-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA (ROYAL BROTHERS)	10000	
15	07-05-2024	ALL INDIA CULTURAL FEST FOR THE DEAF	500	

ANNEXURE - I

16	10-05-2024	THOOTTIKKAL PALAMKONAM CHARUKAVU SREE MAHADEVA TEMPLE	500	
17	14-05-2024	EAGLES INSTITUTION CSR ACTIVITIES(FD BANK MVTA)	35400	
18	14-05-2024	ASSISTANCE TO GOWRI K(FD BANK MVTA)	30000	
19	15-05-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	4000	
20	15-05-2024	HARITHA KARMA SENA , KUMMIL PANCHAYATH	200	
21	18-05-2024	MEDIA CENTRE	500	
22	24-05-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	80000	
23	27-05-2024	SREE AYIRAVILLI TEMPLE , MULLAKKARA	2000	
24	27-05-2024	KADALLOOR MADAM SIVA TEMPLE , MATHIRA	500	
25	29-05-2024	NANMA CHARITABLE FOUNDATION	500	
26	29-05-2024	BINDHU - MEDICAL ASSISTANCE	20000	
27	31-05-2024	T.M SHUTTERING AND SCAPHORDING ,KONDODY	7250	
28	31-05-2024	T.M SHUTTERING AND SCAPHORDING ,KONDODY	8400	
29	02-06-2024	JEEVANAM CHARITABLE TRUST	500	
30	10-06-2024	MASTER BLASTERS LEAGUE , KUMMIL	2000	
31	14-06-2024	SREE ATTUPURAM VENNIYODU CHAVARUKAVU MAHADEVA TEMPLE , PULLIPACHA	3000	
32	15-06-2024	KUMMIL HARITHA KARMA SENA	200	
33	15-06-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	4000	
34	19-06-2024	MATHIRA KOYIKKAL NAGARUKAVU	1000	
35	20-06-2024	NANMA CHARITABLE TRUST	500	
36	05-07-2024	MAMMANIYA BANATH YATHEEM KHANA , MUKKUNNAM	25000	
37	09-07-2024	SREE DHARMA SHASTA TEMPLE , ILAVUMCONAM	5000	
38	13-07-2024	HARITHA KARMA SENA , KUMMIL PANCHAYATH	200	

ANNEXURE - I

39	16-07-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	5000	
40	16-07-2024	PANAKKAD SAYYID MUHAMMADALI SHIHAB THANGAL SANTHWANAVEDI (PMSV)	500	
41	10-08-2024	HARITHA KARMA SENA , KUMMIL PANCHAYATH	200	
42	17-08-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	4000	
43	21-08-2024	SREEKRISHNA JAYANTHI PANGALUKADU	2000	
44	23-08-2024	FEDERATION OF SC/ST	500	
45	28-08-2024	KAIRALI KALA - KAYIKA SAMITHI	2500	
46	31-08-2024	MUNEERUL ISLAM MILAAD COMMITTEE, THALAVARAMBU, MANKODU	4000	
47	02-09-2024	KAIRALI KALA - KAYIKA SAMITHI	2500	
48	02-09-2024	JEEVANAM CHARITABLE TRUST	500	
49	03-09-2024	THATTUPALAM PAURASAMITHI	3000	
50	05-09-2024	MUTAYIL JANAKIYA KOOTTAYIMA	4000	
51	07-09-2024	KONDODY TOWN JUMA MASJID,KUMMIL (PO), KADAKKAL- NABI DINAM	36000	
52	07-09-2024	SREE AYIRAVILLI MAHADEVA TEMPLE , NADAPPARA	1000	
53	08-09-2024	KUMMIL GRAMA PANCHAYAT,STADIYATHINU BHOOMI VANGAL FUND, SAMBHAVANA RECIPT	600000	
54	11-09-2024	HARITHA KARMA SENA , KUMMIL PANCHAYATH	200	
55	11-09-2024	SAMGACHETHANA KALAKAYIKA SAMATHI,MULLAKKARA	2500	
56	12-09-2024	YUVANAYA ARTS&SPORTS CLUB, PALLIKKUNNU	500	
57	12-09-2024	KARUNYADEEPAM CHARITABLE SOCIETY, KUMARAPURAM	500	
58	12-09-2024	E.K.NAYANAAR ARTS AND SPORTS CLUB, KUMMIL	1000	
59	12-09-2024	NOORUL HUDA MASGID,OONNANKALLE,KUMMIL-NABI DINAM	26000	

ANNEXURE - I

60	20-09-2024	YUVADEEPTHI SNEHA SPARSHEM WHATSAPP KOOTAAYMA, SAMBHAVANA RASEED	27000	
TOTAL			10,79,500	
MATERIAL SUPPLY				
	DATE	PARTY	AMOUNT	
1	05-04-2024	SEENATH ,OONNENKALLU , KL 21 C 2999	7004	
2	05-04-2024	SEENATH ,OONNENKALLU , KL02 BH 4159	7245	
3	20-04-2024	SURESH , MATHIRA	5880	
4	01-05-2024	SALI , KUMMIL - KL 39 D 9726	725	
5	02-05-2024	NOUSHAD , PARAVILAVEEDU, OONNENKALLU - 140 Cft	6762	
6	03-05-2024	REJITHA - 23 cft Dust , 22 cft 20 mm	2174	
7	04-05-2024	JOY , KUMMIL , 30 CFT	1449	
8	08-06-2024	NASEEMA , THETTIMUKKU - 143 Cft	6907	
9	13-06-2024	ANIL KUMAR , KONDODY - 140 Cft	6762	
10	18-06-2024	V JAYAN , OONNENKALLU - 50 Cft	2415	
11	18-06-2024	MADHU , THACHONAM - 155 Cft	7487	
12	19-07-2024	ATHIRA , GOVT HSS , KUMMIL - 155 CFT - 20 MM	7487	
13	25-07-2024	ATHIRA , GOVT HSS , KUMMIL - 155 CFT - M SAND	9114	
14	27-07-2024	SHAMEEM , KARICHIRA - DUST 182 CFT	8791	
15	09-08-2024	VALAMONKAVU DEVI TEMPLE, IDAKKODU, CHADAYAMANGALAM	6723	
16	10-08-2024	ANANTHU CHANNAPETTA, 54 CFT, 20MM	2608	
17	14-08-2024	JAHANGIR , DUST - 10.540 Ton	10514	
18	15-08-2024	ATHIRA , 4MM DOWN TO ZERO DUST -7.500 Ton	8663	
19	20-08-2024	DHARUL ULUM MADRASA , PULLIPACHA - 20MM METAL - 10.520 TON , KL 48 C 4868	10494	

ANNEXURE - I

20	24-09-2024	ATHUL, THULASSIMUKKU- 48cft DUST	2318	
21	26-09-2024	SAJU, NAGAROOR-40MM down to zero metal-130 cft	5460	
22	02-10-2024	LAIJU, SAMBRAMAM-2.5MM down to zero washed T-1.840 TON	2512	
23	09-10-2024	CHANDRAN PILLA, THULASSIMIKKU, Dust 3.560 ton, 20mm Metal 3.560 ton., KL02AH7094	7102	
24	11-10-2024	BABU.K-7592817217	2500	
TOTAL			1,39,096	

For H&P GRANITES


Mines Manager

Date/Time Manual at 11:05:02 November 8, 2024
Range Geo: 254.0 mm/s
Record Time 86.5 sec at 4096 sps
Job Number: 3
Operator/Setup: Operator/H AND P.MMB

Serial Number UM22446 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration July 29, 2024 by UES New Delhi
File Name ___TEMP.EVT

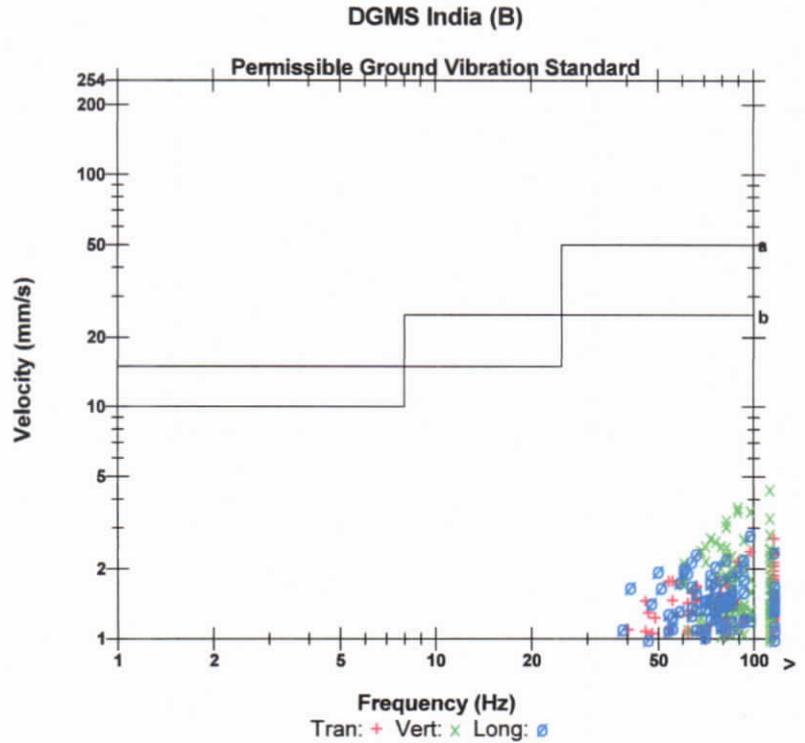
GPS Location **Latitude** **Longitude**
 Source: 000 0.000 N 000 0.000 W
 Sensor1: 000 0.000 N 000 0.000 W
 Distance: 000.0 m

Notes
 Location: 8 48.167 N 76 56.220 E
 Client:
 User Name: H AND P
 General: EASTERN TOP BENCH 3

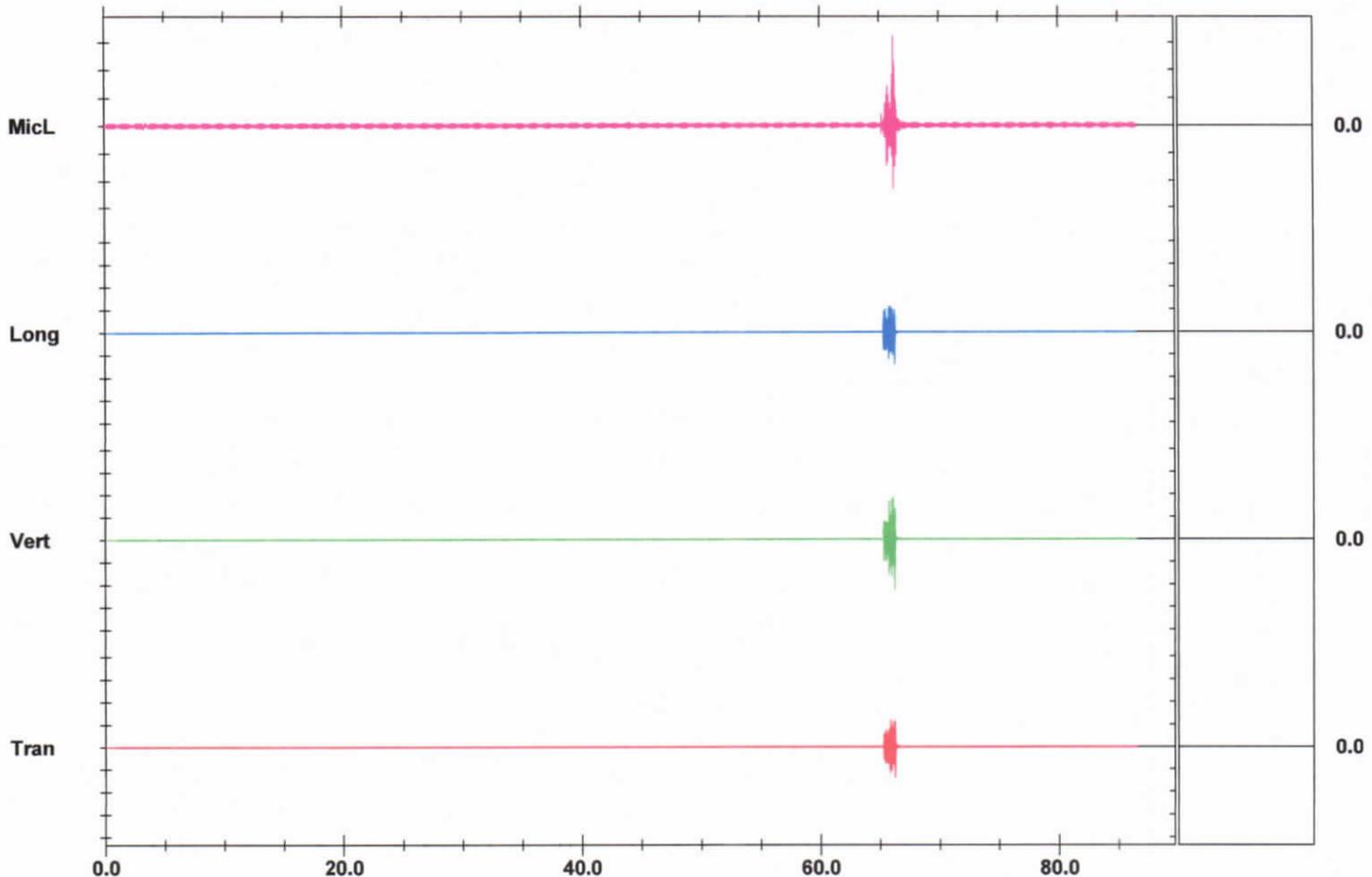
Microphone Linear Weighting
PSPL 32.44 pa.(L) at 66.176 sec
ZC Freq 54 Hz
Channel Test Disabled

	Tran	Vert	Long	
PPV	2.703	4.469	2.822	mm/s
ZC Freq	137	102	98	Hz
Time (Rel. to Trig)	66.242	66.218	66.245	sec
Peak Acceleration	0.306	0.359	0.234	g
Peak Displacement	0.005	0.006	0.005	mm
Sensor Check	Disabled	Disabled	Disabled	
Frequency	***	***	***	Hz
Overswing Ratio	***	***	***	

Peak Vector Sum 4.564 mm/s at 66.219 sec



a) Industrial buildings
 b) Domestic houses/structures



Time Scale: 5.00 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div

Sensor Check

Date/Time Manual at 11:15:28 November 8, 2024
Range Geo: 254.0 mm/s
Record Time 54.125 sec at 4096 sps
Job Number: 4
Operator/Setup: Operator/H AND P.MMB

Serial Number UM22446 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration July 29, 2024 by UES New Delhi
File Name __TEMP.EVT

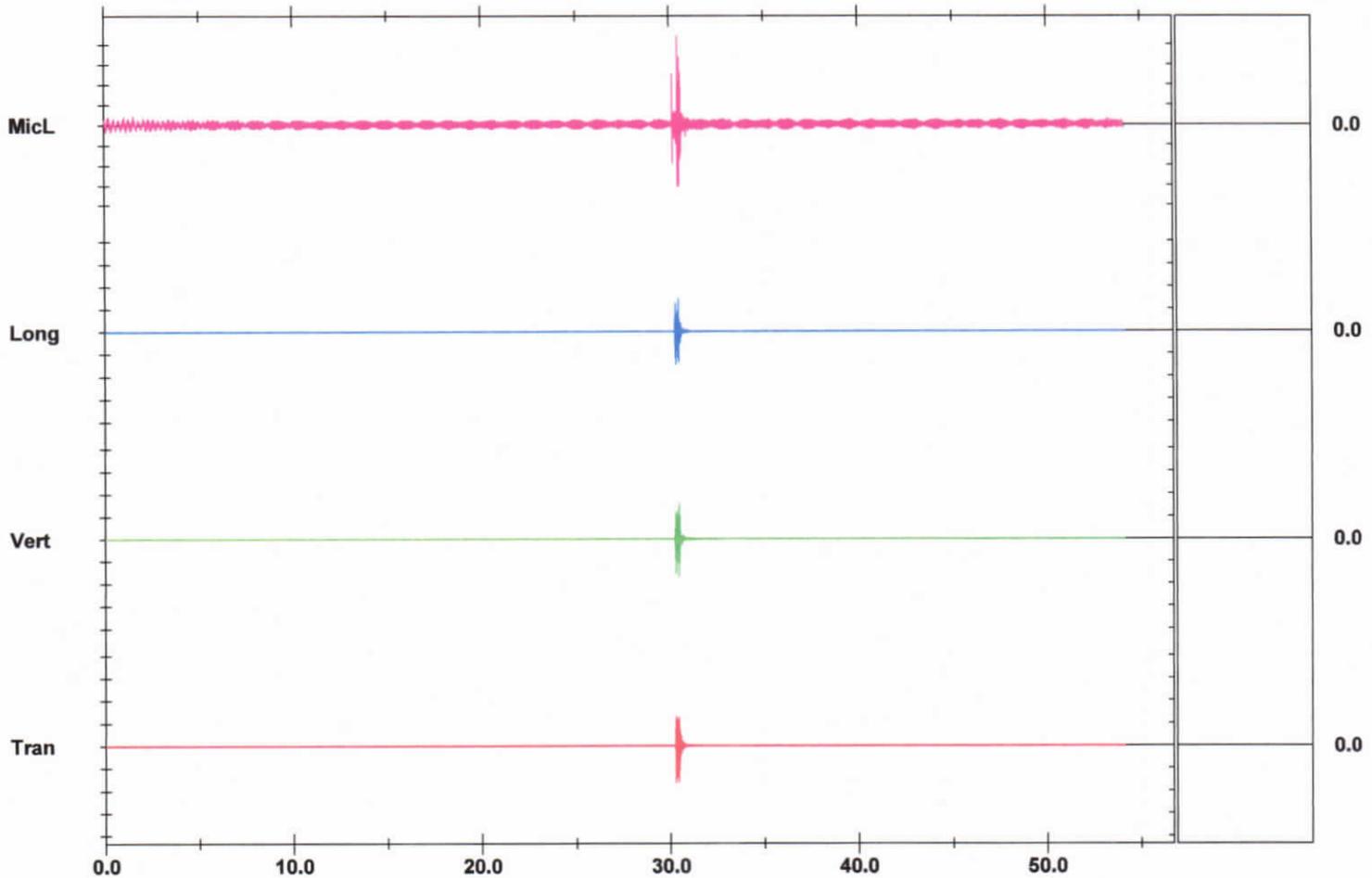
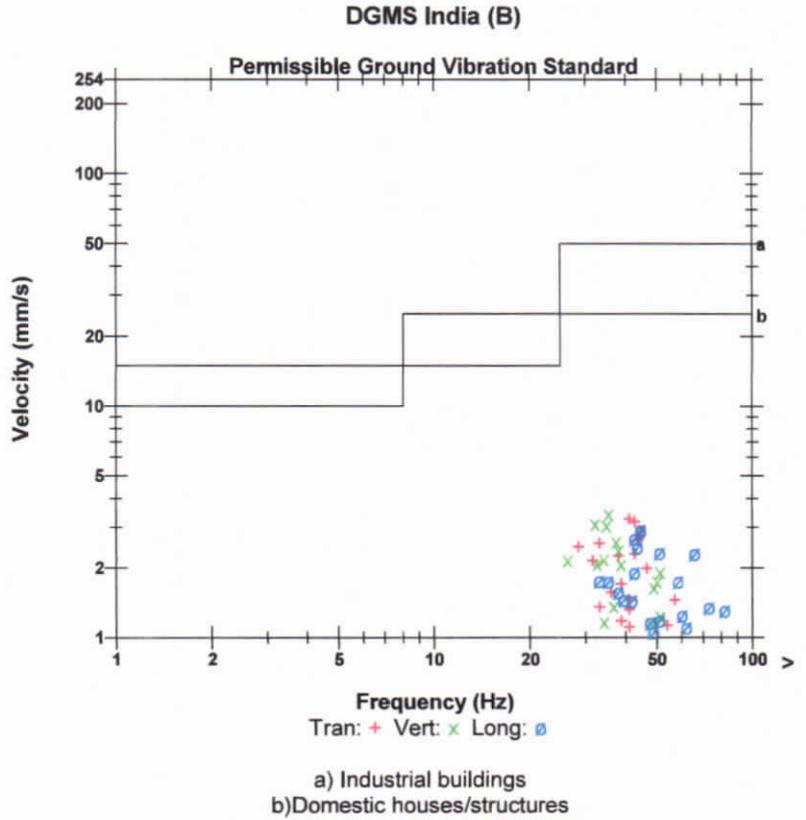
GPS Location **Latitude** **Longitude**
 Source: 000 0.000 N 000 0.000 W
 Sensor1: 000 0.000 N 000 0.000 W
 Distance: 000.0 m

Notes
 Location: 8 48.167 N 76 56.220 E
 Client:
 User Name: H AND P
 General: WESTERN TOP BENCH 4

Microphone Linear Weighting
PSPL 8.875 pa.(L) at 30.426 sec
ZC Freq 205 Hz
Channel Test Disabled

	Tran	Vert	Long	
PPV	3.263	3.452	2.948	mm/s
ZC Freq	41	35.3	45	Hz
Time (Rel. to Trig)	30.269	30.445	30.298	sec
Peak Acceleration	0.102	0.138	0.112	g
Peak Displacement	0.014	0.017	0.010	mm
Sensor Check	Disabled	Disabled	Disabled	
Frequency	***	***	***	Hz
Overswing Ratio	***	***	***	

Peak Vector Sum 4.454 mm/s at 30.447 sec



Time Scale: 5.00 sec/div **Amplitude Scale:** Geo: 2.000 mm/s/div Mic: 2.000 pa.(L)/div

Sensor Check

Date/Time Manual at 11:17:24 November 8, 2024
Range Geo: 254.0 mm/s
Record Time 55.5 sec at 4096 sps
Job Number: 5
Operator/Setup: Operator/H AND P.MMB

Serial Number UM22446 V 10-90GC Micromate ISEE
Battery Level 3.8 Volts
Unit Calibration July 29, 2024 by UES New Delhi
File Name __TEMP.EVT

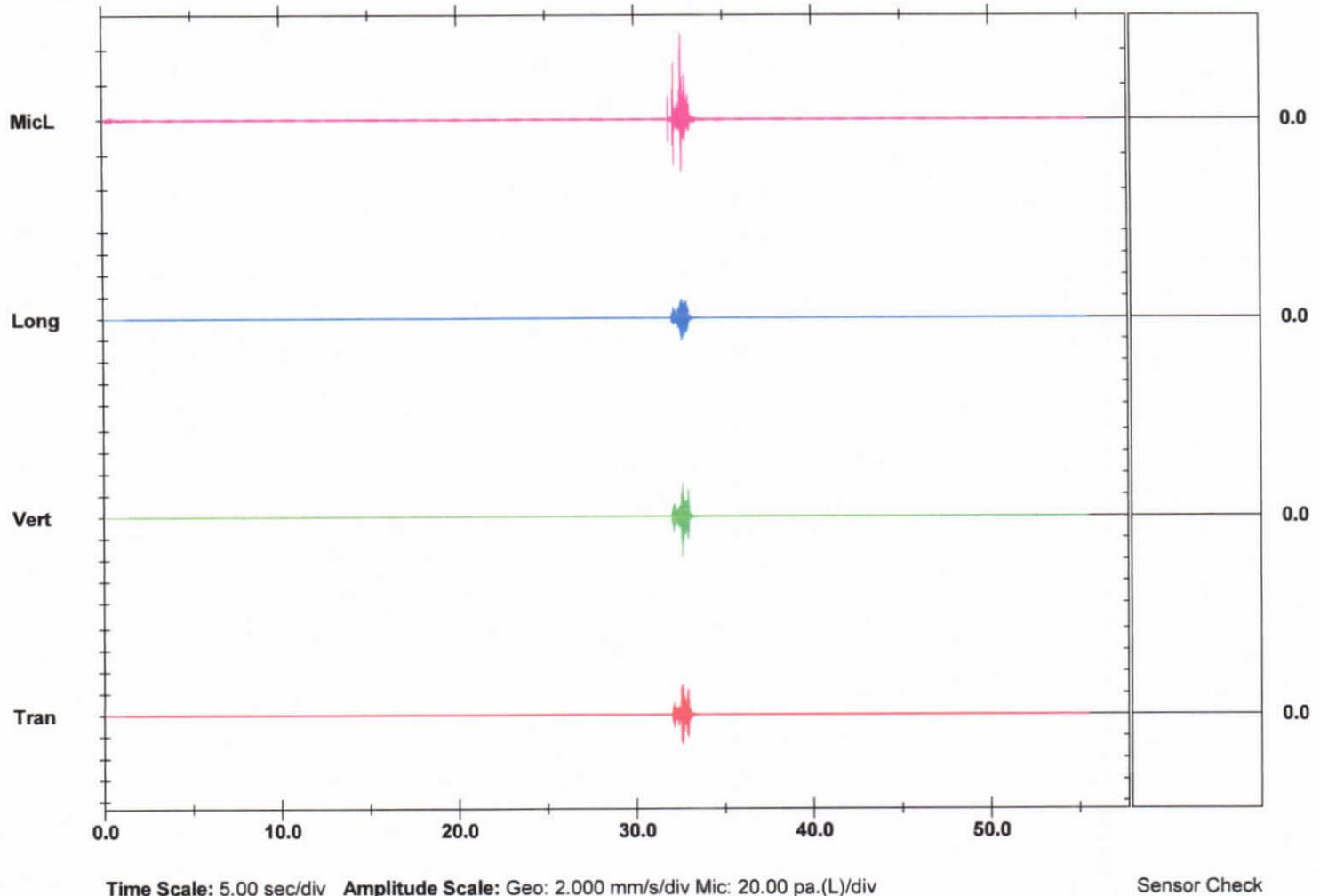
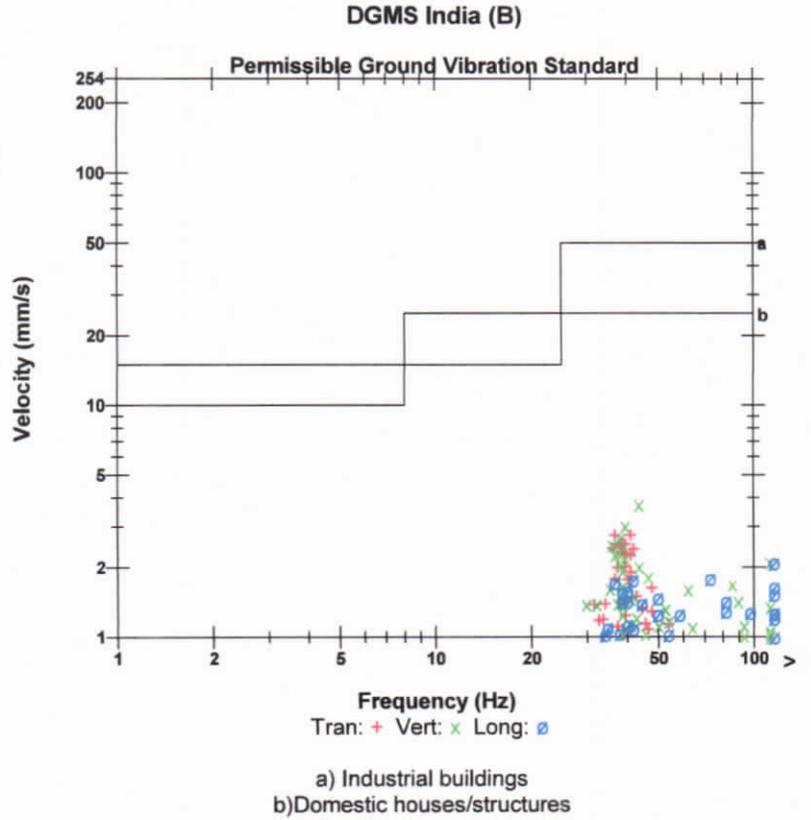
GPS Location **Latitude** **Longitude**
 Source: 000 0.000 N 000 0.000 W
 Sensor1: 000 0.000 N 000 0.000 W
 Distance: 000.0 m

Notes
 Location: 8 48.167 N 76 56.220 E
 Client:
 User Name: H AND P
 General: WESTERN TOP BENCH 5

Microphone Linear Weighting
PSPL 49.07 pa.(L) at 32.624 sec
ZC Freq 68 Hz
Channel Test Disabled

	Tran	Vert	Long	
PPV	2.751	3.752	2.097	mm/s
ZC Freq	36.6	44	102	Hz
Time (Rel. to Trig)	32.550	32.614	32.589	sec
Peak Acceleration	0.132	0.171	0.132	g
Peak Displacement	0.012	0.011	0.006	mm
Sensor Check	Disabled	Disabled	Disabled	
Frequency	***	***	***	Hz
Overswing Ratio	***	***	***	

Peak Vector Sum 4.459 mm/s at 32.614 sec

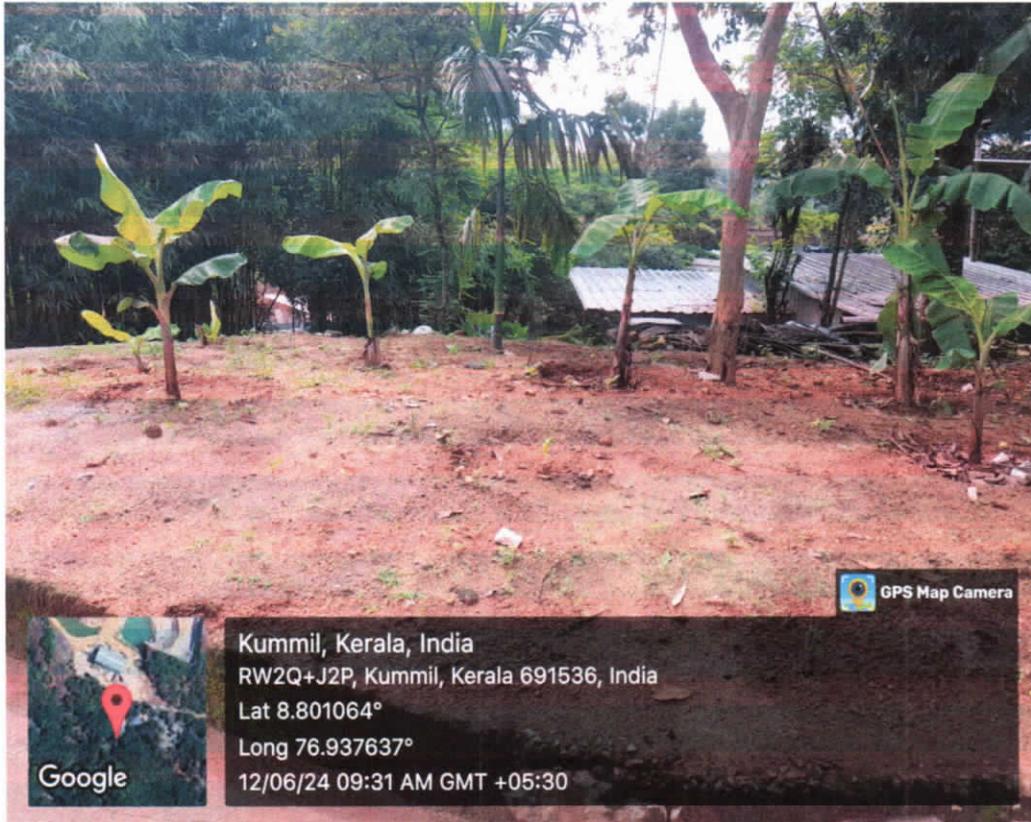




Coconut Plantation near Mine Boundary



Banana Plantation near Mine Office



Banana Plantation near Canteen



POLUCHEM LABORATORIES PVT LTD
CHEMICAL, ENVIRONMENTAL AND MICROBIOLOGY LABORATORY
 PALLATH BUILDING, NORTH KALAMASSERY, ERNAKULAM - 683104
 Phone : 0484-2544030, 8281982322, 9747400085 www.poluchem.com, poluchem@gmail.com

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TEST REPORT

Page 01 of 01

Ref No. PL/RT/BW/4072/2024

Date of Issue: 16/05/2024

Name & address of customer

: M/s.H and P Granites
 Re.Survey. No.s-465/04pt,465/05,481/01-1,
 481/01-2,482/02,482/02-2,482/02-3,482/04,482/05,482/06,483/04
 Village-Kummil
 Panchayath: Kummil
 Taluk- Kottarakkara
 District- Kollam, Kerala

Sample drawn by

: PoluChem Laboratory Sample Collector

Sample description

: Drainage Water

Location of sampling

: Drainage Water -South East Side

Date of sample collected

: 10/05/2024

Date of analysis started

: 11/05/2024

Date of completion of analysis

: 15/05/2024

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 - 1983 RA2017	6 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 - 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 - 1984 RA2017	0.8 NTU	1 NTU
pH	IS 3025 (P) 11 - 1983 RA 2017	6.87	6.5 - 8.5
Total Dissolved Solids	IS 3025 (P) 16 - 1984 RA2017	187 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 - 1983 RA2014	121.4 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 - 1986 RA2014	98.5 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 - 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 - 1988 RA2014	22.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 - 1991 RA2014	18.5 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 - 1994 RA2014	16.2 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 - 2003 RA2014	0.58 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 - 1986 RA2009	9.6 mg/l	200 mg/l
Fluoride as F ⁻	IS 3025 (P) 60 - 2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P) 49 - 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025 (P) 59 - 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025 (P) 41 - 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025 (P) 47 - 1994 RA2014	BDL	0.01 mg/l
Coliforms (MPN/100ml)	IS 1622: 1981 RA 2009	Absent	Absent
E.coli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL - Below Detection Level

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

* End of the report*

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

SREEJA RAMESH
 ANALYST
 POLUCHEM LABORATORIES PVT LTD



POLUCHEM LABORATORIES PVT LTD

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TEST REPORT

Client Name & Address	Certificate No:	PL/RT/SO/4073/2024
M/s.H and P Granites 6/530.Mankada Kummil P.O.	Date of issue:	16/05/2024
	Date of monitoring	10/05/2024
	Monitoring Location	M/s.H and P Granites Re.Survey. No.s- 465/04pt,465/05,481/01-1, 481/01-2,482/02,482/02-2,482/02- 3,482/04,482/05,482/06,483/04 Village-Kummil Panchayath: Kummil Taluk- Kottarakkara District- Kollam, Kerala
	Sample Description	Soil
Parameter	Test Method	Results
pH	IS 2720(Part25)-1973	6.87
Electrical Conductivity	IS 14767:2000RA2016	68 µS/cm
Potassium as K	EPA 3050 B	58 mg/kg
Phosphorus as P	IS 10158 :1982 RA 2014	39 mg/kg
Nitrogen as N	IS 14684: 1999 RA 2014	135 mg/kg
Organic Carbon	IS2720(Part 22)-1972	0.74 %
Calcium	EPA 3050 B	94 mg/kg
Magnesium	EPA 3050 B	39 mg/kg
Chloride	UEPA9212	123 mg/kg
Sulphate	IS 2720 Part27:1977	164 mg/kg

For PoluChem Laboratories (P) Ltd.

Authorized Signatory.

End of the Report

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SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD



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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/AMB/RT/4071/2024
M/s. H and P Granites 6/530, Mankada Kummil P.O.	Date of issue:	16/05/2024
	Date of monitoring	10/05/2024
	Date of sample received:	11/05/2024
	Date of analysis	11/05/2024
	Monitoring Location	M/s.H and P Granites Re. Survey. No.s-465/04pt,465/05,481/01-1, 481/01-2,482/02,482/02-2,482/02- 3,482/04,482/05,482/06,483/04 Village-Kummil Panchayath: Kummil Taluk- Kottarakkara District- Kollam, Kerala
	Sample description	Ambient air – Near East side boundary
	Sample code given by client	Nil

SL. NO	PARAMETERS	TEST METHOD	RESULTS	Limit as per NAAQS
01	Particulate Matter (PM ₁₀)	IS 5182 Part 23 2006 RA 2012	74.2 µg/m ³	100 µg/m ³
02	Particulate Matter (PM _{2.5})	CPCB	36.5 µg/m ³	60 µg/m ³
03	Sulphur dioxide	IS 5182 Part 2 2001 RA 2017	5.4 µg/m ³	80 µg/m ³
04	Nitrogen dioxide	IS 5182 Part 06 2006 RA2017	6.9 µg/m ³	80 µg/m ³

Note: NAAQS-National Ambient Air Quality Standards

* End of the Report*

The results are related only to the sample collected for analysis. This certificate shall not be reproduced except in full and without the written permission with authorized signatory	For and on behalf of POLUCHEM LABORATORIES (P) LTD.  AUTHORIZED SIGNATORY
---	---

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD



POLUCHEM LABORATORIES PVT LTD

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TEST REPORT

Page 01 of 01

Ref.No. PL/RT/BW/4072/2024

Date of Issue: 16/05/2024

Name & address of customer

: M/s.H and P Granites

Re.Survey. No.s-465/04pt,465/05,481/01-1,

481/01-2,482/02,482/02-2,482/02-3,482/04,482/05,482/06,483/04

Village-Kummil

Panchayath: Kummil

Taluk- Kottarakkara

District- Kollam, Kerala

Sample drawn by

: PoluChem Laboratory Sample Collector

Sample description

: Drinking Water

Location of sampling

: Borewell Water –South East Side

Date of sample collected

: 10/05/2024

Date of analysis started

: 11/05/2024

Date of completion of analysis

: 15/05/2024

Parameters tested	Test method	Results	Acceptable Limit As Per IS 10500-2012
Color	IS 3025 (P) 04 – 1983 RA2017	6 Hazen Unit	5 Hazen Unit
Odour	IS 3025 (P) 05 – 1983 RA2017	Agreeable	Agreeable
Turbidity	IS 3025 (P) 10 – 1984 RA2017	0.8 NTU	1 NTU
pH	IS 3025 (P) 11 – 1983 RA 2017	6.87	6.5 – 8.5
Total Dissolved Solids	IS 3025 (P) 16 – 1984 RA2017	187 mg/l	500 mg/l
Total Hardness as CaCO ₃	IS 3025 (P) 21 – 1983 RA2014	121.4 mg/l	200 mg/l
Total Alkalinity as CaCO ₃	IS 3025 (P) 23 – 1986 RA2014	98.5 mg/l	200 mg/l
Residual Chlorine	IS 3025 (P) 26 – 1986 RA2014	BDL	0.2 mg/l
Chloride as Cl ⁻	IS 3025 (P) 32 – 1988 RA2014	22.3 mg/l	250 mg/l
Calcium as Ca	IS 3025 (P) 40 – 1991 RA2014	18.5 mg/l	75 mg/l
Magnesium as Mg	IS 3025 (P) 46 – 1994 RA2014	16.2 mg/l	30 mg/l
Total Iron as Fe	IS 3025 (P) 53 – 2003 RA2014	0.58 mg/l	0.3 mg/l
Sulphate as SO ₄	IS 3025 (P) 24 – 1986 RA2009	9.6 mg/l	200 mg/l
Fluoride as F	IS 3025 (P) 60 -2008 RA 2013	BDL	1.0 mg/l
Zinc as Zn	IS 3025 (P)49 – 1994 RA2014	BDL	5 mg/l
Manganese as Mn	IS 3025(P) 59– 2006 RA2017	BDL	0.1 mg/l
Cadmium as Cd	IS 3025(P) 41– 1992 RA2014	BDL	0.003 mg/l
Lead as Pb	IS 3025(P) 47– 1994 RA2014	BDL	0.01 mg/l
Coliforms(MPN/100ml)	IS 1622: 1981 RA 2009	Absent	Absent
Ecoli (Present or Absent/100ml)	IS 1622: 1981 RA 2009	Absent	Absent

Note : BDL – Below Detection Level

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

* End of the report*

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

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT LTD



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TEST REPORT

Page 01 of 01

Client Name & Address	Certificate No:	PL/RT/SD/4074/2024	
M/s.H and P Granites 6/530,Mankada Kummil P.O.	Date of issue:	16/05/2024	
	Date of monitoring	10/05/2024	
	Monitoring Location	M/s.H and P Granites Re.Survey. No.s-465/04pt,465/05,481/01-1, 481/01-2,482/02,482/02-2,482/02- 3,482/04,482/05,482/06,483/04 Village-Kummil Panchayath: Kummil Taluk- Kottarakkara District- Kollam, Kerala	
	Sample Description	Ambient Sound Level –East Side	
HOURLY INTERVAL	RESULT	HOURLY INTERVAL	RESULT
06.00 Hrs	49.8 dB (A)	23.00 Hrs	40.1 dB (A)
07.00 Hrs	50.2 dB (A)	00.00 Hrs	41.2 dB (A)
08.00 Hrs	53.6 dB (A)	01.00 Hrs	39.8 dB (A)
09.00 Hrs	51.3 dB (A)	02.00 Hrs	38.7 dB (A)
10.00 Hrs	49.8 dB (A)	03.00 Hrs	36.5 dB (A)
11.00 Hrs	51.4 dB (A)	04.00 Hrs	38.4 dB (A)
12.00 Hrs	49.6 dB (A)	05.00 Hrs	37.5 dB (A)
13.00 Hrs	47.5 dB (A)		
14.00 Hrs	50.2 dB (A)		
15.00 Hrs	48.6 dB (A)		
16.00 Hrs	47.6 dB (A)		
17.00 Hrs	46.3 dB (A)		
18.00 Hrs	45.4 dB (A)		
19.00 Hrs	46.3 dB (A)		
20.00 Hrs	45.4 dB (A)		
21.00 Hrs	46.3 dB (A)	LeqDay	49.7 dB (A)
22.00 Hrs	44.7 dB (A)	LeqNight	38.5 dB (A)

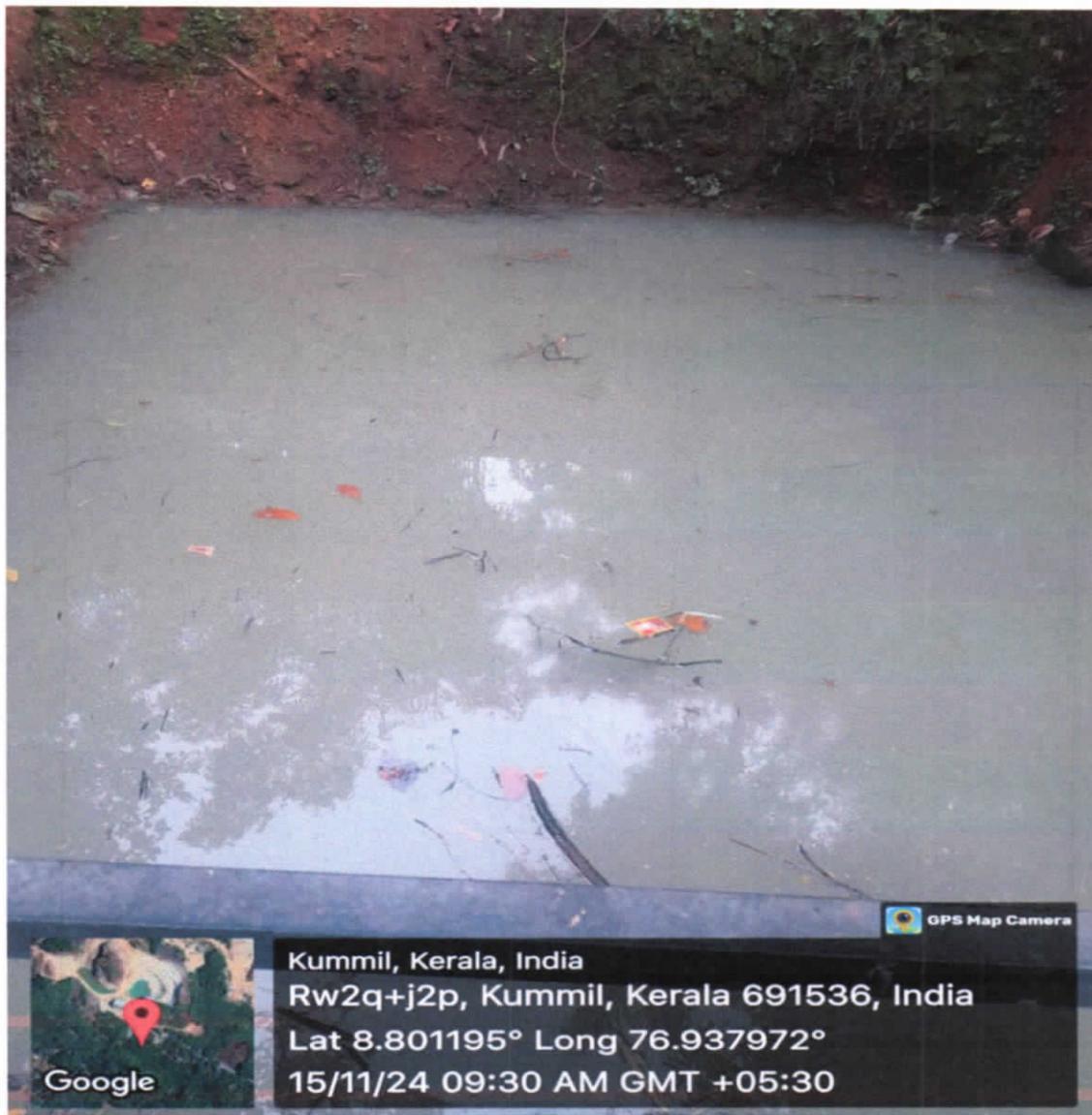
Limits: Industrial Area Day Time-75dB(A),Night Time- 70dB(A),Commercial area Day Time -65 dB(A),Night Time 55dB(A),
Residential area Day Time -55 dB(A),Night Time -45dB(A),Silence zone day time-50dB(A),Night time-40dB(A)
Day Time from 06.00 am to 10.00 pm & Night Time from 10.00 pm to 06.00 am

*End of the Report *

For PoluChem Laboratories (P) Ltd.

Authorized Signatory

SREEJA RAMESH
QUALITY MANAGER
POLUCHEM LABORATORIES PVT. LTD



De-Siltation Pond near Crushing Plant