

Through – Parivesh Portal

Ref: -P JL/MIN/BG/2025/1110

November 28, 2025 **दूर की सोच**

To,
 Regional Director
 Ministry of Environment & Forests and Climate Change
 Regional Office, Western Region
 Kendriya Paryavaran Bhavan
 Link Road No. 3, E - 5, Ravi Shankar Nagar
 Bhopal – 462016

Subject: Submission of Six Monthly Compliance report for Environment Clearance – Baghai Limestone Mine (512.317 ha), M/s Prism Johnson Ltd. In Village -Baghai, Tehsil Rampur Baghelan, Dist. Satna (M.P.)

Reference: Environmental Clearance Identification No. EC23A001 MP123527, dated 15th May 2023.

Dear Sir,

With reference to the above subject and the **Environmental Clearance** granted vide your Identification No. EC23A001 MP123527, dated 15th May 2023, we are pleased to submit the six monthly compliance report for the period April 2025 to September 2025 for the limestone deposit at Village -Baghai, Tehsil Rampur Baghelan, District Satna, Madhya Pradesh.

The compliance report has been prepared as per the stipulated conditions of the environmental clearance. All relevant supporting documents are enclosed herewith for your kind review and consideration.

We trust the report meets the necessary requirements and is in order.

Thank you.

Yours sincerely,
 For Prism Johnson Limited


Chandra Shekhar Pandit

Sr. General Manager - Mines & Project Proponent

Enclosures: As above

Cc: The Director, MOEF & CC, Delhi
 The Member Secretary- MPPCB, Bhopal
 The Regional Director -CPCB, Bhopal
 The Regional Director -CGWB, Bhopal
 The Regional Officer - MPPCB, Satna

Works: Village Mankahari, P.O.-Bathia, Dist. Satna - 485 111 (M.P.) India T: +91-07672-275301 / 302600

PRISM JOHNSON LIMITED

(Cement Division - Unit II)

Corres. Add.: 'Rajdeep', Rewa Road, Satna - 485 001 (M.P.) India. T: +91-07672-402726

Registered Office: Prism Johnson Limited, 305, Laxmi Niwas Apartments, Ameerpet, Hyderabad - 500 016, India. w: www.prismjohnson.in, www.cement.prismjohnson.in, E: info@prismjohnson.in

CIN: L26942TG1992PLC014033

**Half -Yearly EC Compliance Report
(April, 2025 to September, 2025)**

Of

Expansion in limestone Production capacity from 1.3 million TPA to 5.0 million TPA, Top soil: 2.322 million TPA & OB/SB/IB: 5.590 million TPA (Total Excavation:12.912 million TPA) and installation on new crusher of 1200 TPH Capacity (ML Area: 512.317 hac)

At

Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh

By



M/s Prism Johnson Ltd.

MOEFCC LETTER VIDE NO. J-11015/25/2019-1A. II (M)

Expansion in limestone Production capacity from 1.3 million TPA to 5.0 million TPA, Top soil: 2.322 million TPA & OB/SB/IB: 5.590 million TPA (Total Excavation:12.912 million TPA) and installation on new crusher of 1200 TPH Capacity (ML Area: 512.317 hac) in Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh

April, 2025 to September, 2025

Project Name: Expansion in limestone Production capacity from 1.3 million TPA to 5.0 million TPA, Top soil: 2.322 million TPA & OB/SB/IB: 5.590 million TPA (Total Excavation:12.912 million TPA) and installation on new crusher of 1200 TPH Capacity (ML Area: 512.317 hac)

EC identification no.: EC 23 A 001 MP 123527

MOEFCC letter vide no. J-11015/25/2019-IA. II (M) Dated 15.05.2023,

Period of compliance: April 2025 to September 2025.

A) Specific Conditions		
S.No.	Conditions	Compliance Status
1	This Environmental Clearance will be valid upto the validity of the mine lease period i.e., 27.02.2041 .	Agreed.
2	No Nallahs and other water bodies in and around the vicinity of the mine lease area shall not be disturbed at any stage. Regular monitoring on water quality of nallah shall be carried out.	No mining is proposed/conducted within 50 meters from the nallahs and other water bodies. The Surface water quality Monitoring report by NABL/MOEFCC accredited lab is attached as Annexure 1
3	The Project Proponent shall strictly adhere to the mines act and rules w.r.t. habitations, schools, water bodies, roads, railway lines etc., prevailing in the vicinity of the mine lease area and necessary permission shall be obtained from the concerned authorities.	Applicable Acts and Rules are being strictly followed throughout the mining lease area, with special emphasis on operations near habitations, schools, water bodies, roads, railway lines, etc. DGMS permission for working in proximity to habitations, schools, water bodies, roads, and railway lines has been obtained vide Permission No. 361177/WZ/Jabalpur Region/Relax/2023/252893 dated 30/01/2023. The copy of the permission is attached as Annexure 2 .
4	No mining activity shall be undertaken within 500m radius from the railway boundary. Necessary permission from DGMS and NOC shall be obtained from the Railways Dept. before the mining activity approaching to the railway area. The same shall be submitted to the Ministry's Integrated Regional Office.	No mining activity has been undertaken within the 500 m radius from the railway boundary. The necessary permission from DGMS and the No Objection Certificate (NOC) from the Railways Department have been obtained before the mining activity approached the railway area, and the same has been submitted to the Ministry's Integrated Regional Office. The NOC from railway and DGMS permission are attached as Annexure for 3(a) and 3 (b) respectively.
5	The Project Proponent shall construct the boundary wall of adequate height with green fencing and shall undertake dense plantation all along the boundary near the school (restricted part of the mine lease area).	The boundary wall of Baghai School has already been constructed along with suitable plantation has been done. Photograph of the School's Boundary wall is attached as Annexure 4 .

6	The Project Proponent shall maintain the distance of 500m radius between the school (restricted part of the mine lease area) and mine lease area throughout the life of the mine. No blasting activity shall be undertaken in this zone.	No work is running within a 500 m radius between the school & Mine boundary. No blasting activity will be undertaken in this zone.
7	The Project Proponent shall carryout the blasting in such a way that the direction of the blasting should be perpendicular to the school.	Agreed. Controlled blasting using non-electric detonators and site-mixed explosives is being carried out as per the recommendations of the Central Institute of Mining and Fuel Research (CIMFR). All norms stipulated by DGMS are being strictly followed during blasting operations. Controlled blasting is undertaken with proper safety measures and in accordance with the recommendations provided by CIMFR, Dhanbad after the study. The blasting direction is maintained perpendicular to the school to ensure safety.
8	The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of “peak particle velocity” and “Air Over Pressure” shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six-monthly compliance report. The implementation status of the scientific study carried out CSIR-CIMFR shall be submitted to the Ministry’s Integrated Regional Office.	Ground vibrations are being monitored regularly. The “Air Over Pressure” (AOP) has been recorded within prescribed limits. All the recorded data (blast vibrations, air overpressures and fly rocks) were well within the safe limit at the houses/structures concerned. No violations regarding the blasting are received from the DGMS regarding blasting operation. The Ground Vibration report as per the scientific study is attached as Annexure 5 .
9	Prior permission from the Irrigation Dept. shall be obtained for ensuring the stability of the canal from the blasting activity.	NOC is obtained from irrigation department copy is attached as Annexure 6 .
10	The Project Proponent should follow the back filling plan strictly as per the approved mining plan. Top soil dumping, preservation and utilization should be carried out as per the approved mining plan	Agreed. Backfilling, topsoil dumping, and its preservation and utilization will be as per the approved mining plan.
11	Protective bund along the mine boundary towards the Canal shall be stabilized by fruit bearing plantation within two years from the issue of this EC. In between bund and plantation retaining wall should be constructed to arrest fine particles.	Agreed. Present working is more than 2 km from the canal. A protective bund will be stabilized by the fruit-bearing plantation and a retaining wall will be constructed between the bund and the plantation to arrest fine particles.
12	The Project Proponent needs to obtain prior permission from the Forest Dept. for cutting down the trees. PP shall approach the Forest Department to visit the s	Agreed. Permission will be taken from the appropriate authority as and when required. Wherever possible the trees will be transplanted

	ite for demarcation of trees with their type. PP shall explore the possibility of tree transplantation before cutting of trees. Trees cannot be transplanted needs to replant the same in consultation with the Forest Dept. Trees cannot be transplanted shall vetted by the Forest Dept. before cutting of trees.	
13	The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.	Agreed. Air quality, noise level, ground water quality, and ground water level are being monitored regularly. The monitored data is compiled and submitted quarterly to the Ministry's Integrated Regional Office as required. The relevant monitoring reports are enclosed as Annexure 7A (Air Quality Monitoring Report), Annexure 7B (Noise Level Monitoring Report), Annexure 7C (Ground Water Quality Report), and Annexure 7D (Ground Water Level Monitoring Report).
14	The Project Proponent shall undertake the fruit bearing plantation all along the safety zone of the habitations, schools, railway lines, water bodies and roads within three years from the start of mining operations.	Agreed. Fruit-bearing plantation activity is being carried out in a phased manner with tree guards. Saplings of fruit-bearing species are also being distributed to the nearby villages. Photographs of the plantation along the habitation are enclosed as Annexure 8 .
15	The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.	Agreed. A fog cannon has been installed at the site, and permanent water sprinklers along the haul road and the approach road have been fully installed. Photographs of the same are enclosed as Annexure 9 .
16.	The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.	Agreed. The crusher is not installed yet. All APCEs will be installed with the necessary arrangements to control pollution in the proposed crusher. A dense plantation is also maintained within the vicinity of the crusher. Necessary measures will be adopted to avoid generation of fugitive dust emissions.
17	The Project Proponent needs to complete the entire 7.5 m peripheral plantation, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with	Agreed. Plantation in the 7.5 m safety zone is under progress. Photographs of the peripheral plantation are enclosed as Annexure 10 .

	seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall implement the practice of drip irrigation for plantation.																			
18	The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.	<p>Agreed. To achieve a 95% survival rate, gap (make-up) plantation will be adopted.</p>																		
19	The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 83.32 Lakhs. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.	<p>All mitigation measures proposed under the EMP are being implemented. The adoption and monitoring of these mitigation measures are being carried out under the supervision of qualified environmental personnel. The implementation status of the EMP is being submitted to the Ministry's Integrated Regional Office as required.</p> <p style="text-align: center;">Environment Management Plan</p> <table border="1"> <tr> <td>1</td><td>Air,water,noise Quality monitoring and Protection</td><td>7.5</td></tr> <tr> <td>2</td><td>Dust Prevention & Control</td><td>2</td></tr> <tr> <td colspan="2" style="text-align: right;">Sub Total</td><td>9.5</td></tr> <tr> <td>4</td><td>Plantation and Greenbelt Development</td><td>10.1</td></tr> <tr> <td>6</td><td>Professional Fees/NOCs</td><td>17.02</td></tr> <tr> <td colspan="2" style="text-align: right;">Total</td><td>36.62</td></tr> </table>	1	Air,water,noise Quality monitoring and Protection	7.5	2	Dust Prevention & Control	2	Sub Total		9.5	4	Plantation and Greenbelt Development	10.1	6	Professional Fees/NOCs	17.02	Total		36.62
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Total		36.62																		
20	The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis instead of engaging environment monitoring laboratories/consultants within two years of grant of EC. Any non-compliance or infringement should be reported to the concerned authority.	Establishment of the in-house environmental laboratory and formation of the dedicated monitoring team are under progress. Any non-compliance will be reported to the concerned authority.																		
21	The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.	<p>Agreed. The audit is being conducted and has been submitted to IRO, MoEF&CC every year.</p>																		

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April, 2025 to September, 2025

22	<p>The budget of Rs 2.02 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity out comes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.</p>	<p>Agreed. The allocated budget of Rs. 2.02 crore for public hearing commitments is being implemented within the stipulated three-year period. All action plans are being complied with, and progressive outcomes are being recorded. The action plan for concerns raised during the public hearing is attached as Annexure 11.</p>
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23	The Project Proponent needs to provide the RO drinking water supply and also by laying network of pipelines to the villages Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi at free of cost.	Water Cooler and RO have been provided to the Villages Baghai, Bairiha, Sijhata Tapa Satri and Medhi. Installation of this drinking water supply is under process.
24	The Project Proponent needs to construct the boundary wall (250 Feet Length and 5 feet Height) in Primary School located at Medhi Village with allocated budget of Rs 5.0 Lakhs.	The boundary of the primary school has been constructed, Prism Johnson Limited. Boundary of Medhi Primary School enclosed as annexure 12
25	The Project Proponent needs to facilitate the online education system in the schools by providing Wi-Fi connectivity, smart classrooms and desktops/ tablets. PP shall construct a library which shall be made available to the school children as well as the local people.	Agreed. Compliance is in progress. So far, 20 smart classrooms have been developed in the nearby villages. Photographs are enclosed as Annexure 13
26	The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report.	Awareness programmes on the ban of Single Use Plastic (SUP) are being conducted for local people working within the project area and surrounding villages. The measures taken, along with photographs, are enclosed as Annexure 14
27	The Project Proponent shall explore the possibility of using at least 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.	The Electric Vehicles (EVs) trial is in process.
28	The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs in line with the policy and guidelines of the Central/State Government, as provided under the law in such a way that the compensation should benefit the current and future generation.	Agreed.
29	The Project Proponent shall also organize employment-based apprenticeship/internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and improved accordingly. The preference shall be given to the local people for the purpose of employment.	Agreed. Skill training programs have been provided and will continue to be conducted in the future as well. Photographs of the same are enclosed as Annexure 15 .

30	The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.	Digital health records of mine workers are being maintained. Annual occupational health check-ups, including silicosis surveillance, are being carried out. Health check-ups surveillance report is enclosed as Annexure 16
31	The mining lease holders shall, after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.	Agreed. This would be implemented at the time of the mine closure.

B) Standard Conditions		
i. Statutory Conditions		
S.No.	Specific Conditions	Compliance Status
1	This Environmental Clearance (EC) is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.	Agreed
2	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August,2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Agreed
3	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgement of Hon'ble Supreme Court dated 2nd August ,2017 in Writ Petition (Civil) No.114 of 2014 in matter of Common Cause versus Union of India & Ors.	Agreed

April, 2025 to September, 2025

4	The Project Proponent shall follow the mitigation measures provided in MoEFCC, Office Memorandum No. Z-11013/57/2014-IA. II(M), dated 29th October, 2014, titled, "Impact of mining activities on Habitatis-Issues related to the mining Projects where Habitatis and villages are the part of mine lease areas or Habitatis and villages are surrounded by the mine lease area".	Agreed
5	A copy of EC letter will be marked to concerned Panchayat/local NGO etc. If any, from whom suggestion/representation has been received while processing the proposal.	Copy of the EC letter was sent to the concerned Panchayat on 19.05.2023, and the same is attached as Annexure 17 . No local NGO participated during the processing of the proposal."
6	State Pollution Control Board/Committee shall be responsible for display of this EC letter at its regional office, District Industries Centre and Collector's office/Tehsildar's Office for 30 days.	Not applicable to PP
7	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and website of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). The advertisement maybe forwarded to the concerned MoEFCC Regional Office for compliance and record.	The grant of EC is advertised in three local newspapers on 18.05.2023. Copy of the same are Attached as Annexure 18 .
8	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para11 of EIA Notification, 2006 as amended from time to time.	Noted There has been no change in ownership of the mining lease. In case of any change in ownership or transfer of the mining lease in future, an application for transfer of the Environmental Clearance (EC) will be submitted to the MoEF&CC.

II. Air Quality Monitoring and Preservation	
9	<p>The Project Proponent shall install a minimum of 3 (three) online Ambient Air Quality Monitoring Stations with 1(one) in upwind and 2(two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations ,of air pollution viz. PM10, PM2.5, NO₂, CO and SO₂ etc. as per the methodology mentioned in NAAQS Notification No.8- 29016/20/90/PCI/Idated18.11.2009 covering the aspects of Mining plan and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main gate of mine site.</p>
10	<p>Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution where in high levels of PM-10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment's/ machineries and preventive maintenance. Use of suitable water -soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. Its shall be ensured that air pollution level conform to the Generals prescribed by the MoEFCC/Central Pollution Control Board.</p>

III. Water quality monitoring and preservation	
11	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of groundwater table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.
12	Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo -meter installations during the mining operation in consultation with Central Ground Water Authority/State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Ground water Department/State Pollution Control Board.
13	The Project Proponent shall undertake regular monitoring of natural water course/ water resources/springs and perennial nallahs existing/flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-a-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/bodies existing in lease area shall be carried out four times in a year viz. pre-monsoon (April May), monsoon (August), post monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution

	Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	
14	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO) pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board at a suitable location near the main gate of the Company. The circular No.J20012/1/2006/IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change, may also be referred in this regard.	Agreed. Concerned parameters are being monitored regularly, and the monitoring records are uploaded on the company website.
15	Project Proponent shall plan, develop and implement rain water harvesting measures on long-term basis to augment ground water resources in the area in consultation with Central Ground Water Board/State Ground water Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.	Rain water harvesting structures is being built to augment groundwater resources in the area, and the report of the same has been submitted to the Regional Office MoEFCC annually. Rain water harvesting photographs is enclosed as Annexure 24 .
16	Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified Generals prescribed from time to time. The Generals shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.	Agreed. The effluent generated in the workshop is being collected and treated so as to confirm with the standards.
17	The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of MoEF&CC and State Pollution Control Board/Committee.	Water balance and water auditing are being carried out, and measures for reducing water consumption are being implemented. The implementation status and relevant details are being submitted to the Regional Office of MoEF&CC and the State Pollution Control Board as required. Water balance table is enclosed as Annexure 25

18	The peak particle velocity at 500m distance or within the nearest habitation whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	Agreed. Ground vibration is being measured on regular basis as per DGMS guidelines. Vibration report is enclosed as Annexure 26
19	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day/night hours.	The Illumination is done in such a way that it does not disturb the villagers by orienting it away from the villages. Noise level monitoring report (Annexure 27) is being done regularly and all the ambient noise levels (both, at day and night) is well within the prescribed limits of CPCB guidelines.
20	The Project Proponent shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personnel/ laborers are working without personal protective equipment.	Agreed. Measures such as the use of HEMM fitted with silencers, controlled blasting, and proper maintenance of HEMM have been implemented. All personnel working in dusty areas and with heavy machinery at the mine site are being provided with protective equipment, along with adequate training and health awareness. Photographs of training are enclosed as Annexure 28 .
21	The Project Proponent shall adhere to approved mining plan, including, total excavation (quantum of mineral, waste, overburden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, OB& dump mining, mineral Mining plan mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land use of the mine lease area at various stages of mining scheme as well as at the end of life etc.).	Agreed. Development and production of the mine is being done as per approved mining plan.
22	The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-a-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half	Agreed. Land use is being done as per approved mining plan and the compliance status will be submitted on half early basis to concerned office.

	yearly to the MoEFCC and its concerned Regional Office.	
23	The Overburden (O.B.), waste and top soil generated during the mining operations shall be stacked at earmarked OB dump site(s) only, and it should not be kept active for along with the period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The top soil shall be used for land reclamation and plantation.	Agreed. Development of the mine is being done as per the approved mining plan. The top soil is stacked separately and will be used for land reclamation and plantation only.
24	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the micro climate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/compactors thereby ensuring proper filling/leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes /clay liners/Bentonite etc. Shall be undertaken for stabilization of the dump.	Scientific stabilization of dump slopes is under progress. Native species are being planted to maintain slope stability and reduce erosion. In critical areas, stabilization measures such as geo-textiles and clay liners are being adopted.
25	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent runoff of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be silted regularly, particularly after monsoon season, and maintained properly.	Agreed. Catch drains and siltation ponds of appropriate size is constructed and collected water is being utilized for watering the mine area, roads, Greenbelt development, plantation etc. Photographs of catch drain, setting tanks and siltation pond are enclosed as Annexure 29 .
26	Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/silt material. The sedimentation pits/sumps shall be constructed at the corners of the garland drains.	Agreed. Check dams, retaining walls, and garland drains have been constructed in appropriate sizes around the mine pits and OB dumps as required.

27	<p>No transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt.</p> <p>Mining plan of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt.</p> <p>Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to Mining plan load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored.</p> <p>Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].</p>	<p>Complied.</p> <p>Transportation of the minerals is conducted through a 'bypass' road developed by the company at a safe distance from the villages/ habitations. Dust suppression by the water tankers is done on regular basis. All the vehicles have obtained Pollution Under Control (PUC) certificate from authorized pollution testing centers.</p>
28	<p>The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipment like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while Mining plan. PP shall take necessary measures to avoid generation of fugitive dust emissions.</p>	<p>Agreed.</p> <p>A permanent water sprinkler system is installed for dust suppression in the main haul road and dust suppression by the water tankers is done on regular basis. The crusher is not installed yet. All APCEs will be installed with the necessary arrangements to control pollution in the proposed crusher. A dense plantation is also maintained within the vicinity of the crusher. Necessary measures will be adopted to avoid generation of fugitive dust emissions.</p>
29	<p>The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Greenbelt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC</p>	<p>Agreed.</p> <p>Work is under progress, will be developed within 5 years of grant of EC.</p>

	granted by the Ministry irrespective of the stipulation made in approved mine plan.	
30	The Project Proponent shall carry out plantation/afforestation in backfilled and reclaimed area of mining lease, around water body, along the road sides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/Rural development department/Tribal Welfare Department/Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.	Agreed. Agreed As per CPCB guidelines plantation or afforestation activities are done in backfilled areas
31	The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.	Agreed.

S.No.	Public hearing and human health issues	
32	Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of under groundwater.	Provision for worker accommodation is under implementation. Temporary labour camps with essential facilities such as safe drinking water, mobile toilets, mobile STP, cooking arrangements, medical facilities, and a crèche for children have been established on company-owned land. Domestic wastewater generated from the camps is being treated through the mobile STP to prevent groundwater contamination.
	Corporate Environment Responsibility (CER)	

33	The Project Proponent shall submit the time bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22- 65/2017- IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.	Agreed. Action Plan is attached as Annexure 30 the action plan will be implemented within 3 years.
S.No.	Miscellaneous	Action Plan
34	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	The digital land use and land cover map of the entire lease area is being prepared as per the requirement, and the same will be updated once every five years for monitoring land use patterns. The digital map is enclosed as enclosed as Annexure 31 .
35	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Agreed.
36	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC and its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Six-monthly compliance reports on the implementation status of all stipulated environmental safeguards are being submitted regularly to the MoEF&CC, its Regional Office, the CPCB, and SPCB. The receipt of previous submitted report is enclosed as Annexure 32
37	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEFCC.	Agreed. Environmental Management Cell' with suitable qualified manpower has been set-up under the control of a Senior Executive. The same is enclosed as Annexure 33
38	The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data/information/monitoring reports.	Agreed.

Expansion in limestone Production capacity from 1.3 million TPA to 5.0 million TPA, Top soil: 2.322 million TPA & OB/SB/IB: 5.590 million TPA (Total Excavation:12.912 million TPA) and installation on new crusher of 1200 TPH Capacity (ML Area: 512.317 hac)in Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh

April, 2025 to September 2025

39	In pursuant to Ministry's 0.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after cease mining operations, undertake regressing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Agreed.
40	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.	Agreed
41	Concealing factual data failure to comply with any or submission of false/fabricated data and of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986	Agreed.



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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/SW/05	Report No.:	JME/W/250616005
Name & Address of Unit:	M/s. Prism Johnson Limited Baghah Limestone Mines, Area 512.317 ha, Village- Baghah, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Baghah Mines Pit (Discharge Water)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 38" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 32" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.86
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	325.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	84.52
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	160.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	31.55
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	27.75
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	468.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO4-C/D/E	mg/l	145.0
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.96
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	0.42
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	BDL (DL 0.02)
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

Page 1 of 2

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Abhishek Tiwari

Reviewed & Authorized by
Kaikumar Yadav

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Corporate Office

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TEST REPORT

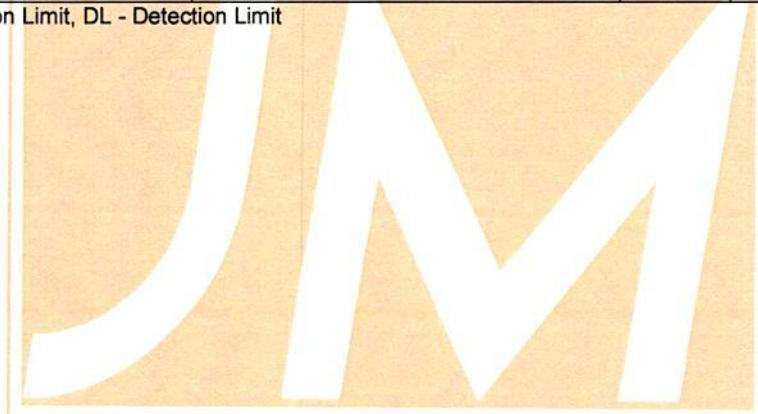
Sample Number: JME/PJCL/SW/05

Report No.: JME/SW/250616005

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	3.6
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	3.4
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	12.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	26.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	4.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	721.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	8.1

Note: BDL – Below Detection Limit, DL - Detection Limit

Page 2 of 2



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Rajkumar Yadav

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TEST REPORT

Sample Number:	JME/PJCL/SW/06	Report No.:	JME/W/250616006
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Tamas River	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 35' 31" N	Sampling Date:	14/06/2025
Longitude:	81° 0' 20" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition:	Temp. 40°C; Cloudy Sky
		During Sampling:	
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.63
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	253.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	55.89
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	175.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	30.55
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	27.62
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	295.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	mg/l	16.88
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.36
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	1.52
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	0.09
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

Page 1 of 2

Abhishek
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Abhishek Tiwari

A circular blue ink stamp. The outer ring contains the text 'ENVIROLAB PVT. LTD.' in a stylized font. Inside the circle, the words 'Authorised Signatory' are written above a signature. Below the signature, the name 'RAJKUMAR YADAV' is printed in a bold, sans-serif font. The stamp is oriented vertically on the page.

Note:

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TEST REPORT

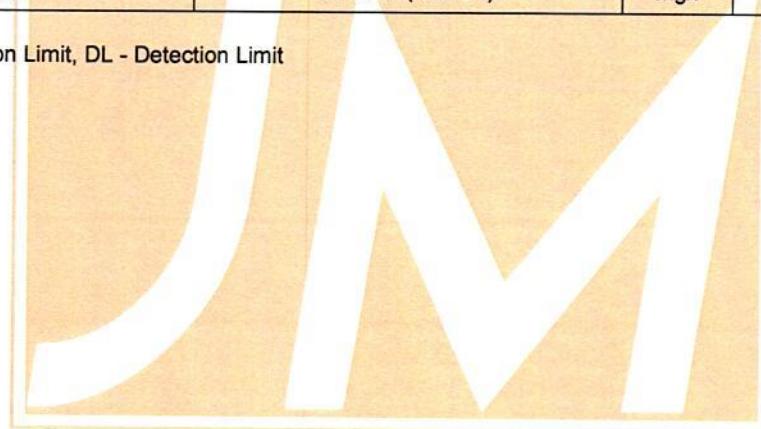
Sample Number: JME/PJCL/SW/06

Report No.: JME/SW/250616006

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	5.9
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	5.5
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	19.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	16.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	2.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	455.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	7.5

Note: BDL – Below Detection Limit, DL - Detection Limit

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TEST REPORT

Sample Number:	JME/PJCL/SW/07	Report No.:	JME/W/250616007
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distr- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Nar Nala Bridge (Beside Baghai Mine)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 34' 26" N	Sampling Date:	14/06/2025
Longitude:	81° 1' 47" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.92
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	236.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	36.55
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	103.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	14.88
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	35.22
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	518.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	mg/l	165.0
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.76
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	1.52
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	0.10
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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Page 1 of 2



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Raikumar Yadav

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TEST REPORT

Sample Number: JME/PJCL/SW/07

Report No.: JME/SW/250616007

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	6.2
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	6.0
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	21.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	35.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	6.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	798.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	8.4

Note: BDL – Below Detection Limit, DL - Detection Limit

Page 2 of 2

Checked by
Abhishek Tiwari



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Rajkumar Yadav

Note:

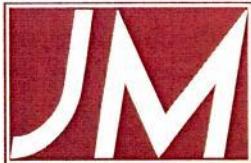
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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/SW/05	Report No.:	JME/SW/250923009
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Baghahai Mines Pit (Discharge Water)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 38" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 32" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.72
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	311.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	76.26
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	152.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	35.26
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	29.36
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	483.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	153.0
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.83
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	0.56
16.	Iron	IS:3025 (Part-53)	mg/l	BDL (DL 0.02)
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)



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Pallavi Verma



TEST REPORT

Sample Number: **JME/PJCL/SW/05**

Report No.: **JME/SW/250923009**

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate	APHA 24th Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	BDL (DL 1.0)
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	3.7
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	13.0
33.	Sodium	IS:3025 (Part-45)	mg/l	29.0
34.	Potassium	IS:3025 (Part-45)	mg/l	3.0
35.	Conductivity	APHA 24th Edition, 2510 B	µs/cm	473.0
36.	Nickel	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-38)	mg/l	5.3

Note: BDL – Below Detection Limit, DL - Detection Limit

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TEST REPORT

Sample Number:	JME/PJCL/SW/06	Report No.:	JME/SW/250923010
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Tamas River	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 35' 31" N	Sampling Date:	22/09/2025
Longitude:	81° 0' 20" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.23
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	241.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	49.31
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	169.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	25.34
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	28.69
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	309.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	12.54
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.43
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	1.33
16.	Iron	IS:3025 (Part-53)	mg/l	0.06
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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TEST REPORT

Sample Number: JME/PJCL/SW/06

Report No.: JME/SW/250923010

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate	APHA 24th Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	6.1
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	4.3
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	15.0
33.	Sodium	IS:3025 (Part-45)	mg/l	20.0
34.	Potassium	IS:3025 (Part-45)	mg/l	4.0
35.	Conductivity	APHA 24th Edition, 2510 B	µs/cm	475.0
36.	Nickel	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-38)	mg/l	5.1

Note: BDL – Below Detection Limit, DL - Detection Limit

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TEST REPORT

Sample Number:	JME/PJCL/SW/07	Report No.:	JME/SW/250923011
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Nar Nala Bridge (Beside Baghai Mine)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 34' 26" N	Sampling Date:	22/09/2025
Longitude:	81° 1' 47" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.85
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	227.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	30.16
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	110.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	16.34
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	36.91
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	539.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	177.0
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.72
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	1.22
16.	Iron	IS:3025 (Part-53)	mg/l	0.07
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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Authorised :
Signature :

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CIN No. :U74220HR2011PTC085756



TEST REPORT

Sample Number: JME/PJCL/SW/07

Report No.: JME/SW/250923011

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	7.6
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	5.2
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	18.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	30.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	7.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	829.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	5.1

Note: BDL – Below Detection Limit, DL - Detection Limit

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भारत सरकार
Govt. of India
अम एवं रोजगार मंत्रालय
Ministry of Labour & Employment
राजन सुरक्षा महानिवेशालय
Directorate-General of Mines Safety



NO: 361177|WZ|Jabalpur Region|relax|2023|252893

Date: 30/01/2023

From
Director of Mines Safety,

Jabalpur Region.
To
KOUSIK DAS, Manager
Bahgai Limestone Mine,
Prism Johnson Limited
vill-Mankahri, Dist-Satna, M.P. .

Subject: Relaxation under Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole drilling and blasting at Baghai Limestone Mine of M/s Prism Johnson Limited located at village-Baghai, Tehsil-Rampur Bahgelan, Dist- Satna (M.P)

महोदय,

Please refer to your online application submitted vide ID: 252893, dated 19.12.2022, offline letter no. PJL/MINE/BG/2022/948 dated 19.12.2022 enclosing therewith Surface Plan No. PJL/BG/2022/105 dated 19.12.2022 of the mine in offline mode on the above subject.

The matter has been considered in the light of information furnished by you in your application and accompanying plans/sections and other enclosures.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby grant you relaxations from the Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole drilling and blasting at Baghai Limestone Mine of M/s Prism Johnson Limited located at village-Baghai, Tehsil-Rampur Bahgelan, Dist- Satna (M.P) in the area bounded and marked by points **A-B-C-D-E-F-G-H-I-J-A3-A4-A5-A6-A7-A8-A9-B12-B13-B14-B15-B16-B17-A10-A11-N-O-P-A** (excluding the area bounded by **1-2-3-4-4-6-1, 7-8-9-10-11-12-7 and 13-14-15-16-17-18-19-13**) & **A28-B2-B3-B4-B5-B6-B7-B8-B9-A31-A32-A33-A34-A35-A36-A37-A38-A39-A40-A41-A28** as shown on Surface Plan No. PJL/BG/2022/105 dated 19.12.2022 subject to the following conditions being strictly complied with.

1.0 General:

1.1 The conditions as mentioned in the Annexure 'A' of this permission letter shall be strictly complied with.

1.2 Except where otherwise provided for in this permission, all provisions of the Metalliferous Regulations, 1961 relating to opencast workings, use of explosives and use of machinery etc. shall be strictly complied with.

1.3 The opencast workings shall not be extended in areas within the lease unless the land has been acquired by the mine owner and is under the owner's physical possession.

1.4 No working shall be made or extended within 45 m of any building/structure/railway of permanent nature, not belonging to owner of the mine without permission in writing from this Directorate under Regulation 109 of the Metalliferous Mines Regulations, 1961.

1.5 No working shall be made in any spot lying within horizontal distance of 15 m from either bank of the Canal or any stream, Nallah, etc. without obtaining permission in writing from this Directorate under Regulation 127 of the Metalliferous Mines Regulations, 1961. Adequate protection against inrush of Nallah water in the mine shall be provided and maintained.

1.6 During heavy rain, the Manager or senior most mine official present in the mine, shall go round the surface area of the mine to check vulnerable points and effectiveness of the safety measures. Standing orders for withdrawal of persons from the mine in case of apprehended danger should be framed and enforced.

1.7 (a) No deep hole blasting shall be carried out within 300m of any structure not belonging to the owner unless permitted by this Directorate in writing under Regulation 164(1-B) of the Metalliferous Mines Regulations.

(b) No blasting shall be conducted using SME/SMS/ANFO explosive without having valid permission obtained under Regulation 155(1) & 162(5) of Metalliferous Mines Regulations, 1961

(c) Regular deep hole blasting shall be carried out using Shock tube/Non-electric initiation system.

(d) The working faces in the mine shall be so oriented that the free face for blasting is away from the adjoining mine/Crusher/school/temple etc. if any.

1.8 No blasting in the mine shall be carried out within 300m of the public roads till such time the blasting in charge has ensured that no persons/vehicles pass on such roads during the time of blasting. For the purpose, drop bar barrier shall be provided on both side of such road at a distance of 300m from the place of firing of shots in the proposed limit of quarry and during blasting, guard shall be posted on the barrier and persons/vehicles shall not be allowed to pass on said road during blasting and till the time all clear signal after blasting is obtained.

1.9 Blasting shall be conducted only after ensuring that persons including blaster within 500 m radial distance from place of firing of shot holes have taken proper shelter. The persons/employees of the adjoining mine nearby and within 500m radial distance shall also be informed and ensured that they have taken proper shelter.

1.10 An embankment designed and constructed on sound civil engineering principles to serve as dam of at least 3m higher than the HFL shall be provided and maintained against the Nar nallah, to prevent inrush of water in the mine.

1.11 Special care shall be taken when any slip or other planes of weakness or other geological disturbances exist, so as to prevent danger to the work-persons.

1.12 The owner shall indemnify occupants/owners of the houses/ dwellings/ buildings/school/temples etc. or other structures of public authority concerned, if any, against the dangers to those properties or injury to them or other persons arising out of operations conducted under this permission.

1.13 No deep hole blasting shall be conducted within 100m of any dwellings, roads, railways and other important structures not belonging to the owner of the mine. The deep hole blasting in the mine shall be carried out strictly as per the stipulations laid down in Regulation 164 of the MMR, 1961.

1.14 No blasting for any purpose shall be done within 300m from the boundary of sub-station or from the electric supply lines of voltage exceeding 650V or tower structure thereof without the written permission of the owner of such sub-station or electric supply lines or tower structures as required under the provisions of CEAR,2010.

1.15 No blasting shall be conducted during school time

2.0 Supervision:

1.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.

1.2 Adequate number of supervisors including duly qualified Assistant Managers, Foremen and Mining Mates shall be appointed in each working shifts to assist the Manager. The Manager, Assistant Manager, Foreman and Mate shall be responsible to ensure compliance of stipulations of conditions governing grant of this permission and other provisions of the Regulations, Rules, bye-laws, orders, and circulars issued from time to time, as may be applicable. They shall also supervise transport and loading operations being done by contractor(s), if any

1.3 A duly qualified engineer shall be appointed to hold charge of all machinery at the mine and shall be responsible for the proper installation, maintenance and safe working of such machinery.

1.4 During production shift the opencast workings shall be placed under the charge of an Assistant Manager, holding at least Manager's Certificate who shall be responsible to see that all the regulations and the orders made there under are strictly complied with.

1.5 A code specifying duties and responsibilities of all mine-officials, i.e. Engineer, Supervisors, Technicians, Mechanics, Fitters, Machine Operators, helpers, loading supervisors etc. shall be drawn up by the Manager and distributed to all concerned.

1.6 The Manager shall issue to every Driver/Operator, Supervisor and Mine Official connected with the use of Heavy Earth Moving Machinery, a copy of rules/regulations/SOP, orders made there-under and guidelines listed in this permission governing his duties, in a language understood by the person concerned. The Manager and the Engineer shall be responsible to ensure that all the precautions and guidelines listed in this permission are strictly followed by all concerned.

1.7 It shall be the responsibility of the Manager, Engineer and other supervisors to ensure that all persons working in the mine, and those working on machines/equipment etc. work as per the code and all machines and equipment etc. are installed, operated and maintained in safe working conditions.

1.8 Operations connected with Drilling, Charging, Stemming and Blasting of deep holes shall be placed under overall charge of a person holding atleast Manager's Certificate of Competency granted under Metalliferous Mines Regulations, 1961, who shall supervise the said operations in accordance with the guidelines and directives issued by the Manager.

1.9 Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast. A separate foreman as blasting in charge shall be appointed.

1.10 Manager shall frame code of practices for each operation and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the code of practices so framed.

1.11 Manager shall in particular:- Prepare "Safety Management plan" as per guidelines of DGMS Circular No. DGMS (Tech) (S&T) Circular No: 13 of 2002, DGMS (Tech) (S&T) Circular No: 02 of 2011 & DGMS (Tech) (S&T) Circular No. 05 of 2016.

3.0 Please note that, this permission is subject to the following additional conditions.

3.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workmen employed in the mining operation for which this permission has been granted shall be

stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.

3.2 This permission may be amended or withdrawn at any time should it be considered necessary in the interest of safety.

3.3 If at any time any of the conditions subject to which this permission has been granted is violated or not complied with, this permission shall be deemed to have been revoked with immediate effect.

3.4 This permission is being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

3.5 This permission/relaxation shall be valid for a period of 03 (three) years from the date of issue of this letter.

ANNEXURE-A

2.0 Opencast Workings:

2.1 Height and Width of Benches

(a) The height of benches in Alluvium shall not be more than 3.0m and that in overburden, ore body or other rock formation shall not be more than the digging height of the machine used for digging, excavation or removal and in any case, it shall not be more than 8.0m

(b) Width of any bench shall not be less than

- i. width of the widest machine plying on the bench plus 2m, or
- ii. if dumpers ply on the bench, 3 times the width of the dumper, or
- iii. the height of the bench, whichever is more.

3.0 GENERAL

3.1 Quarrying operations shall be conducted from top downwards.

3.2 The provisions of Sub regulation (4) & (5) of Regulation 106 shall be complied with.

3.3 When persons are employed within 5m of the working faces, adequate precautions shall be taken to ensure their safety by dressing the side of benches.

3.4 No person shall be engaged or work or allowed to travel close to high sides/benches, from which he is likely to fall for more than 1.8m vertically down, unless he is provided with and uses a safety belt or rope.

3.5 The sides in overburden and mineral benches shall be kept sloped to prevent danger from fall of sides.

4.0 Roads for Trucks and Dumpers etc.:

4.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.

4.2 (a) where practicable, all roads from the opencast workings shall be arranged to provide one way traffic. Where this is not practicable, no road shall be of a width less than three times plus 5m width of the largest vehicle plying on the road unless definite turn outs and waiting points are designated.

(b) All corners and bends in roads shall be made in such a way that the operator of vehicle have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.

(c) Where it is not possible to ensure a visibility for a distance as mention in 4.4 (a), there shall be provided with two roads of width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at centre with adequate lighting and reflector along the divider.

(d) No road shall have a gradient more than 1 in 16 at any place, except for ramps over small stretches not exceeding 10m in length, where gradient up to 1 in 10 may be permitted.

(e) Where any road exists above level of surrounding area, it shall be provided with strong parapet wall or embankment of following dimensions.

(i) Width at top-not less than 1m.

(ii) Width at bottom-not less than 2.5m.

(iii) The height not less than the diameter of tyre of largest vehicle plying on road.

It may be noted that just dumping of mud of OB shall not be treated as strong parapet wall.

(f) Separate haul road shall be provided for light vehicles plying in mine premises. Where it is not practicable, definite turn outs, crossing points and waiting points shall be designated for use of vehicles.

5.0 Spoil banks/overburden dumps:

5.1 The slope of a spoil bank face shall be determined by natural angle of repose of the material being deposited, but shall in no case exceed 37.5 degrees from the horizontal. The spoil bank face shall not be retained by artificial means at the angle in excess of its natural angle of repose. Garland drains shall be provided around the periphery of the dumps, both at top and bottom, to collect run-off water.

5.1 Spoil-banks shall be adequately benched to maintain its stability and the general slope shall not exceed vertical to 1.5 horizontal. The overall height of dump shall not exceed more than 30m from its base. The benches shall be formed in OB dump in such a way that height of bench shall not be more than 10m in height and width not less than 15m.

5.3 The toe of spoil bank face shall not be permitted to approach a railway or other public works, public roads or buildings or other permanent structure not belonging to the owner of the mine closer than a distance equal to the vertical height of the face.

5.4 A suitable fence shall be erected between any railway line, other public works or road, or buildings or structures and the toe of every active spoil bank so as to prevent unauthorized persons from approaching the spoil bank.

5.5 No person shall, or shall be permitted to approach the toe of an active spoil bank where he may be endangered from material rolling down the face. Suitable warning signs at conspicuous places shall also be displayed.

5.6 At the edge of the tip, a safety berm shall be formed having a height equivalent to half the wheel diameters of the trucks/tippers/dumpers dumping. In any event, this berm shall not be less than 1m in height.

5.7 The spoils, overburden or debris shall not be deposited within 45m of a railway line, public road, transmission, telephone or power lines, other public works or other structures of permanent nature not belonging to management.

6.0 Maintenance of Machines:

6.1 If the engineer, mechanical foreman or other competent person making an inspection notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.

6.2 Any defect in machinery reported by its operator shall be promptly attended to.

6.3 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position 'OUT OF SERVICE DO NOT USE' and its use shall be prohibited until the unsafe condition has been corrected.

6.4 All repairs to a machine shall be done at a location which will provide a safe place for the persons engaged on repairs.

6.5 Except for testing, trial or adjustment which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.

6.6 Power shall be disconnected when repairs are made to any electric machine.

6.7 Any machinery, equipment or part thereof which is suspended or held apart by use of slings, hoists or jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.

6.8 While inflating tyres, suitable protective cages shall be used. Tyres shall in no case be inflated by sitting either in the front of it or on top of the same.

6.9 The crane and overhead crane shall be subjected to proof load test and NDT test once in a year from a competent authority.

6.10 The pressure vessel receiver shall be subjected to hydraulic and NDT test and shall be carried by a competent authority.

6.11 In case of any defect in equipment such as brake, steering and safety device, the equipment shall immediately be taken out from use keeping a record thereof.

7.0 Design, operation and maintenance of shovels, excavators, pay loader & other machineries:

7.1 All the repairs of the machinery or vehicles shall be done at properly laid repairs shed and workshops so as ensure due protection to work persons deployed at those place from the movement of Heavy earth Moving Machinery.

7.2 Every place of drilling and Earth moving machinery or equipment (hereinafter called machine) and every truck, dumper etc. (hereinafter called vehicle), shall be maintained in good and safe working condition.

7.3 (a) Every machinery or vehicle shall be provided with efficient warning devices, adequate front and rear lights and efficient brakes.

(b) Every shovel, excavator and pay-loader shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp in emergency, suitable portable fire-extinguishers and retracting ladders.

(c) The operators cabin of Heavy Earth Moving Machinery shall be well designed and substantially build. The cabin of all new machinery and vehicles shall be fitted with air conditioners so as to ensure adequate protection to the operator against heat, dust, noise etc. Efforts shall be made to provide air conditioner in the old non air conditioned machineries and vehicles. The design of machinery and vehicle shall be such as to provide adequate safety to the operator in the event of overturning Heavy Earth Moving Machinery. A seat belt for the safety of the operator shall be provided. Every shovel excavator, pay loader, Dozers, and drills shall be provided with Fire

resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire and fire resistant sleeves and conduits where cable/wire is used;

7.4 The following safety features shall also be provided in with every shovel and excavator in particular-

- (i) All functions cut-off switch;
- (ii) swing motor brake;
- (iii) Vent valve on top of hydraulic tank of such a type which is removable without any tool;
- (iv) a baffle plate between cold zone and hot zone;
- (v) provision for limiting of hydraulic cylinders – stopper.
- (vi) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire is passed shall be fire resistant.
- (vii) Turbo charge Guard
- (viii) Seat belt.

7.5 All dozers shall also be provided with roll over protection, turbo charge guard, fire resistant hydraulic hoses and wiring near hot zone and seat belt.

7.6 All drills shall also be provided with the following safety features in particular-

- (i) approved type of dust prevention or suppression system including wet drilling arrangement;
- (ii) each moving parts shall be guarded/fenced in effective manner;
- (iii) emergency push button switch in operator's cabin, main frame, propeller pendent and rear end;
- (iv) tripping device to trip the field switch;
- (v) thermostat motor protection relay in winding armature and other related parts;
- (vi) explosive vent in transformer;
- (vii) proper interlock (an electric interlock between drilling and propeller operation);
- (viii) high air discharge temperature switch;
- (ix) low lube oil pressure switch;
- (x) oil stop valve (electric solenoid valve in compressor lubrication line);
- (xi) no bump circuits
- (xii) tower lock and lock check valve
- (xiii) proper joystick - spring loaded type to return to neutral (dead man safety)
- (xiv) disk brake and brake valve and its testing parameters;
- (xv) lock check valve for preventing creeping in drill;

(xvi) seat belt

(xvii) Fire resistant hydraulic hoses and wiring near hot zone Turbo charge guard.

(xviii) Cabin for the operator.

7.7 Every shovel, excavator and pay-loader shall be under the charge of a competent person, authorized in writing by the manager, herein called the 'Operator'.

7.8 All persons employed or to be employed to operate HEMM shall be trained.

7.9 Only such fitters/mechanics possessing driver's/operator's license, shall be allowed to carry out test-run of HEMM.

7.10 No person other than the operator or the manager or any person so authorized in writing by the manager shall ride on a shovel, excavator or pay-loader.

7.11 No person shall be permitted to ride in the bucket of a shovel, excavator or pay-loader.

7.12 Shovel/excavator dippers and pay loader bucket shall be lowered to the ground during greasing operations.

7.13 No shovel, excavator or pay loader shall be operated in a position, where any part of the machine or suspended loads there from are bought closer than 3 m to exposed high voltage transmission lines, unless the current has been cut off from such exposed transmission lines, and positive means have been taken to prevent the lines from being energized. A notice of this requirement shall be posted at the operator's position.

7.14 Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by any mobile equipment.

7.15 When not in use, shovel, excavator and pay-loader shall be moved to and stood on stable ground.

7.16 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is adequate space for safe operation of each equipment, and there is no danger from flying or falling pieces of stones etc. from one machine to the other.

7.17 The safety features recommended in equipment's shall be made a part of the notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

8.0 Duties of shovel, excavator & pay loader operators:

8.1 Before any machine is put into operation, the operator shall look for any placards/tags on the machine like "OUT OF ORDER", "UNDER REPAIRS", etc. and in case such tags are seen anywhere in the entire system, the machine shall not be started.

8.2 At the commencement of his shift, the operator shall personally inspect and test the machine, paying special attention to the following details –

(i) that every warning device is in working order,

(ii) that it is mechanically sound and in efficient working order, and

(iii) that the lighting fixtures are in proper working order, if the machine is required to work beyond day-light hours.

8.3 He shall not take out the machine for work nor shall he work the machine, unless he is satisfied of its safe working order.

8.4 The operator shall maintain a record of every inspection made under clause 8.2 in a bound paged book kept for the purpose, and shall sign every entry made therein.

8.5 The operator shall keep the cab window clean so as to ensure clear vision at all times.

8.6 The walkways in or about the cab of any shovel, excavator and pay-loader shall be kept free of loose tools, grease containers or other materials that might fall or give rise to tripping hazard.

8.7 The operator shall not operate the machine when persons are in such proximity as to be endangered. The danger zone for each loading machine shall be declared by the manager and demarcated distinctly.

8.9 Before leaving the machine, the operator shall lower the bucket to the ground.

8.10 The operator shall not allow any unauthorized person to ride on the machine.

9.0 Design, operation and maintenance of trucks and dumpers:

9.1 Every truck or dumper and other mobile equipment shall be maintained in good and safe working condition and shall be provided with:

A - Tipper/Trucks:

i. Cabin Guard Extension. Canopy shall cover the operator's fully.

ii. Exhaust/Retard Brake: Device to control the speed of truck while operating down the gradient. Refer DGMS (Tech) Circular 02 of 2004.

iii. Propeller Shaft Guard: Propeller shaft guard as specified in DGMS (Tech) circular 10 of 1999.

iv. Tail Gate Protection: Protection of operator against collision either by head on or head to Tail.

v. Limiting speed device: Enable mine management to decide the maximum speed of vehicle to be operated in mine. The device may be Electronic or mechanical type speed governors.

vi. Audio – visual alarm while reversing: The audio – visual alarm provided should conform to DGMS (Tech) Circular No. 01 of 2010.

vii. Provision of Two breaks: One of brakes shall be fail safe. For details refer DGMS Circular 09 of 1999.

viii. Body lifting position locking arrangement: A hooter along with an indication is provided to indicate the body is still in lifted position.

ix. Fire suppression System: Refer DGMS circular 10 of 2004. The fire suppression system shall be a factory fitment and of approved type from Directorate.

x. Blind spot mirror: Operator can have view in blind spot area.

xi. Fire resistant hoses at hot zone: To decrease chance of fire.

xii. Electric Wires and sleeves are to be of fire resistant quality: To decrease chance of fire.

xiii. Turbo Charge Guard and exhaust tube coated with heat insulated paint: To decrease chance of fire.

xiv. Battery Cut off Switch: To decrease chance of fire.

xv. Retro reflective reflectors on all sides: For visibility of truck during night.

- xvi. Seat belt reminder: To alert operator for using the seat belt.
- xvii. Proximity warning device: To alert operator when approaching other vehicles/ obstruction.
- xviii. Rear Vision System: To assist operator during reversing refer DG Circular No. 12 of 2009.
- xix. Auto dipping System: To reduce glaring on eyes of operator during night operations.
- xx. Load Indicator and Recorder: Enables management to detect and prevent over loading.

B - Dumpers:

- i. Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
- ii. Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
- iii. Mechanical type Anti-collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
- iv. Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire are passed shall be fire resistant.
- v. Seat belt for operator.
- vi. The maximum speed of vehicle shall be restricted to 30Km/hours by blocking higher gear or any other automatic means.
- vii. Proper shaft guard.
- viii. Proximity working device.

9.2 The operator's cabins of dumpers/tippers/other mobile equipment's shall be well designed, substantially built and air conditioned so as to render adequate protection to the operator against heat, dust, noise etc. A seat belt for the safety of the operator shall also be provided in the dumper/vehicle.

9.3 The audio-visual alarm provided on trucks/dumpers/other mobile equipment shall be of such intensity which is not less than 5 dB(A) above the surrounding noise level.

9.4 Every truck or dumper shall be under the charge of a competent person authorised in writing by the manager herein called the 'driver'.

9.5 All persons employed or to be employed to drive/operate trucks/dumpers/tippers shall be properly trained.

9.6 Only such fitters/mechanics possessing driver's/operator's license, shall be allowed to carry out test-run of trucks/dumpers/tippers.

9.7 No person other than the driver or the manager or any person authorized in writing by the manager shall ride on a truck or dumper.

9.8 No person shall, or shall be permitted to, ride on the board of a running truck or dumper.

9.9 No vehicle shall be loaded/unloaded on gradient.

9.10 As far as possible, loaded trucks or dumpers shall not be reversed on gradients.

9.11 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion, material is dumped.

9.12 Code of Traffic Rules framed by the Manager shall be adopted and followed during movement of all trucks and dumpers. They shall be prominently displayed at relevant places in the opencast workings and on truck/dumpers roads.

9.13 When not in use, every truck or dumper or other wheeled trackless machinery shall be moved to and parked at proper parking place(s) which shall be on level ground and away from working area of other mobile equipment. The truck or dumper or other wheeled trackless machinery shall not be parked at a place where it cannot be observed.

9.14 No person shall, or shall be permitted to, work on the chassis of a truck or dumper, with the body in a raised position unless the truck or dumper body has been securely blocked in position. The hoist mechanism shall not be depended upon to hold the body of the truck or dumper in a raised position.

9.15 Suitable points shall be designated for parking utility vans and other light vehicles in the opencast workings, which in no case shall be less than 30m away from the area where mobile HEMM operates. The light vehicles shall in no case be taken beyond the designated point unless operation of HEMM in the vicinity has been stopped.

9.16 No person other than those authorized shall be permitted to enter or remain in any dumping yard, loading and unloading points and turning points.

9.17 In respect of every truck/dumper or class of truck/dumper, the maximum load to be hauled shall be determined and notified to operators/drivers by the Manager. Speed limits at which such loads can be hauled shall also be determined and fixed by the Manager, depending on the road gradient, direction of movement, road surface etc., and notices/sign boards specifying the same shall be posted along the haul road at appropriate places/sections.

9.18 The safety features recommended in dumpers/trucks/tippers shall be made a part of the notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

10.0 Duties of truck/dumper/tipper operators:

10.1 Before commencing work, the driver shall personally check the dumper/truck/tipper for oil(s), fuel & water levels, tyre inflation, and general cleanliness, and inspect and test the vehicle, paying special attention to the following details:

- (i) that brakes and steering system including emergency steering are in proper working order;
- (ii) that the warning devices including automatically operated audio-visual reversing alarm and rear-view camera are in working order;
- (iii) that rear view mirrors on either side of the vehicle and blind spot mirror is provided;
- (iv) that side indicator lights are in working order; and
- (v) that head lights are in working order, if the vehicle is required to work after day-light hours.

10.2 The driver/operator shall not take out the vehicle for work nor shall he drive the vehicle, unless he is satisfied that it is mechanically sound and in efficient working order.

10.3 He shall wear the seat belt before starting the vehicle and shall also ensure that other person(s), if so authorized to ride in the vehicle, are properly seated and also wear safety belts.

10.4 The driver shall maintain a record of every inspection made under clause 10.1 in a bound paged book kept for the purpose and shall sign every entry made therein.

10.5 The driver shall keep the cab window clean so as to ensure clear vision at all times.

10.6 The driver shall ensure that the gear is in neutral position, and parking brake is on, before stopping the engine.

10.7 The driver shall handle the truck/dumper carefully and keep it under control at all times. He shall negotiate downhill gradients in low gear so that minimum of braking is required.

10.8 He shall not drive too fast, shall avoid distractions and shall drive defensively. He shall not attempt to overtake another vehicle unless he can see clearly area enough ahead to be sure that he can pass it safely without exceeding the speed limit, and that area ahead is free of any road intersection or junction. He shall also sound audible warning signal before overtaking and shall not attempt to pass the other vehicle until he has received a proper audible signal in reply.

10.9 When approaching stripping equipment, the driver of the truck or dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has received a proper audible signal in reply.

10.10 Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or railway line and shall proceed across the road or railway line only if it is safe to do so.

10.11 The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle. He shall give an audible warning signal before reversing a truck or dumper.

10.12 Driver shall be sure of clearance before driving through tunnels, archways, plant structure etc.

10.13 The driver shall not drive 'nose to tail' particularly behind a vehicle with twin rear wheels from which a stone piece wedged between the tyres may fly back into the windscreen of his vehicle.

10.14 He shall sound audible warning while approaching blind corners or any other points where person may walk in front unexpectedly.

10.15 The driver shall see that the vehicle is not overloaded and that material is not loaded in a manner as to project horizontally beyond the sides of the vehicle's body and that any material projecting beyond the front or rear is indicated by the red flag during day and a red light after day-light hours.

10.16 The driver shall not allow any unauthorized person to ride on the vehicle. He shall also not allow more than the authorized number of persons to ride on the vehicle.

11.0 Duties of Mechanics, Fitters or Engineers:

(a) At the commencement of every shift he shall personally inspect and test every machine and vehicle paying special attention to the following details:

(i) That the brakes and the warning devices are in working order;

(ii) If the vehicle or machine is required to work after day light hours that the lights are in working order. He shall not permit the vehicle or machine to be taken out for work not shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

(b) The mechanic shall maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

12.0 Duties of manager:

It shall be the duty of the manager:

a) to ensure compliance with the aforesaid precautions.

- b) To determine and specify in respect of every vehicle the maximum load to be hauled and maximum speed of the vehicle and cause notices specifying the same to be posted along the road at appropriate places;
- c) To cause warning notices (drawing attention to any necessary precautions) to be posted along the truck or haulage roads at appropriate places, like level crossing , curve and turning points etc.
- d) To designate the persons authorized to ride on trucks;
- e) To give every truck driver directions in writing with respect to loads, speed, persons authorized to ride on trucks and precautions necessary for safe running.
- f) To countersign entries in books and records to be maintained in pursuance of these precautions;
- g) To take such other precautionary measures as may be necessary to ensure safe operation and maintenance of transport vehicles and for the safe of work persons.

13.0 TESTING OF BRAKES:

13.1 Brakes of every truck, tipper and any other wheeled trackless machine shall be tested at least once in two weeks, in a manner as indicated below:

(a) SERVICE BRAKE TEST : The brake shall be tested as specified by the manufacturer of the vehicle or on a specified gradient and speed when the vehicle is fully loaded. The vehicle should stop within a distance as specified by the OEM when the brake is applied, which shall be obtained from the manufacturer of the vehicle.

(b) PARKING BRAKE TEST : The parking brake shall be capable to hold the vehicle for a period of at least ten minutes when it is fully loaded and placed at the maximum gradient of roadway on which it is permitted to ply.

13.2 A record of every such test carried on every dumper/truck/tipper/other mobile HEMM shall be kept maintained in a bound paged book which shall be signed by the person carrying out the tests and shall be countersigned by the engineer and the manager. In case any defect in braking system is observed in any equipment/HEMM, such equipment/HEMM shall be taken off from operation and record thereof shall be kept maintained.

13.3 All of the above procedure and precautionary measures regarding i.e. testing of brakes including service brake, retard brake, parking brake and steering shall comply the provisions as stipulated in DGMS Technical Circular Nos.36/1972, 03/1981 and 04/2012 i.e. Service brake, Retard brake, parking brake and steering shall be tested with accelerating the engine to 1400 RPM, 1300RPM, 1200 RPM and 1000 RPM respectively.

14. Drilling and blasting of deep holes:

A General:

14.1 Operations connected with Drilling, Charging, Stemming and Blasting of deep holes shall be placed under overall charge of Foreman, holding at least a foreman's certificate of competency granted under the Metalliferous Mines Regulations, 1961.

14.2 Notwithstanding anything contained in the Metalliferous Mines Regulations, 1961, preparation of charges, charging and stemming of holes shall be carried out under the personal supervision of a mine Foreman.

14.3 A proper record for every blast, showing blasting parameters like hole size, spacing, burden, depth of holes, number of holes fired in the round, charge/hole, charge/delay and total charge of explosives fired in the round, with a rough sketch showing the drilling and firing pattern shall be kept maintained in a bound paged register kept for the purpose.

B Drilling of Deep Holes

14.4 The area where drilling is to be done shall be thoroughly cleaned of loose rocks and debris and position of every deep hole to be drilled shall be distinctly marked by the blasting foreman, so as to be readily seen by the drillers. No person shall be permitted to remain within a radius of 20 meters or within 60 m on the same bench where charging of holes with explosives is being carried out.

14.5 No drilling shall be commenced in an area where shots have been fired, until the blaster/ blasting foreman has made a thorough examination of all places, including remaining butts of old deep holes, for unexploded charges that the drill rod may strike.

14.6 Drilling and charging of deep holes shall not be carried out in the same area at the same time.

14.7 Burden and spacing shall be suitably adjusted to ensure proper fragmentation, effective utilization of explosive energy and throw of debris/mineral do not exceed 10.0 m.

15.0 Bulk Transport of explosives:

Where explosives are transported in bulk for deep hole blasting the following precautions shall be taken: -

(1) Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. The explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

(2)(a) No mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions: -

(i) Not more than 200 detonators are transported in a vehicle at a time;

(ii) The detonators are packed suitably in a wooden box; The wooden box containing detonators is placed inside an outer metal case of construction approved by the Chief Inspector; The outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about while the vehicle is in motion; and

(iii) No person shall ride on the rear portion of the vehicle.

(b) Every vehicle used for transport of explosive shall be marked or placarded, on both sided and ends, with the word EXPLOSIVE in red letters not less than 25 centimetres high on a white background.

(c) Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.

(3)(a) The vehicle used for the transport of explosives shall not be overloaded and in no case shall explosive cases be piled higher than the sides of its body.

(b) Explosives and detonators shall not be transported in the same vehicle at the same time.

(4)(a) No person other than the driver and his helper (not below 18 years of age) shall ride on a mechanically propelled vehicle used for the transport of explosives.

(b) A vehicle loaded with explosives shall not be left unattended.

(c) The engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.

- (d) A vehicle loaded with explosives shall not be driven at a speed exceeding 25 Km/hr.
- (e) A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
- (f) A vehicle transporting explosives shall not be refuelled except in emergencies and then only when its engine is stopped and other precautions taken to prevent accidents.
- (g) No trailer shall be attached to a vehicle transporting explosives.

(5)(a) Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:

- i. Fire extinguishers are filled and in place;
- ii. The electric wiring is well-insulated and firmly secured;
- iii. The chassis, engine and body are clean and free from surplus oil and grease;
- iv. The fuel tank and feed line are not leaking; and
- v. Lights, brakes and steering mechanism are in good working order. (b) All report of every inspection made under sub-clause(a) shall be signed and dated by competent person making the inspection.

(6) All operations connected with the transport of explosives shall be conducted with the personal supervision of a Foreman solely placed in charge of blasting operations at the mine.

(7) The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

15.1 Charging of Deep Holes:

- (1) General precautions and rules regarding handling of explosives shall be observed by the blasting crew. Only such minimum number of persons shall be allowed to remain at the charging site as are required during charging operations and firing of shot holes.
- (2) The entire area where charging of explosives is to be done shall be demarcated by suitable flags and effectively guarded to prevent unauthorized entry of persons or plying of other vehicles and shall be kept free from dry vegetation and other combustible material.
- (3) Smoking, naked light or open flames shall not be allowed within 300 m of the area where charging of explosives is being carried on.
- (4) The holes shall be charged (and fired) as soon as possible after the explosive is transported to the site of blasting. All normal precautions for charging(&firing) as laid down in Metalliferous Mines Regulations, 1961 shall be strictly observed.
- (5) Explosive cartridges shall not be slit or deformed. Adequate amount of cap sensitive explosive shall be used with non-cap sensitive explosive charge to ensure complete detonation of the explosive charge.
- (6) Explosives shall be delivered/charged first into the hole farthest from the 'Priming Station', so as to avoid persons walking among piles of explosives and charged holes.
- (7) Not more than one hole shall be in process of being charged on any face at any point of time.

(8) All operations connected with charging, stemming and making connections shall be done while standing on the solid ground that is to stay, on the side of holes away from the quarry face.

(9) The cartridges of explosives shall be lowered carefully into the shot holes, so as to avoid sticking of cartridges in the shot holes, thereby causing air space(s) in the explosive column. After charging such hole with explosives, the length of the uncharged/remaining portion of the hole shall be measured to confirm that the cartridges are in close contact with each other and there is no air gap between the explosive column. In case, the length of uncharged portion of the hole is not as per calculation, thereby indicating the presence of air space, attempt may be made to push down the charge in case of slurry explosives only. The remaining hole shall then be stemmed with moist sand/aggregate of suitable size before blasting the shot holes.

(10) Explosive charge shall not be allowed to sleep over in holes unless express permission in writing to the effect is obtained.

16.0 Precautions during Blasting/Firing:

16.1 Shots shall not be fired except during the hours of day light. All holes charged on any one day shall be fired on the same day.

16.2 Shots shall not be fired in crushed, broken or fractured ground.

16.3 As far as practicable, deep holes shall be fired either between the shifts, or during the rest interval, or at the end of work for the day.

16.4 A distance of 300 meters, herein after be called "Danger Zone" in any direction, from the place of firing. The danger zone shall be distinctly demarcated (by means of red flags or other suitable means) at least 30 minutes before firing of holes.

16.5 Proper and distinct warning by a siren installed for the purpose shall be given within the danger zone, at least 10 minutes before the holes are fired.

16.6 Before the holes are charged, stemmed and fired, the blaster/blasting foreman, with assistance of his assistants, appointed in sufficient number in writing by the manager, shall ensure that all persons have either left the danger zone, or have taken adequate shelter.

16.6.1 In case, part of public road lie within the danger zone, guards shall be posted on either end of the road falling within danger zone and traffic shall be stopped before shot are fired. In the event of any railway line or public road lying within danger zone, No shots shall be fired when there is traffic on railway track or public road.

16.7 During the approach and progress of an electric storm the following precautions shall be taken:

(a) No explosive, particularly detonators shall be handled;

(b) If charging operations have been commenced, the work shall be discontinued until the storm has passed;

(c) If the blast is to be fired electrically all exposed wires shall be coiled up and if possible, placed in the mouth of the holes, or kept covered by something other than a metal plate;

(d) All wires shall be removed from contact with the steel rails of a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightening.

16.8 After shots have been fired; no person shall enter or be allowed to enter the place, until 30 minutes after firing of the shots. Before allowing any person to enter the area, the in-charge of the blasting operations shall make sure that the area is free from dust, smoke or fumes.

16.9 In case of misfires, precautions as laid down in Regulation 167 of the Metalliferous Mines Regulations, 1961 shall be taken.

16.10 (a) Slurry explosives shall be used in opencast mines in the order of their date of manufacture.

(b) Explosives manufactured earlier than six months shall not be used. In case the shelf life of the explosive is less than 6 months it shall not be used after expiry of the shelf life.

16.11 (a) Slurry explosives when transported in vehicles shall be carried in an Explosive Van approved by the Chief Controller of Explosives.

(b) Explosive vans used for the transport of explosives shall be in safe operating condition and should be driven by competent licensed drivers.

(c) The vans shall be kept in isolated locations while loaded.

(d) Vans shall be well locked except during times of placement and removal of stocks of slurry explosives.

(e) Smoking and open flames shall not be permitted in or near the vans containing slurry/emulsion explosives.

16.12 All detonators and primed cartridges shall be kept in secure receptacles at a safe distance from the detonating fuse and the explosive until actually required for use.

16.13 The cases of slurry explosives shall not be opened unless the holes are ready for charging in every respect.

16.14 The holes shall be charged and fired as soon as possible after the explosive is transported to the site of blasting. All normal precautions for charging and firing as laid down in the Regulations shall be strictly observed.

16.15 The entire operations of transport of the explosive to the site of its use, cutting & slitting of cartridges and charging and blasting shall be placed under the overall charge of a competent person holding Foreman/Mate certificate or such other qualifications as may be approved by the Director-General of Mines Safety and appointed in writing by the Manager for the purpose.

16.16 No secondary blasting shall be done in the mine. Whenever it is required to break big pieces of rocks, rock breaker shall be used.

17.0 FENCING AROUND OPENCAST WORKINGS: The periphery around the limits of opencast workings, and edges of benches of the opencast workings shall be kept fenced in accordance with DGMS Circular No 11 of 1959.

18.0 PRECAUTIONS AGAINST FIRE:

18.1 A code of practice shall be drawn up for dealing with fires at different locations in the opencast mine, and for dealing of fires in heavy earth moving machinery.

18.2 Automatic fire protection system shall be provided and kept maintained in working order on every HEMM used for loading and transportation.

19.0 Precautions against dust:

19.1 Adequate arrangements to suppress dry dust by wetting shall be made, if during any operation of drilling, loading, unloading, crushing, dressing etc., dust is likely to be produced in such quantity (not more than 3mg/m3) as may be injurious to the health of persons, as also on roads and benches where trucks and dumpers operate. Dust surveys shall be done as laid down in Regulation 124 of Metalliferous Mines Regulation, 1961.

19.2 Truck mounted drill machines design for tube well drilling for sources of water shall not be used. Only proper type of Blast Hole Drill Machine, specially designed for mining purpose having wet drilling arrangement, shall be used.

19.3 Adequate arrangements to allay dry dust, by wetting, shall be made on haul roads and Benches where mobile HEMM, trucks and tippers operate.

19.4 All drills shall be provided with wet drilling arrangement or with a device, duly approved by the Chief Inspector of Mines, to prevent atmosphere getting charged with dust, which shall be kept in operation during drilling operations and it shall be maintained in efficient working order. No dry drilling operation shall be carried on.

20.0 Protections of workers against noise & vibration: Suitable steps shall be taken by all appropriate means to reduce the exposure of workers to any excessive noise and vibration. Guidelines given in DGMS (Tech.) Circular No. 18 of 1975 and 5 of 1990 shall be strictly complied with. The persons engaged in operation of drill machines, dozers etc. who are exposed to high noise level shall be provided with ear muff mounted helmets.

21.0 GENERAL LIGHTING, PROTECTIVE EQUIPMENT, DUST, NOISE ETC.

21.1 General Lighting: Where natural lighting is insufficient, adequate general lighting as per the standards laid down in Notification No. GSR-618(E), dated 28th April, 2017, published in the Gazette of India dated 21st June, 2017, Part II Section 3(i). [reproduced in No. DGMS (Legis.) Circular No. 03 of 2017 Dhanbad, dated], issued under Regulation 148(2) shall be provided during working hours in the opencast workings and along roads, etc. For proper inspection of the high sides and benches of the opencast workings at night, suitable search lights shall be provided.

22.0 Protective equipment:

(a) Every person working in the mine shall be provided with, and shall use, a helmet, protective, Footwear, fluorescent jacket, dust masks, goggles and ear plugs/earmuffs of a type approved by the Chief Inspector of Mines.

(b) Every person permitted to work on height or at any place having inclination of 45 degrees or more, from where he is likely to slip or overbalance, shall be provided with, and shall use, a full body harness of a type possessing valid BIS license and approved by the Chief Inspector of Mines.

23.0 Code of safe work practices:

23.1 A suitable 'Code of Traffic Rules & Safe Work Procedures' for regulating the movement of Heavy Earth Moving Machinery, trucks, tippers and other wheeled trackless machinery (commensurate with the capacity/size type of machines used in the mine) shall be framed and enforced immediately. Such Code of Traffic Rules should be deliberated and approved by Tri-partite Committee. A copy of traffic rules, in a language understood by them, shall be made over to all concerned, i.e., to drivers and operators of HEMM/trucks/tippers (including those belonging to contractors), supervisors and mine officials, and to such other persons who monitor/control movement of HEMM.

23.2 A suitable 'Code of Practice' for prevention of injuries to persons engaged in tipping on stock piles, tipping at crusher, dumping of overburden at dump yards, at loading and unloading points etc. (commensurate with the capacity/size type of machines used in the mine) shall be framed and enforced immediately. Such Code of Practice should be deliberated and approved by Tri-partite Committee. A copy of the code of practice, in a language understood by them, shall be made over to all concerned, i.e., to dump-men, drivers and operators of HEMM/trucks/tippers (including those belonging to contractors), supervisors and mine officials, and to such other persons who monitor/control dumping/tipping operations.

23.3 A suitable "Code of Practice" for dealing with fires/spontaneous heating at different locations, machineries, vehicles, etc. shall be framed and enforced immediately. Arrangements for fire-fighting shall be provided on all HEMM. Such arrangements shall, if possible, operate automatically on appearance of fire or occurrence of spontaneous heating. The automatic fire fighting arrangement shall be provided with optical, thermal or any other suitable fire sensing devices suitably located to sense any rise in temperature beyond a predetermined limit or fire and automatically actuate the fire suppressant from a container(s) to such fire hazard areas of the machine through fixed plumbing network and nozzles. NOTE: Above "Codes" shall be constantly and prominently displayed at every relevant place including in the opencast workings, workshops, truck-dumper roads, spoil/coal-heaps, material yards, etc.

24.0 Miscellaneous:

24.1 (a) Trucks, tippers and other heavy vehicles, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. At the check gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle.

(b)(i) Persons engaged in surface operation and in particular, the Contractor's workers shall be provided closer and competent supervision.

(ii) All persons engaged at any work within the mine premises through the contractors shall be provided relevant training and other job-related briefings and that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".

(iii) Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the manager.

24.2 Separate stock yards shall be maintained for dumping and dispatch of minerals and it shall be ensured that dispatch of minerals is not carried out from the stock yard where dumping is under progress.

24.3 All contractor workers shall be vocationally trained as per the provisions of Mines Vocational Training Rules, 1966, before deploying in opencast working and shall be duly authorized by the manager as competent persons.

24.4 The driving license and V.T. Certificate of all the operators of the transporting machinery deployed in the mine shall remain in the safe custody of the Manager (against receipt) and the operators may carry the photocopy with them whilst on duty.

24.5 The attendance of the operators of tippers/trucks shall be recorded every time they enter the mine boundary.

24.6 Hours and limitation of employment of contractor's employee shall be as prescribed in Section 28 to 35 of the Mines Act, 1952 in respect of above ground and opencast workings and shall be strictly complied with.

Your Faithfully



ASHOK KUMAR (DIRECTOR - JABALPUR REGION)



पश्चिम मध्य रेल
West Central Railway

मंडल रेल प्रबंधक कार्यालय
इंजीनियरिंग शाखा, जबलपुर
DRM office
Engineering Branch, Jabalpur
Phone: 0761-2625935

No. JBP/W/PLG/GENI/02

Date: 18.05.2023

GM (Mines)
Prism Johnson Limited

Sub: No Objection Certificate to carry out controlled deep hole blasting beyond 100m but not within 100m from STA-REWA Railway Line.

Ref: Your application dated 25.04.2023.

In reference to your application in the subject matter dated 25.04.2023, it is informed that various stipulations of subject matter along with impact mitigation measures to carry out blasting as listed by DGMS, has been studied and competent authority has accorded his approval for grant of NOC for carrying out mining operations with controlled deep hole blasting beyond 100m but not within 100m from STA-REWA Railway Line passing nearby Baghai Limestone Mining lease boundary of your firm at village-Baghai, Tehsil-Rampur Baghela, Dist.- Satna, MP, with the condition that:

"Agreed in principle but damage (if any) during blasting should be recovered from the firm."

This is for your kind information please.

Munir
18.05.2023
DEN (North) JBP

C/- DRM/JBP: for kind information please.

C/- Sr. DEN (Co) JBP: for kind information please.

C/- ADEN/North/STA: for information and necessary action please.

C/- SSE (PW) Rewa: for information and necessary action please.

C/- SSE (Works) North/STA: for information and necessary action please.



भारत सरकार
Govt. of India
अम एवं रोजगार मंत्रालय
Ministry of Labour & Employment
राजन सुरक्षा महानिवेशालय
Directorate-General of Mines Safety



NO: 361177|WZ|Jabalpur Region|relax|2023|252893

Date: 30/01/2023

From
Director of Mines Safety,

Jabalpur Region.
To
KOUSIK DAS, Manager
Bahgai Limestone Mine,
Prism Johnson Limited
vill-Mankahri, Dist-Satna, M.P. .

Subject: Relaxation under Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole drilling and blasting at Baghai Limestone Mine of M/s Prism Johnson Limited located at village-Baghai, Tehsil-Rampur Bahgelan, Dist- Satna (M.P)

महोदय,

Please refer to your online application submitted vide ID: 252893, dated 19.12.2022, offline letter no. PJL/MINE/BG/2022/948 dated 19.12.2022 enclosing therewith Surface Plan No. PJL/BG/2022/105 dated 19.12.2022 of the mine in offline mode on the above subject.

The matter has been considered in the light of information furnished by you in your application and accompanying plans/sections and other enclosures.

In exercise of the powers conferred on the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961, and by virtue of the authorization granted to me by the Chief Inspector of Mines (also designated as Director-General of Mines Safety) under Section 6(1) of the Mines Act, 1952, I hereby grant you relaxations from the Provisions of Regulation 106(2)(b) of the Metalliferous Mines Regulations, 1961 to use Heavy Earth Moving Machineries (HEMMs) in conjunction with a system of deep hole drilling and blasting at Baghai Limestone Mine of M/s Prism Johnson Limited located at village-Baghai, Tehsil-Rampur Bahgelan, Dist- Satna (M.P) in the area bounded and marked by points **A-B-C-D-E-F-G-H-I-J-A3-A4-A5-A6-A7-A8-A9-B12-B13-B14-B15-B16-B17-A10-A11-N-O-P-A** (**excluding the area bounded by 1-2-3-4-4-6-1, 7-8-9-10-11-12-7 and 13-14-15-16-17-18-19-13**) & **A28-B2-B3-B4-B5-B6-B7-B8-B9-A31-A32-A33-A34-A35-A36-A37-A38-A39-A40-A41-A28** as shown on Surface Plan No. PJL/BG/2022/105 dated 19.12.2022 subject to the following conditions being strictly complied with.

1.0 General:

1.1 The conditions as mentioned in the Annexure 'A' of this permission letter shall be strictly complied with.

1.2 Except where otherwise provided for in this permission, all provisions of the Metalliferous Regulations, 1961 relating to opencast workings, use of explosives and use of machinery etc. shall be strictly complied with.

1.3 The opencast workings shall not be extended in areas within the lease unless the land has been acquired by the mine owner and is under the owner's physical possession.

1.4 No working shall be made or extended within 45 m of any building/structure/railway of permanent nature, not belonging to owner of the mine without permission in writing from this Directorate under Regulation 109 of the Metalliferous Mines Regulations, 1961.

1.5 No working shall be made in any spot lying within horizontal distance of 15 m from either bank of the Canal or any stream, Nallah, etc. without obtaining permission in writing from this Directorate under Regulation 127 of the Metalliferous Mines Regulations, 1961. Adequate protection against inrush of Nallah water in the mine shall be provided and maintained.

1.6 During heavy rain, the Manager or senior most mine official present in the mine, shall go round the surface area of the mine to check vulnerable points and effectiveness of the safety measures. Standing orders for withdrawal of persons from the mine in case of apprehended danger should be framed and enforced.

1.7 (a) No deep hole blasting shall be carried out within 300m of any structure not belonging to the owner unless permitted by this Directorate in writing under Regulation 164(1-B) of the Metalliferous Mines Regulations.

(b) No blasting shall be conducted using SME/SMS/ANFO explosive without having valid permission obtained under Regulation 155(1) & 162(5) of Metalliferous Mines Regulations, 1961

(c) Regular deep hole blasting shall be carried out using Shock tube/Non-electric initiation system.

(d) The working faces in the mine shall be so oriented that the free face for blasting is away from the adjoining mine/Crusher/school/temple etc. if any.

1.8 No blasting in the mine shall be carried out within 300m of the public roads till such time the blasting in charge has ensured that no persons/vehicles pass on such roads during the time of blasting. For the purpose, drop bar barrier shall be provided on both side of such road at a distance of 300m from the place of firing of shots in the proposed limit of quarry and during blasting, guard shall be posted on the barrier and persons/vehicles shall not be allowed to pass on said road during blasting and till the time all clear signal after blasting is obtained.

1.9 Blasting shall be conducted only after ensuring that persons including blaster within 500 m radial distance from place of firing of shot holes have taken proper shelter. The persons/employees of the adjoining mine nearby and within 500m radial distance shall also be informed and ensured that they have taken proper shelter.

1.10 An embankment designed and constructed on sound civil engineering principles to serve as dam of at least 3m higher than the HFL shall be provided and maintained against the Nar nallah, to prevent inrush of water in the mine.

1.11 Special care shall be taken when any slip or other planes of weakness or other geological disturbances exist, so as to prevent danger to the work-persons.

1.12 The owner shall indemnify occupants/owners of the houses/ dwellings/ buildings/school/temples etc. or other structures of public authority concerned, if any, against the dangers to those properties or injury to them or other persons arising out of operations conducted under this permission.

1.13 No deep hole blasting shall be conducted within 100m of any dwellings, roads, railways and other important structures not belonging to the owner of the mine. The deep hole blasting in the mine shall be carried out strictly as per the stipulations laid down in Regulation 164 of the MMR, 1961.

1.14 No blasting for any purpose shall be done within 300m from the boundary of sub-station or from the electric supply lines of voltage exceeding 650V or tower structure thereof without the written permission of the owner of such sub-station or electric supply lines or tower structures as required under the provisions of CEAR,2010.

1.15 No blasting shall be conducted during school time

2.0 Supervision:

1.1 A person possessing First Class Mine Manager's Certificate of competency under Regulation MMR, 1961 shall be appointed as the manager of the mine. This permission shall stand revoked as soon as the qualified manager ceases to work at the mine. Use of HEMM shall be suspended in the absence of manager with aforesaid qualification.

1.2 Adequate number of supervisors including duly qualified Assistant Managers, Foremen and Mining Mates shall be appointed in each working shifts to assist the Manager. The Manager, Assistant Manager, Foreman and Mate shall be responsible to ensure compliance of stipulations of conditions governing grant of this permission and other provisions of the Regulations, Rules, bye-laws, orders, and circulars issued from time to time, as may be applicable. They shall also supervise transport and loading operations being done by contractor(s), if any

1.3 A duly qualified engineer shall be appointed to hold charge of all machinery at the mine and shall be responsible for the proper installation, maintenance and safe working of such machinery.

1.4 During production shift the opencast workings shall be placed under the charge of an Assistant Manager, holding at least Manager's Certificate who shall be responsible to see that all the regulations and the orders made there under are strictly complied with.

1.5 A code specifying duties and responsibilities of all mine-officials, i.e. Engineer, Supervisors, Technicians, Mechanics, Fitters, Machine Operators, helpers, loading supervisors etc. shall be drawn up by the Manager and distributed to all concerned.

1.6 The Manager shall issue to every Driver/Operator, Supervisor and Mine Official connected with the use of Heavy Earth Moving Machinery, a copy of rules/regulations/SOP, orders made there-under and guidelines listed in this permission governing his duties, in a language understood by the person concerned. The Manager and the Engineer shall be responsible to ensure that all the precautions and guidelines listed in this permission are strictly followed by all concerned.

1.7 It shall be the responsibility of the Manager, Engineer and other supervisors to ensure that all persons working in the mine, and those working on machines/equipment etc. work as per the code and all machines and equipment etc. are installed, operated and maintained in safe working conditions.

1.8 Operations connected with Drilling, Charging, Stemming and Blasting of deep holes shall be placed under overall charge of a person holding atleast Manager's Certificate of Competency granted under Metalliferous Mines Regulations, 1961, who shall supervise the said operations in accordance with the guidelines and directives issued by the Manager.

1.9 Blasting parameters of each blast with a sketch showing the drilling pattern and the holes charged shall be maintained in register kept for the purpose for each blast. A separate foreman as blasting in charge shall be appointed.

1.10 Manager shall frame code of practices for each operation and copy of it shall be handed over to all concerned. It shall be the duty of all statutory persons to enforce the code of practices so framed.

1.11 Manager shall in particular:- Prepare "Safety Management plan" as per guidelines of DGMS Circular No. DGMS (Tech) (S&T) Circular No: 13 of 2002, DGMS (Tech) (S&T) Circular No: 02 of 2011 & DGMS (Tech) (S&T) Circular No. 05 of 2016.

3.0 Please note that, this permission is subject to the following additional conditions.

3.1 In the event of any change in the circumstances connected with this permission which is likely to endanger the life of workmen employed in the mining operation for which this permission has been granted shall be

stopped forthwith and intimation thereof sent to this Directorate. The said mining operation shall not be resumed without an express and fresh permission in writing.

3.2 This permission may be amended or withdrawn at any time should it be considered necessary in the interest of safety.

3.3 If at any time any of the conditions subject to which this permission has been granted is violated or not complied with, this permission shall be deemed to have been revoked with immediate effect.

3.4 This permission is being issued specifically under the regulations mentioned above and without prejudice to any other provision of law, which may be or may become applicable at any time.

3.5 This permission/relaxation shall be valid for a period of 03 (three) years from the date of issue of this letter.

ANNEXURE-A

2.0 Opencast Workings:

2.1 Height and Width of Benches

(a) The height of benches in Alluvium shall not be more than 3.0m and that in overburden, ore body or other rock formation shall not be more than the digging height of the machine used for digging, excavation or removal and in any case, it shall not be more than 8.0m

(b) Width of any bench shall not be less than

- i. width of the widest machine plying on the bench plus 2m, or
- ii. if dumpers ply on the bench, 3 times the width of the dumper, or
- iii. the height of the bench, whichever is more.

3.0 GENERAL

3.1 Quarrying operations shall be conducted from top downwards.

3.2 The provisions of Sub regulation (4) & (5) of Regulation 106 shall be complied with.

3.3 When persons are employed within 5m of the working faces, adequate precautions shall be taken to ensure their safety by dressing the side of benches.

3.4 No person shall be engaged or work or allowed to travel close to high sides/benches, from which he is likely to fall for more than 1.8m vertically down, unless he is provided with and uses a safety belt or rope.

3.5 The sides in overburden and mineral benches shall be kept sloped to prevent danger from fall of sides.

4.0 Roads for Trucks and Dumpers etc.:

4.1 All roads for trucks, dumpers or other mobile machinery shall be maintained in good condition.

4.2 (a) where practicable, all roads from the opencast workings shall be arranged to provide one way traffic. Where this is not practicable, no road shall be of a width less than three times plus 5m width of the largest vehicle plying on the road unless definite turn outs and waiting points are designated.

(b) All corners and bends in roads shall be made in such a way that the operator of vehicle have clear view of distance of not less than 3 times the braking distance of largest HEMM working at 40Km/hour.

(c) Where it is not possible to ensure a visibility for a distance as mention in 4.4 (a), there shall be provided with two roads of width not less than 2 times plus 3m of largest vehicle plying on the road with a strong road divider at centre with adequate lighting and reflector along the divider.

(d) No road shall have a gradient more than 1 in 16 at any place, except for ramps over small stretches not exceeding 10m in length, where gradient up to 1 in 10 may be permitted.

(e) Where any road exists above level of surrounding area, it shall be provided with strong parapet wall or embankment of following dimensions.

(i) Width at top-not less than 1m.

(ii) Width at bottom-not less than 2.5m.

(iii) The height not less than the diameter of tyre of largest vehicle plying on road.

It may be noted that just dumping of mud of OB shall not be treated as strong parapet wall.

(f) Separate haul road shall be provided for light vehicles plying in mine premises. Where it is not practicable, definite turn outs, crossing points and waiting points shall be designated for use of vehicles.

5.0 Spoil banks/overburden dumps:

5.1 The slope of a spoil bank face shall be determined by natural angle of repose of the material being deposited, but shall in no case exceed 37.5 degrees from the horizontal. The spoil bank face shall not be retained by artificial means at the angle in excess of its natural angle of repose. Garland drains shall be provided around the periphery of the dumps, both at top and bottom, to collect run-off water.

5.1 Spoil-banks shall be adequately benched to maintain its stability and the general slope shall not exceed vertical to 1.5 horizontal. The overall height of dump shall not exceed more than 30m from its base. The benches shall be formed in OB dump in such a way that height of bench shall not be more than 10m in height and width not less than 15m.

5.3 The toe of spoil bank face shall not be permitted to approach a railway or other public works, public roads or buildings or other permanent structure not belonging to the owner of the mine closer than a distance equal to the vertical height of the face.

5.4 A suitable fence shall be erected between any railway line, other public works or road, or buildings or structures and the toe of every active spoil bank so as to prevent unauthorized persons from approaching the spoil bank.

5.5 No person shall, or shall be permitted to approach the toe of an active spoil bank where he may be endangered from material rolling down the face. Suitable warning signs at conspicuous places shall also be displayed.

5.6 At the edge of the tip, a safety berm shall be formed having a height equivalent to half the wheel diameters of the trucks/tippers/dumpers dumping. In any event, this berm shall not be less than 1m in height.

5.7 The spoils, overburden or debris shall not be deposited within 45m of a railway line, public road, transmission, telephone or power lines, other public works or other structures of permanent nature not belonging to management.

6.0 Maintenance of Machines:

6.1 If the engineer, mechanical foreman or other competent person making an inspection notices any defect in any machinery, the said machinery shall not be used until the defect has been remedied.

6.2 Any defect in machinery reported by its operator shall be promptly attended to.

6.3 Any machine found to be in an unsafe operating condition shall be tagged at the operator's position 'OUT OF SERVICE DO NOT USE' and its use shall be prohibited until the unsafe condition has been corrected.

6.4 All repairs to a machine shall be done at a location which will provide a safe place for the persons engaged on repairs.

6.5 Except for testing, trial or adjustment which must necessarily be done while the machine is in motion, every machine shall be shut down and positive means taken to prevent its operation while any repair or manual lubrication is being done.

6.6 Power shall be disconnected when repairs are made to any electric machine.

6.7 Any machinery, equipment or part thereof which is suspended or held apart by use of slings, hoists or jacks shall be substantially blocked or cribbed before men are permitted to work underneath or between such machinery, equipment or part thereof.

6.8 While inflating tyres, suitable protective cages shall be used. Tyres shall in no case be inflated by sitting either in the front of it or on top of the same.

6.9 The crane and overhead crane shall be subjected to proof load test and NDT test once in a year from a competent authority.

6.10 The pressure vessel receiver shall be subjected to hydraulic and NDT test and shall be carried by a competent authority.

6.11 In case of any defect in equipment such as brake, steering and safety device, the equipment shall immediately be taken out from use keeping a record thereof.

7.0 Design, operation and maintenance of shovels, excavators, pay loader & other machineries:

7.1 All the repairs of the machinery or vehicles shall be done at properly laid repairs shed and workshops so as ensure due protection to work persons deployed at those place from the movement of Heavy earth Moving Machinery.

7.2 Every place of drilling and Earth moving machinery or equipment (hereinafter called machine) and every truck, dumper etc. (hereinafter called vehicle), shall be maintained in good and safe working condition.

7.3 (a) Every machinery or vehicle shall be provided with efficient warning devices, adequate front and rear lights and efficient brakes.

(b) Every shovel, excavator and pay-loader shall be so designed as to afford the operator clear and uninterrupted vision all around and shall be provided with portable lamp in emergency, suitable portable fire-extinguishers and retracting ladders.

(c) The operators cabin of Heavy Earth Moving Machinery shall be well designed and substantially build. The cabin of all new machinery and vehicles shall be fitted with air conditioners so as to ensure adequate protection to the operator against heat, dust, noise etc. Efforts shall be made to provide air conditioner in the old non air conditioned machineries and vehicles. The design of machinery and vehicle shall be such as to provide adequate safety to the operator in the event of overturning Heavy Earth Moving Machinery. A seat belt for the safety of the operator shall be provided. Every shovel excavator, pay loader, Dozers, and drills shall be provided with Fire

resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire and fire resistant sleeves and conduits where cable/wire is used;

7.4 The following safety features shall also be provided in with every shovel and excavator in particular-

- (i) All functions cut-off switch;
- (ii) swing motor brake;
- (iii) Vent valve on top of hydraulic tank of such a type which is removable without any tool;
- (iv) a baffle plate between cold zone and hot zone;
- (v) provision for limiting of hydraulic cylinders – stopper.
- (vi) Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire is passed shall be fire resistant.
- (vii) Turbo charge Guard
- (viii) Seat belt.

7.5 All dozers shall also be provided with roll over protection, turbo charge guard, fire resistant hydraulic hoses and wiring near hot zone and seat belt.

7.6 All drills shall also be provided with the following safety features in particular-

- (i) approved type of dust prevention or suppression system including wet drilling arrangement;
- (ii) each moving parts shall be guarded/fenced in effective manner;
- (iii) emergency push button switch in operator's cabin, main frame, propeller pendent and rear end;
- (iv) tripping device to trip the field switch;
- (v) thermostat motor protection relay in winding armature and other related parts;
- (vi) explosive vent in transformer;
- (vii) proper interlock (an electric interlock between drilling and propeller operation);
- (viii) high air discharge temperature switch;
- (ix) low lube oil pressure switch;
- (x) oil stop valve (electric solenoid valve in compressor lubrication line);
- (xi) no bump circuits
- (xii) tower lock and lock check valve
- (xiii) proper joystick - spring loaded type to return to neutral (dead man safety)
- (xiv) disk brake and brake valve and its testing parameters;
- (xv) lock check valve for preventing creeping in drill;

(xvi) seat belt

(xvii) Fire resistant hydraulic hoses and wiring near hot zone Turbo charge guard.

(xviii) Cabin for the operator.

7.7 Every shovel, excavator and pay-loader shall be under the charge of a competent person, authorized in writing by the manager, herein called the 'Operator'.

7.8 All persons employed or to be employed to operate HEMM shall be trained.

7.9 Only such fitters/mechanics possessing driver's/operator's license, shall be allowed to carry out test-run of HEMM.

7.10 No person other than the operator or the manager or any person so authorized in writing by the manager shall ride on a shovel, excavator or pay-loader.

7.11 No person shall be permitted to ride in the bucket of a shovel, excavator or pay-loader.

7.12 Shovel/excavator dippers and pay loader bucket shall be lowered to the ground during greasing operations.

7.13 No shovel, excavator or pay loader shall be operated in a position, where any part of the machine or suspended loads there from are bought closer than 3 m to exposed high voltage transmission lines, unless the current has been cut off from such exposed transmission lines, and positive means have been taken to prevent the lines from being energized. A notice of this requirement shall be posted at the operator's position.

7.14 Electrical cables, if any, shall be laid in such a manner that they are not endangered either by falling rocks or by any mobile equipment.

7.15 When not in use, shovel, excavator and pay-loader shall be moved to and stood on stable ground.

7.16 If more than one stripping machine is in use in any area, either on the same bench or on different benches, the machines shall be so spaced that there is adequate space for safe operation of each equipment, and there is no danger from flying or falling pieces of stones etc. from one machine to the other.

7.17 The safety features recommended in equipment's shall be made a part of the notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

8.0 Duties of shovel, excavator & pay loader operators:

8.1 Before any machine is put into operation, the operator shall look for any placards/tags on the machine like "OUT OF ORDER", "UNDER REPAIRS", etc. and in case such tags are seen anywhere in the entire system, the machine shall not be started.

8.2 At the commencement of his shift, the operator shall personally inspect and test the machine, paying special attention to the following details –

(i) that every warning device is in working order,

(ii) that it is mechanically sound and in efficient working order, and

(iii) that the lighting fixtures are in proper working order, if the machine is required to work beyond day-light hours.

8.3 He shall not take out the machine for work nor shall he work the machine, unless he is satisfied of its safe working order.

8.4 The operator shall maintain a record of every inspection made under clause 8.2 in a bound paged book kept for the purpose, and shall sign every entry made therein.

8.5 The operator shall keep the cab window clean so as to ensure clear vision at all times.

8.6 The walkways in or about the cab of any shovel, excavator and pay-loader shall be kept free of loose tools, grease containers or other materials that might fall or give rise to tripping hazard.

8.7 The operator shall not operate the machine when persons are in such proximity as to be endangered. The danger zone for each loading machine shall be declared by the manager and demarcated distinctly.

8.9 Before leaving the machine, the operator shall lower the bucket to the ground.

8.10 The operator shall not allow any unauthorized person to ride on the machine.

9.0 Design, operation and maintenance of trucks and dumpers:

9.1 Every truck or dumper and other mobile equipment shall be maintained in good and safe working condition and shall be provided with:

A - Tipper/Trucks:

i. Cabin Guard Extension. Canopy shall cover the operator's fully.

ii. Exhaust/Retard Brake: Device to control the speed of truck while operating down the gradient. Refer DGMS (Tech) Circular 02 of 2004.

iii. Propeller Shaft Guard: Propeller shaft guard as specified in DGMS (Tech) circular 10 of 1999.

iv. Tail Gate Protection: Protection of operator against collision either by head on or head to Tail.

v. Limiting speed device: Enable mine management to decide the maximum speed of vehicle to be operated in mine. The device may be Electronic or mechanical type speed governors.

vi. Audio – visual alarm while reversing: The audio – visual alarm provided should conform to DGMS (Tech) Circular No. 01 of 2010.

vii. Provision of Two breaks: One of brakes shall be fail safe. For details refer DGMS Circular 09 of 1999.

viii. Body lifting position locking arrangement: A hooter along with an indication is provided to indicate the body is still in lifted position.

ix. Fire suppression System: Refer DGMS circular 10 of 2004. The fire suppression system shall be a factory fitment and of approved type from Directorate.

x. Blind spot mirror: Operator can have view in blind spot area.

xi. Fire resistant hoses at hot zone: To decrease chance of fire.

xii. Electric Wires and sleeves are to be of fire resistant quality: To decrease chance of fire.

xiii. Turbo Charge Guard and exhaust tube coated with heat insulated paint: To decrease chance of fire.

xiv. Battery Cut off Switch: To decrease chance of fire.

xv. Retro reflective reflectors on all sides: For visibility of truck during night.

- xvi. Seat belt reminder: To alert operator for using the seat belt.
- xvii. Proximity warning device: To alert operator when approaching other vehicles/ obstruction.
- xviii. Rear Vision System: To assist operator during reversing refer DG Circular No. 12 of 2009.
- xix. Auto dipping System: To reduce glaring on eyes of operator during night operations.
- xx. Load Indicator and Recorder: Enables management to detect and prevent over loading.

B - Dumpers:

- i. Mechanical steering locking to prevent untoward movement of steering wheel and tyre while work persons working below the cabin while engine is running.
- ii. Blind spot mirror apart from rear view mirror to enable operator to have clear visibility of blind spot in and around dumpers.
- iii. Mechanical type Anti-collision device to avoid head to tail collision on haul road such as tail gate, bumper extension or any other strong device.
- iv. Fire resistant hydraulic hoses in place of ordinary hoses to decrease the chance of fire. All the sleeves and conducts where cable/wire are passed shall be fire resistant.
- v. Seat belt for operator.
- vi. The maximum speed of vehicle shall be restricted to 30Km/hours by blocking higher gear or any other automatic means.
- vii. Proper shaft guard.
- viii. Proximity working device.

9.2 The operator's cabins of dumpers/tippers/other mobile equipment's shall be well designed, substantially built and air conditioned so as to render adequate protection to the operator against heat, dust, noise etc. A seat belt for the safety of the operator shall also be provided in the dumper/vehicle.

9.3 The audio-visual alarm provided on trucks/dumpers/other mobile equipment shall be of such intensity which is not less than 5 dB(A) above the surrounding noise level.

9.4 Every truck or dumper shall be under the charge of a competent person authorised in writing by the manager herein called the 'driver'.

9.5 All persons employed or to be employed to drive/operate trucks/dumpers/tippers shall be properly trained.

9.6 Only such fitters/mechanics possessing driver's/operator's license, shall be allowed to carry out test-run of trucks/dumpers/tippers.

9.7 No person other than the driver or the manager or any person authorized in writing by the manager shall ride on a truck or dumper.

9.8 No person shall, or shall be permitted to, ride on the board of a running truck or dumper.

9.9 No vehicle shall be loaded/unloaded on gradient.

9.10 As far as possible, loaded trucks or dumpers shall not be reversed on gradients.

9.11 Sufficient stop blocks shall be provided at every tipping point and these shall be used on every occasion, material is dumped.

9.12 Code of Traffic Rules framed by the Manager shall be adopted and followed during movement of all trucks and dumpers. They shall be prominently displayed at relevant places in the opencast workings and on truck/dumpers roads.

9.13 When not in use, every truck or dumper or other wheeled trackless machinery shall be moved to and parked at proper parking place(s) which shall be on level ground and away from working area of other mobile equipment. The truck or dumper or other wheeled trackless machinery shall not be parked at a place where it cannot be observed.

9.14 No person shall, or shall be permitted to, work on the chassis of a truck or dumper, with the body in a raised position unless the truck or dumper body has been securely blocked in position. The hoist mechanism shall not be depended upon to hold the body of the truck or dumper in a raised position.

9.15 Suitable points shall be designated for parking utility vans and other light vehicles in the opencast workings, which in no case shall be less than 30m away from the area where mobile HEMM operates. The light vehicles shall in no case be taken beyond the designated point unless operation of HEMM in the vicinity has been stopped.

9.16 No person other than those authorized shall be permitted to enter or remain in any dumping yard, loading and unloading points and turning points.

9.17 In respect of every truck/dumper or class of truck/dumper, the maximum load to be hauled shall be determined and notified to operators/drivers by the Manager. Speed limits at which such loads can be hauled shall also be determined and fixed by the Manager, depending on the road gradient, direction of movement, road surface etc., and notices/sign boards specifying the same shall be posted along the haul road at appropriate places/sections.

9.18 The safety features recommended in dumpers/trucks/tippers shall be made a part of the notice inviting tender for new procurement and the design and drawing shall be obtained from OEM for fitting the same in old equipment.

10.0 Duties of truck/dumper/tipper operators:

10.1 Before commencing work, the driver shall personally check the dumper/truck/tipper for oil(s), fuel & water levels, tyre inflation, and general cleanliness, and inspect and test the vehicle, paying special attention to the following details:

- (i) that brakes and steering system including emergency steering are in proper working order;
- (ii) that the warning devices including automatically operated audio-visual reversing alarm and rear-view camera are in working order;
- (iii) that rear view mirrors on either side of the vehicle and blind spot mirror is provided;
- (iv) that side indicator lights are in working order; and
- (v) that head lights are in working order, if the vehicle is required to work after day-light hours.

10.2 The driver/operator shall not take out the vehicle for work nor shall he drive the vehicle, unless he is satisfied that it is mechanically sound and in efficient working order.

10.3 He shall wear the seat belt before starting the vehicle and shall also ensure that other person(s), if so authorized to ride in the vehicle, are properly seated and also wear safety belts.

10.4 The driver shall maintain a record of every inspection made under clause 10.1 in a bound paged book kept for the purpose and shall sign every entry made therein.

10.5 The driver shall keep the cab window clean so as to ensure clear vision at all times.

10.6 The driver shall ensure that the gear is in neutral position, and parking brake is on, before stopping the engine.

10.7 The driver shall handle the truck/dumper carefully and keep it under control at all times. He shall negotiate downhill gradients in low gear so that minimum of braking is required.

10.8 He shall not drive too fast, shall avoid distractions and shall drive defensively. He shall not attempt to overtake another vehicle unless he can see clearly area enough ahead to be sure that he can pass it safely without exceeding the speed limit, and that area ahead is free of any road intersection or junction. He shall also sound audible warning signal before overtaking and shall not attempt to pass the other vehicle until he has received a proper audible signal in reply.

10.9 When approaching stripping equipment, the driver of the truck or dumper shall sound the audible warning signal and shall not attempt to pass the stripping equipment until he has received a proper audible signal in reply.

10.10 Before crossing a road or railway line, he shall reduce his speed, look in both directions along the road or railway line and shall proceed across the road or railway line only if it is safe to do so.

10.11 The driver shall not operate the truck or dumper in reverse unless he has a clear view of the area behind the vehicle. He shall give an audible warning signal before reversing a truck or dumper.

10.12 Driver shall be sure of clearance before driving through tunnels, archways, plant structure etc.

10.13 The driver shall not drive 'nose to tail' particularly behind a vehicle with twin rear wheels from which a stone piece wedged between the tyres may fly back into the windscreen of his vehicle.

10.14 He shall sound audible warning while approaching blind corners or any other points where person may walk in front unexpectedly.

10.15 The driver shall see that the vehicle is not overloaded and that material is not loaded in a manner as to project horizontally beyond the sides of the vehicle's body and that any material projecting beyond the front or rear is indicated by the red flag during day and a red light after day-light hours.

10.16 The driver shall not allow any unauthorized person to ride on the vehicle. He shall also not allow more than the authorized number of persons to ride on the vehicle.

11.0 Duties of Mechanics, Fitters or Engineers:

(a) At the commencement of every shift he shall personally inspect and test every machine and vehicle paying special attention to the following details:

(i) That the brakes and the warning devices are in working order;

(ii) If the vehicle or machine is required to work after day light hours that the lights are in working order. He shall not permit the vehicle or machine to be taken out for work not shall he drive the vehicle unless he is satisfied that it is mechanically sound and in efficient working order.

(b) The mechanic shall maintain a record of every inspection in a bound paged book kept for the purpose. Every entry in the book shall be signed and dated by the person making the inspection.

12.0 Duties of manager:

It shall be the duty of the manager:

a) to ensure compliance with the aforesaid precautions.

- b) To determine and specify in respect of every vehicle the maximum load to be hauled and maximum speed of the vehicle and cause notices specifying the same to be posted along the road at appropriate places;
- c) To cause warning notices (drawing attention to any necessary precautions) to be posted along the truck or haulage roads at appropriate places, like level crossing , curve and turning points etc.
- d) To designate the persons authorized to ride on trucks;
- e) To give every truck driver directions in writing with respect to loads, speed, persons authorized to ride on trucks and precautions necessary for safe running.
- f) To countersign entries in books and records to be maintained in pursuance of these precautions;
- g) To take such other precautionary measures as may be necessary to ensure safe operation and maintenance of transport vehicles and for the safe of work persons.

13.0 TESTING OF BRAKES:

13.1 Brakes of every truck, tipper and any other wheeled trackless machine shall be tested at least once in two weeks, in a manner as indicated below:

(a) SERVICE BRAKE TEST : The brake shall be tested as specified by the manufacturer of the vehicle or on a specified gradient and speed when the vehicle is fully loaded. The vehicle should stop within a distance as specified by the OEM when the brake is applied, which shall be obtained from the manufacturer of the vehicle.

(b) PARKING BRAKE TEST : The parking brake shall be capable to hold the vehicle for a period of at least ten minutes when it is fully loaded and placed at the maximum gradient of roadway on which it is permitted to ply.

13.2 A record of every such test carried on every dumper/truck/tipper/other mobile HEMM shall be kept maintained in a bound paged book which shall be signed by the person carrying out the tests and shall be countersigned by the engineer and the manager. In case any defect in braking system is observed in any equipment/HEMM, such equipment/HEMM shall be taken off from operation and record thereof shall be kept maintained.

13.3 All of the above procedure and precautionary measures regarding i.e. testing of brakes including service brake, retard brake, parking brake and steering shall comply the provisions as stipulated in DGMS Technical Circular Nos.36/1972, 03/1981 and 04/2012 i.e. Service brake, Retard brake, parking brake and steering shall be tested with accelerating the engine to 1400 RPM, 1300RPM, 1200 RPM and 1000 RPM respectively.

14. Drilling and blasting of deep holes:

A General:

14.1 Operations connected with Drilling, Charging, Stemming and Blasting of deep holes shall be placed under overall charge of Foreman, holding at least a foreman's certificate of competency granted under the Metalliferous Mines Regulations, 1961.

14.2 Notwithstanding anything contained in the Metalliferous Mines Regulations, 1961, preparation of charges, charging and stemming of holes shall be carried out under the personal supervision of a mine Foreman.

14.3 A proper record for every blast, showing blasting parameters like hole size, spacing, burden, depth of holes, number of holes fired in the round, charge/hole, charge/delay and total charge of explosives fired in the round, with a rough sketch showing the drilling and firing pattern shall be kept maintained in a bound paged register kept for the purpose.

B Drilling of Deep Holes

14.4 The area where drilling is to be done shall be thoroughly cleaned of loose rocks and debris and position of every deep hole to be drilled shall be distinctly marked by the blasting foreman, so as to be readily seen by the drillers. No person shall be permitted to remain within a radius of 20 meters or within 60 m on the same bench where charging of holes with explosives is being carried out.

14.5 No drilling shall be commenced in an area where shots have been fired, until the blaster/ blasting foreman has made a thorough examination of all places, including remaining butts of old deep holes, for unexploded charges that the drill rod may strike.

14.6 Drilling and charging of deep holes shall not be carried out in the same area at the same time.

14.7 Burden and spacing shall be suitably adjusted to ensure proper fragmentation, effective utilization of explosive energy and throw of debris/mineral do not exceed 10.0 m.

15.0 Bulk Transport of explosives:

Where explosives are transported in bulk for deep hole blasting the following precautions shall be taken: -

(1) Transport of explosives from the magazine to the priming station or the site of blasting shall not be done except in wooden or cardboard packing cases. The quantity of explosive transported at one time to the site of blasting shall not exceed the actual quantity required for use in one round of shots. The explosives shall be transported to the site of blasting not more than 90 minutes before the commencement of charging of the holes.

(2)(a) No mechanically propelled vehicle shall be used for the transport of explosives unless it is of a type approved in writing by the Chief Inspector provided that a Jeep or Land Rover may be used for the transport of detonators from magazines to 'priming stations' subject to the following conditions: -

(i) Not more than 200 detonators are transported in a vehicle at a time;

(ii) The detonators are packed suitably in a wooden box; The wooden box containing detonators is placed inside an outer metal case of construction approved by the Chief Inspector; The outer metal case shall be suitably bolted to the floor of the vehicle or otherwise fixed in a wooden frame so that the container does not move about while the vehicle is in motion; and

(iii) No person shall ride on the rear portion of the vehicle.

(b) Every vehicle used for transport of explosive shall be marked or placarded, on both sided and ends, with the word EXPLOSIVE in red letters not less than 25 centimetres high on a white background.

(c) Every mechanically propelled vehicle transporting explosives shall be provided with not less than two fire extinguishers (one of carbon tetrachloride type for petroleum fire and other of carbon dioxide under pressure type for electrical fire) suitably placed for convenient use.

(3)(a) The vehicle used for the transport of explosives shall not be overloaded and in no case shall explosive cases be piled higher than the sides of its body.

(b) Explosives and detonators shall not be transported in the same vehicle at the same time.

(4)(a) No person other than the driver and his helper (not below 18 years of age) shall ride on a mechanically propelled vehicle used for the transport of explosives.

(b) A vehicle loaded with explosives shall not be left unattended.

(c) The engine of a vehicle transporting explosives shall be stopped and the brakes set securely before it is unloaded or left standing.

- (d) A vehicle loaded with explosives shall not be driven at a speed exceeding 25 Km/hr.
- (e) A vehicle loaded with explosives shall not be taken into garage or repair shop and shall not be parked in a congested place.
- (f) A vehicle transporting explosives shall not be refuelled except in emergencies and then only when its engine is stopped and other precautions taken to prevent accidents.
- (g) No trailer shall be attached to a vehicle transporting explosives.

(5)(a) Every vehicle used for the transport of explosives shall be carefully inspected once in every 24 hours by a competent person to ensure that:

- i. Fire extinguishers are filled and in place;
- ii. The electric wiring is well-insulated and firmly secured;
- iii. The chassis, engine and body are clean and free from surplus oil and grease;
- iv. The fuel tank and feed line are not leaking; and
- v. Lights, brakes and steering mechanism are in good working order. (b) All report of every inspection made under sub-clause(a) shall be signed and dated by competent person making the inspection.

(6) All operations connected with the transport of explosives shall be conducted with the personal supervision of a Foreman solely placed in charge of blasting operations at the mine.

(7) The blaster shall personally search every person engaged in the transport and use of explosives and shall satisfy himself that no person so engaged has in his possession any cigarette, 'biri' or other smoking apparatus, or any match or any other apparatus of any kind capable of producing a light, flame or spark.

15.1 Charging of Deep Holes:

- (1) General precautions and rules regarding handling of explosives shall be observed by the blasting crew. Only such minimum number of persons shall be allowed to remain at the charging site as are required during charging operations and firing of shot holes.
- (2) The entire area where charging of explosives is to be done shall be demarcated by suitable flags and effectively guarded to prevent unauthorized entry of persons or plying of other vehicles and shall be kept free from dry vegetation and other combustible material.
- (3) Smoking, naked light or open flames shall not be allowed within 300 m of the area where charging of explosives is being carried on.
- (4) The holes shall be charged (and fired) as soon as possible after the explosive is transported to the site of blasting. All normal precautions for charging(&firing) as laid down in Metalliferous Mines Regulations, 1961 shall be strictly observed.
- (5) Explosive cartridges shall not be slit or deformed. Adequate amount of cap sensitive explosive shall be used with non-cap sensitive explosive charge to ensure complete detonation of the explosive charge.
- (6) Explosives shall be delivered/charged first into the hole farthest from the 'Priming Station', so as to avoid persons walking among piles of explosives and charged holes.
- (7) Not more than one hole shall be in process of being charged on any face at any point of time.

(8) All operations connected with charging, stemming and making connections shall be done while standing on the solid ground that is to stay, on the side of holes away from the quarry face.

(9) The cartridges of explosives shall be lowered carefully into the shot holes, so as to avoid sticking of cartridges in the shot holes, thereby causing air space(s) in the explosive column. After charging such hole with explosives, the length of the uncharged/remaining portion of the hole shall be measured to confirm that the cartridges are in close contact with each other and there is no air gap between the explosive column. In case, the length of uncharged portion of the hole is not as per calculation, thereby indicating the presence of air space, attempt may be made to push down the charge in case of slurry explosives only. The remaining hole shall then be stemmed with moist sand/aggregate of suitable size before blasting the shot holes.

(10) Explosive charge shall not be allowed to sleep over in holes unless express permission in writing to the effect is obtained.

16.0 Precautions during Blasting/Firing:

16.1 Shots shall not be fired except during the hours of day light. All holes charged on any one day shall be fired on the same day.

16.2 Shots shall not be fired in crushed, broken or fractured ground.

16.3 As far as practicable, deep holes shall be fired either between the shifts, or during the rest interval, or at the end of work for the day.

16.4 A distance of 300 meters, herein after be called "Danger Zone" in any direction, from the place of firing. The danger zone shall be distinctly demarcated (by means of red flags or other suitable means) at least 30 minutes before firing of holes.

16.5 Proper and distinct warning by a siren installed for the purpose shall be given within the danger zone, at least 10 minutes before the holes are fired.

16.6 Before the holes are charged, stemmed and fired, the blaster/blasting foreman, with assistance of his assistants, appointed in sufficient number in writing by the manager, shall ensure that all persons have either left the danger zone, or have taken adequate shelter.

16.6.1 In case, part of public road lie within the danger zone, guards shall be posted on either end of the road falling within danger zone and traffic shall be stopped before shot are fired. In the event of any railway line or public road lying within danger zone, No shots shall be fired when there is traffic on railway track or public road.

16.7 During the approach and progress of an electric storm the following precautions shall be taken:

(a) No explosive, particularly detonators shall be handled;

(b) If charging operations have been commenced, the work shall be discontinued until the storm has passed;

(c) If the blast is to be fired electrically all exposed wires shall be coiled up and if possible, placed in the mouth of the holes, or kept covered by something other than a metal plate;

(d) All wires shall be removed from contact with the steel rails of a haulage track so as to prevent the charge being exploded prematurely by a local strike of the lightening.

16.8 After shots have been fired; no person shall enter or be allowed to enter the place, until 30 minutes after firing of the shots. Before allowing any person to enter the area, the in-charge of the blasting operations shall make sure that the area is free from dust, smoke or fumes.

16.9 In case of misfires, precautions as laid down in Regulation 167 of the Metalliferous Mines Regulations, 1961 shall be taken.

16.10 (a) Slurry explosives shall be used in opencast mines in the order of their date of manufacture.

(b) Explosives manufactured earlier than six months shall not be used. In case the shelf life of the explosive is less than 6 months it shall not be used after expiry of the shelf life.

16.11 (a) Slurry explosives when transported in vehicles shall be carried in an Explosive Van approved by the Chief Controller of Explosives.

(b) Explosive vans used for the transport of explosives shall be in safe operating condition and should be driven by competent licensed drivers.

(c) The vans shall be kept in isolated locations while loaded.

(d) Vans shall be well locked except during times of placement and removal of stocks of slurry explosives.

(e) Smoking and open flames shall not be permitted in or near the vans containing slurry/emulsion explosives.

16.12 All detonators and primed cartridges shall be kept in secure receptacles at a safe distance from the detonating fuse and the explosive until actually required for use.

16.13 The cases of slurry explosives shall not be opened unless the holes are ready for charging in every respect.

16.14 The holes shall be charged and fired as soon as possible after the explosive is transported to the site of blasting. All normal precautions for charging and firing as laid down in the Regulations shall be strictly observed.

16.15 The entire operations of transport of the explosive to the site of its use, cutting & slitting of cartridges and charging and blasting shall be placed under the overall charge of a competent person holding Foreman/Mate certificate or such other qualifications as may be approved by the Director-General of Mines Safety and appointed in writing by the Manager for the purpose.

16.16 No secondary blasting shall be done in the mine. Whenever it is required to break big pieces of rocks, rock breaker shall be used.

17.0 FENCING AROUND OPENCAST WORKINGS: The periphery around the limits of opencast workings, and edges of benches of the opencast workings shall be kept fenced in accordance with DGMS Circular No 11 of 1959.

18.0 PRECAUTIONS AGAINST FIRE:

18.1 A code of practice shall be drawn up for dealing with fires at different locations in the opencast mine, and for dealing of fires in heavy earth moving machinery.

18.2 Automatic fire protection system shall be provided and kept maintained in working order on every HEMM used for loading and transportation.

19.0 Precautions against dust:

19.1 Adequate arrangements to suppress dry dust by wetting shall be made, if during any operation of drilling, loading, unloading, crushing, dressing etc., dust is likely to be produced in such quantity (not more than 3mg/m3) as may be injurious to the health of persons, as also on roads and benches where trucks and dumpers operate. Dust surveys shall be done as laid down in Regulation 124 of Metalliferous Mines Regulation, 1961.

19.2 Truck mounted drill machines design for tube well drilling for sources of water shall not be used. Only proper type of Blast Hole Drill Machine, specially designed for mining purpose having wet drilling arrangement, shall be used.

19.3 Adequate arrangements to allay dry dust, by wetting, shall be made on haul roads and Benches where mobile HEMM, trucks and tippers operate.

19.4 All drills shall be provided with wet drilling arrangement or with a device, duly approved by the Chief Inspector of Mines, to prevent atmosphere getting charged with dust, which shall be kept in operation during drilling operations and it shall be maintained in efficient working order. No dry drilling operation shall be carried on.

20.0 Protections of workers against noise & vibration: Suitable steps shall be taken by all appropriate means to reduce the exposure of workers to any excessive noise and vibration. Guidelines given in DGMS (Tech.) Circular No. 18 of 1975 and 5 of 1990 shall be strictly complied with. The persons engaged in operation of drill machines, dozers etc. who are exposed to high noise level shall be provided with ear muff mounted helmets.

21.0 GENERAL LIGHTING, PROTECTIVE EQUIPMENT, DUST, NOISE ETC.

21.1 General Lighting: Where natural lighting is insufficient, adequate general lighting as per the standards laid down in Notification No. GSR-618(E), dated 28th April, 2017, published in the Gazette of India dated 21st June, 2017, Part II Section 3(i). [reproduced in No. DGMS (Legis.) Circular No. 03 of 2017 Dhanbad, dated], issued under Regulation 148(2) shall be provided during working hours in the opencast workings and along roads, etc. For proper inspection of the high sides and benches of the opencast workings at night, suitable search lights shall be provided.

22.0 Protective equipment:

(a) Every person working in the mine shall be provided with, and shall use, a helmet, protective, Footwear, fluorescent jacket, dust masks, goggles and ear plugs/earmuffs of a type approved by the Chief Inspector of Mines.

(b) Every person permitted to work on height or at any place having inclination of 45 degrees or more, from where he is likely to slip or overbalance, shall be provided with, and shall use, a full body harness of a type possessing valid BIS license and approved by the Chief Inspector of Mines.

23.0 Code of safe work practices:

23.1 A suitable 'Code of Traffic Rules & Safe Work Procedures' for regulating the movement of Heavy Earth Moving Machinery, trucks, tippers and other wheeled trackless machinery (commensurate with the capacity/size type of machines used in the mine) shall be framed and enforced immediately. Such Code of Traffic Rules should be deliberated and approved by Tri-partite Committee. A copy of traffic rules, in a language understood by them, shall be made over to all concerned, i.e., to drivers and operators of HEMM/trucks/tippers (including those belonging to contractors), supervisors and mine officials, and to such other persons who monitor/control movement of HEMM.

23.2 A suitable 'Code of Practice' for prevention of injuries to persons engaged in tipping on stock piles, tipping at crusher, dumping of overburden at dump yards, at loading and unloading points etc. (commensurate with the capacity/size type of machines used in the mine) shall be framed and enforced immediately. Such Code of Practice should be deliberated and approved by Tri-partite Committee. A copy of the code of practice, in a language understood by them, shall be made over to all concerned, i.e., to dump-men, drivers and operators of HEMM/trucks/tippers (including those belonging to contractors), supervisors and mine officials, and to such other persons who monitor/control dumping/tipping operations.

23.3 A suitable "Code of Practice" for dealing with fires/spontaneous heating at different locations, machineries, vehicles, etc. shall be framed and enforced immediately. Arrangements for fire-fighting shall be provided on all HEMM. Such arrangements shall, if possible, operate automatically on appearance of fire or occurrence of spontaneous heating. The automatic fire fighting arrangement shall be provided with optical, thermal or any other suitable fire sensing devices suitably located to sense any rise in temperature beyond a predetermined limit or fire and automatically actuate the fire suppressant from a container(s) to such fire hazard areas of the machine through fixed plumbing network and nozzles. NOTE: Above "Codes" shall be constantly and prominently displayed at every relevant place including in the opencast workings, workshops, truck-dumper roads, spoil/coal-heaps, material yards, etc.

24.0 Miscellaneous:

24.1 (a) Trucks, tippers and other heavy vehicles, not belonging to management shall not be allowed in the mine premises without a valid pass issued by the competent authority of the mine. Before the pass is issued the mine engineer/competent person shall check the roadworthiness of such vehicle. In order to check the entry of such vehicle in the mine premises, properly manned check gate shall be provided at the mine entrance where the record of entry & exit of each vehicle shall be maintained. At the check gate the license of the drivers shall also be checked for eliminating the possibility of unlicensed persons driving the vehicle.

(b)(i) Persons engaged in surface operation and in particular, the Contractor's workers shall be provided closer and competent supervision.

(ii) All persons engaged at any work within the mine premises through the contractors shall be provided relevant training and other job-related briefings and that the drivers of the vehicle belonging to contractors entering the mine premises have additionally been explained the salient provisions of "Traffic Rules".

(iii) Each and every operation, including the operation carried out through contractor's worker or by outside agency, shall be placed under the charge of a competent supervisor, duly appointed and authorized by the manager.

24.2 Separate stock yards shall be maintained for dumping and dispatch of minerals and it shall be ensured that dispatch of minerals is not carried out from the stock yard where dumping is under progress.

24.3 All contractor workers shall be vocationally trained as per the provisions of Mines Vocational Training Rules, 1966, before deploying in opencast working and shall be duly authorized by the manager as competent persons.

24.4 The driving license and V.T. Certificate of all the operators of the transporting machinery deployed in the mine shall remain in the safe custody of the Manager (against receipt) and the operators may carry the photocopy with them whilst on duty.

24.5 The attendance of the operators of tippers/trucks shall be recorded every time they enter the mine boundary.

24.6 Hours and limitation of employment of contractor's employee shall be as prescribed in Section 28 to 35 of the Mines Act, 1952 in respect of above ground and opencast workings and shall be strictly complied with.

Your Faithfully



ASHOK KUMAR (DIRECTOR - JABALPUR REGION)

Annexure 4: Photos of Baghia School boundary





Event Report

Date/Time: Vert at 12:40:16 January 24, 2025
 Trigger Source: Geo: 0.510 mm/s
 Range: Geo : 31.7 mm/s
 Record Time: 2.0 sec at 1024 sps
 Job Number: 2
 Notes:
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Microphone: Linear Weighting
 PSPL: <0.500 pa.(L) at -0.001 sec
 ZC Freq: N/A
 Channel Test: Passed (Freq = 20.1 Hz Amp = 466 mv)

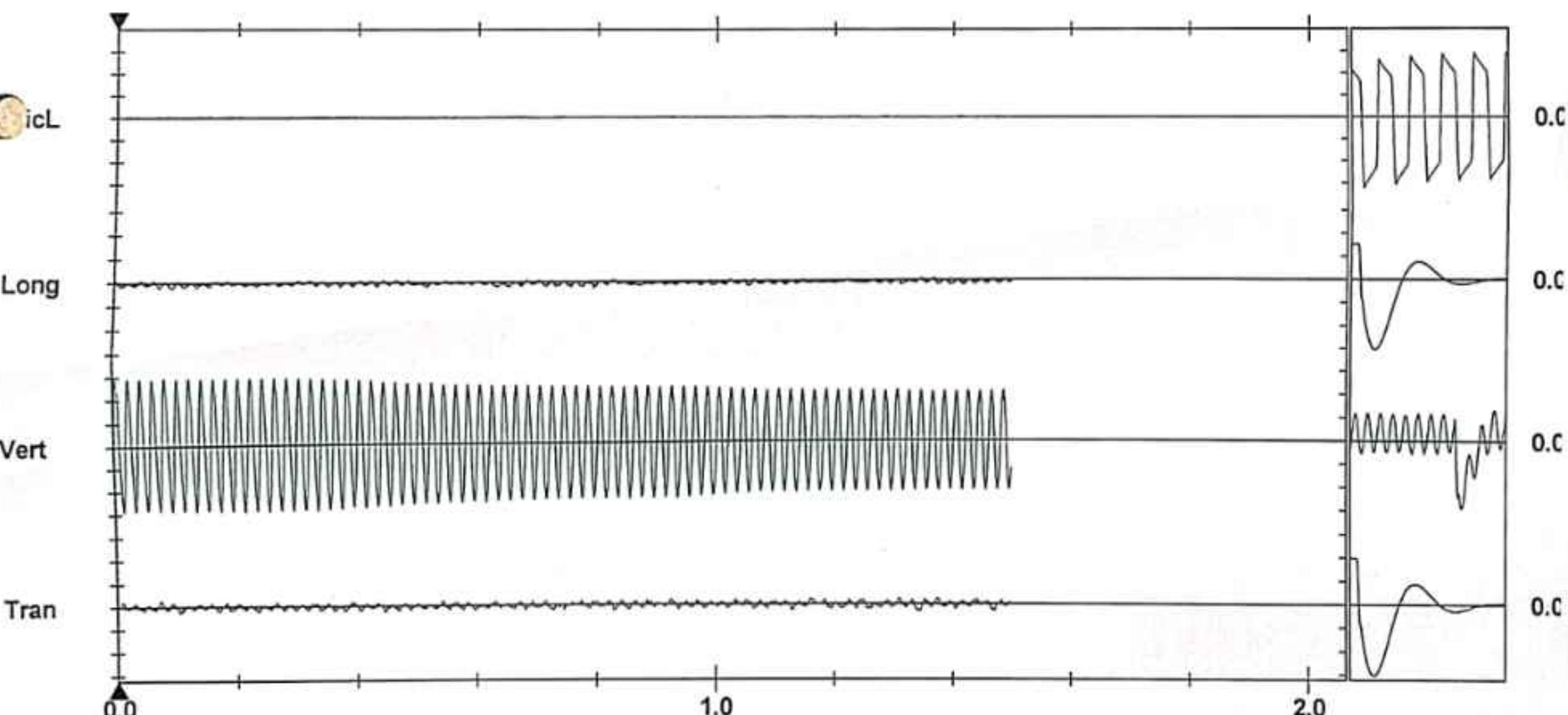
	Tran	Vert	Long	
PPV	0.159	1.46	0.127	mm/s
ZC Freq	37	51	39	Hz
Time (Rel. to Trig)	1.343	0.004	0.794	sec
Peak Acceleration	0.00663	0.0497	0.00829	g
Peak Displacement	0.00074	0.00453	0.00067	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	37.9	7.5	Hz
Overswing Ratio	3.4	2.1	4.0	

Peak Vector Sum: 1.46 mm/s at 0.084 sec

N/A: Not Applicable

Monitor Log

Jan 24 /25 12:40:16 Jan 24 /25 12:40:18 Event recorded. (Keyboard Exit)



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div
 Trigger = ►►

Sensor Check

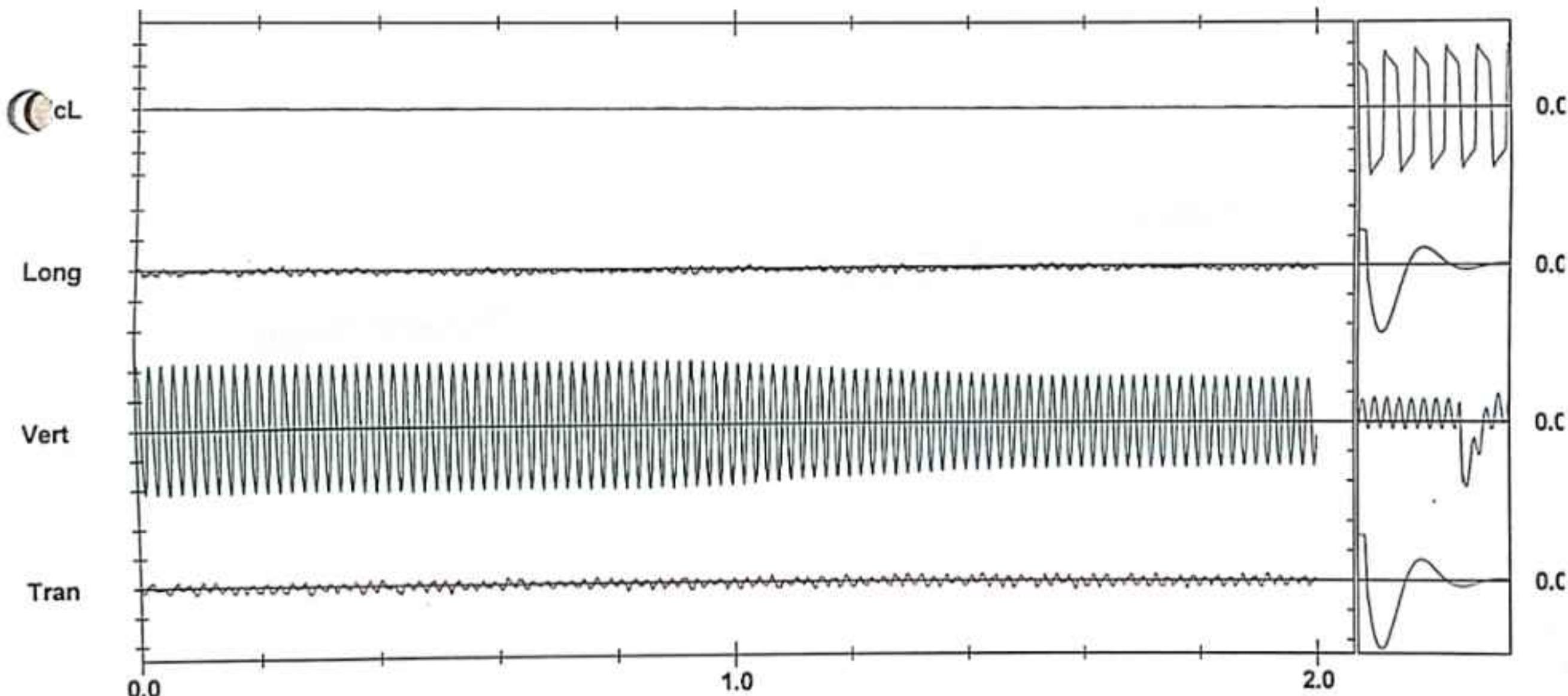
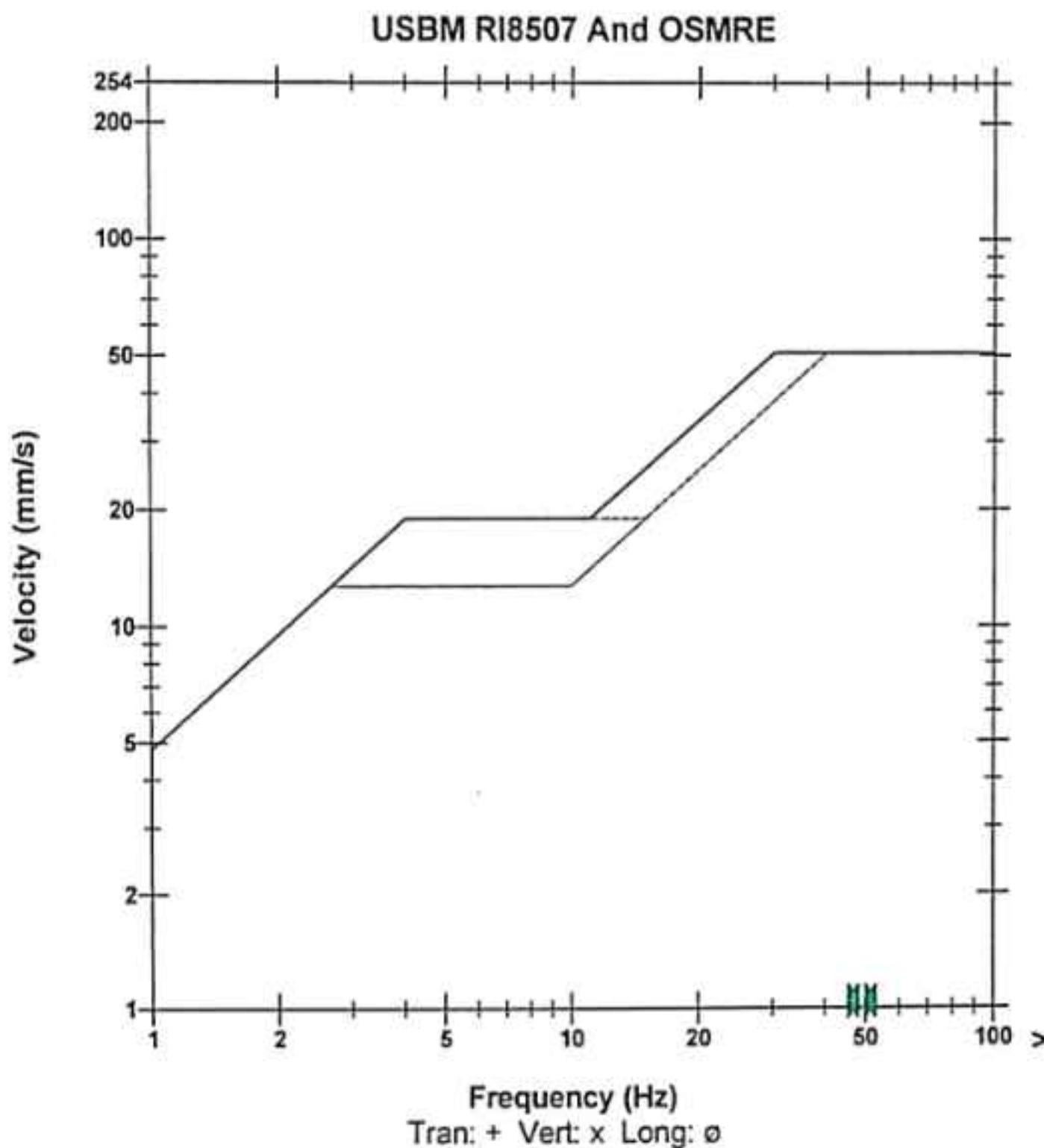
Date/Time Vert at 13:03:34 February 14, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo : 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghali Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF
 HOLE=37 NOS, CHARGE/HOLE=38.51
 KG, CHARGE/DELAY=38.51 KG

Microphone Linear Weighting
 PSPL <0.500 pa.(L) at 0.000 sec
 ZC Freq N/A
 Channel Test Passed (Freq = 20.1 Hz Amp = 478 mv)

	Tran	Vert	Long	
PPV	0.159	1.11	0.111	mm/s
ZC Freq	47	47	43	Hz
Time (Rel. to Trig)	1.585	0.063	1.273	sec
Peak Acceleration	0.00829	0.0381	0.00663	g
Peak Displacement	0.00064	0.00350	0.00052	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.8	35.3	7.4	Hz
Overswing Ratio	3.3	3.0	3.9	

Peak Vector Sum 1.12 mm/s at 0.063 sec
 N/A: Not Applicable



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

Date/Time Vert at 14:43:05 March 27, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo: 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghali Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300, NO OF HOLE =38 NOS, CHARGE/HOLE =24.34KG, CHARGE/DELAY=24.34 KG,

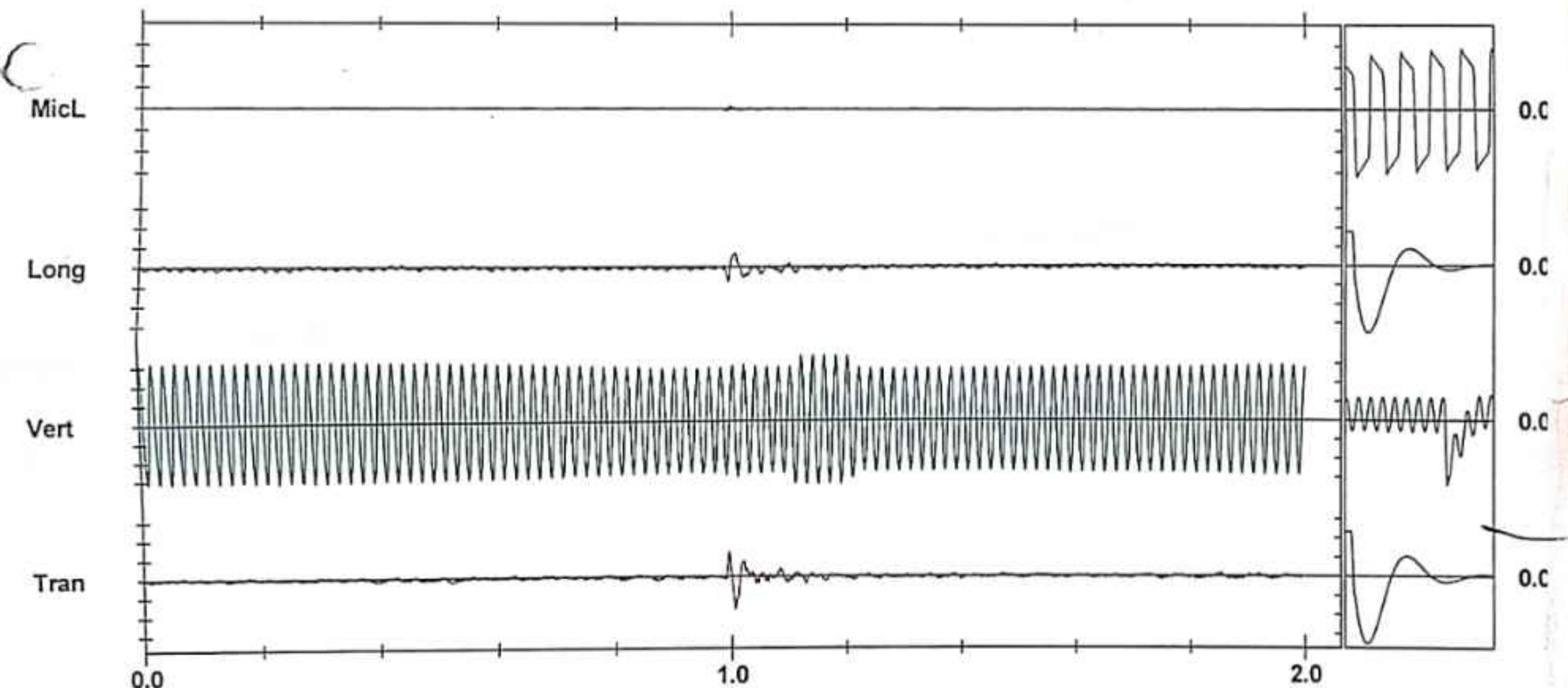
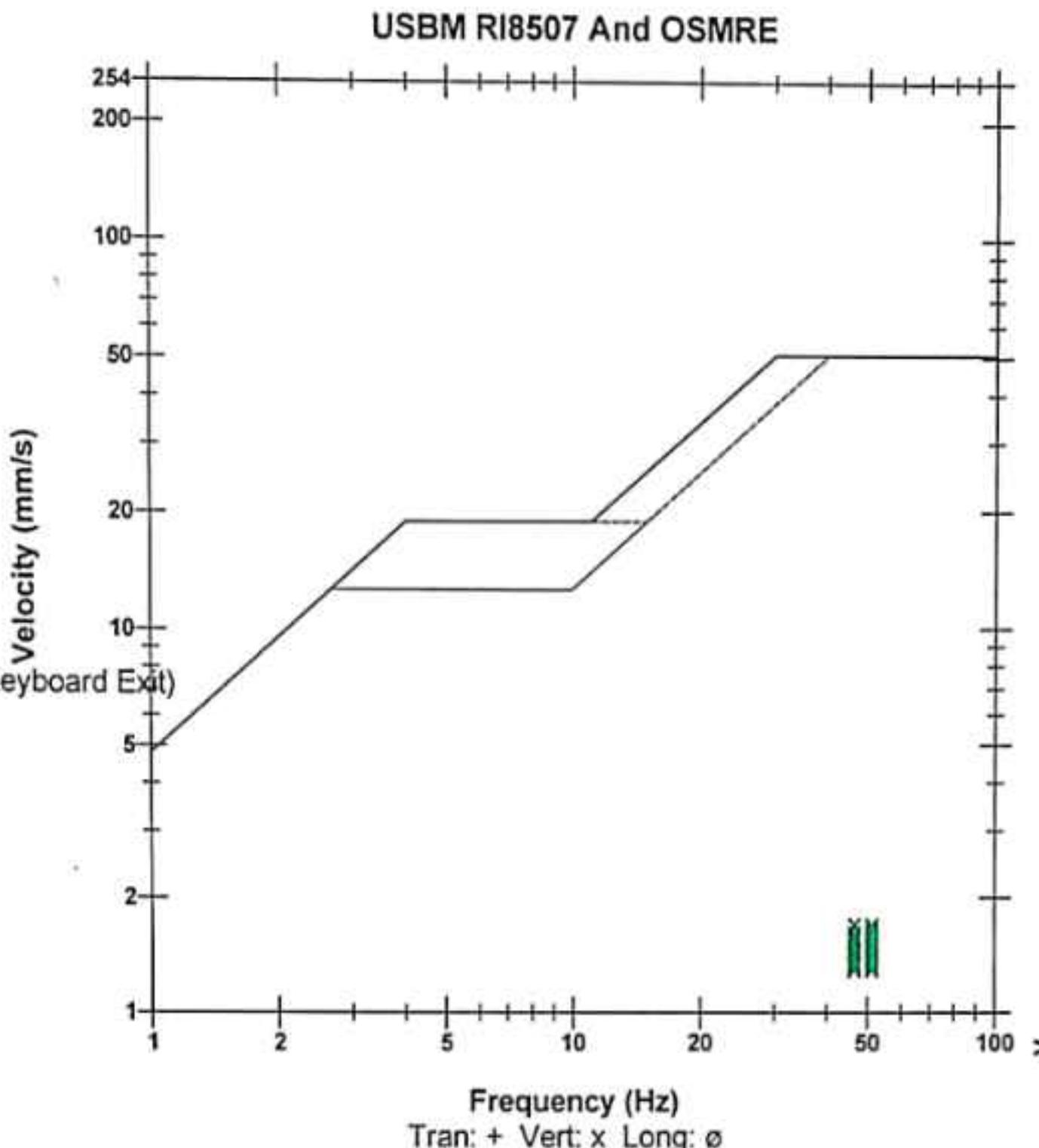
Microphone Linear Weighting
 PSPL 1.25 pa.(L) at 0.997 sec
 ZC Freq 47 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 488 mv)

PPV	Tran	Vert	Long	
	0.841	1.71	0.365	mm/s
ZC Freq	37	47	37	Hz
Time (Rel. to Trig)	1.008	1.120	0.994	sec
Peak Acceleration	0.0232	0.0613	0.0166	g
Peak Displacement	0.00340	0.00540	0.00172	mm
Peak Vector Check	Passed	Check	Passed	
Frequency	7.7	60.2	7.5	Hz
Overswing Ratio	3.4	0.5	4.0	

Peak Vector Sum 1.72 mm/s at 1.160 sec

Monitor Log

Mar 27 /25 14:43:05 Mar 27 /25 14:43:07 Event recorded. (Keyboard Exit)



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

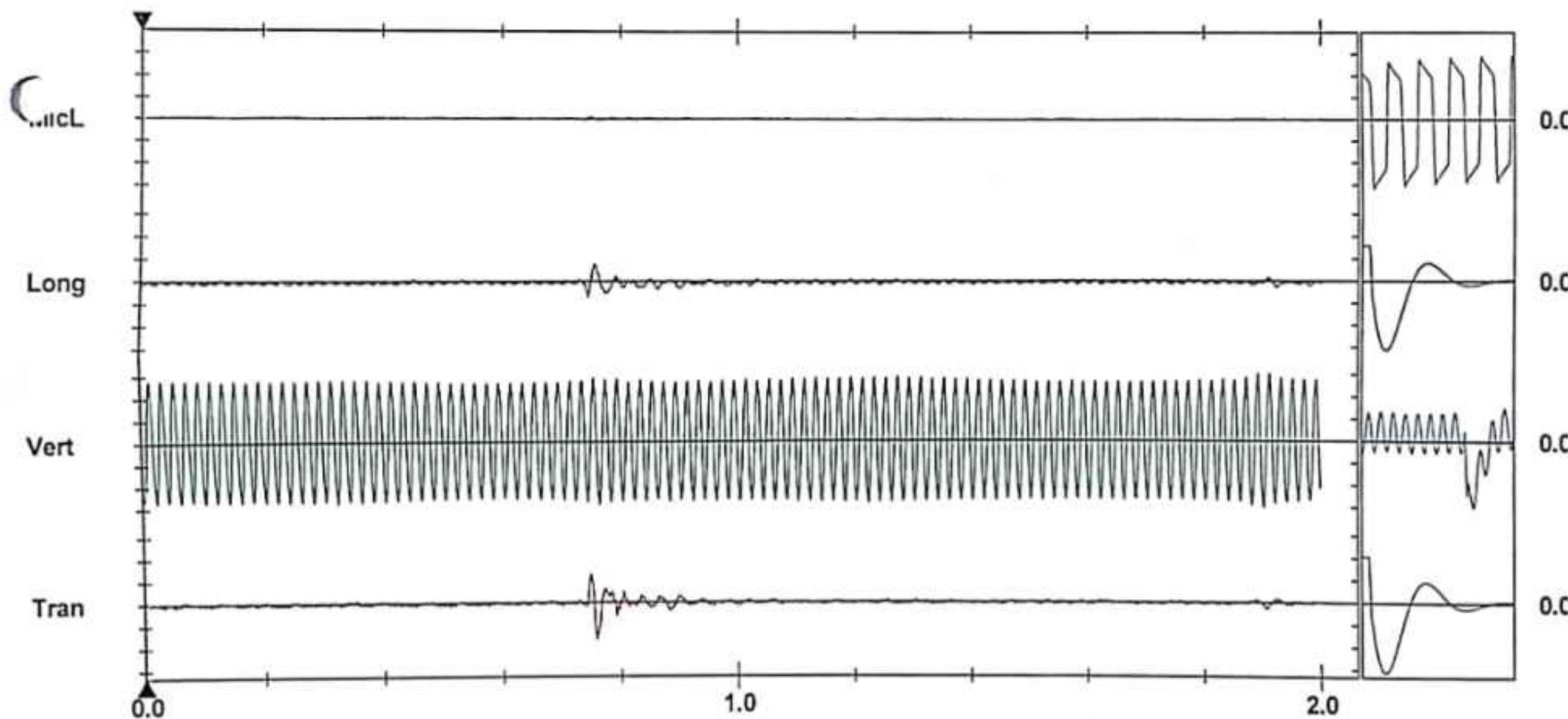
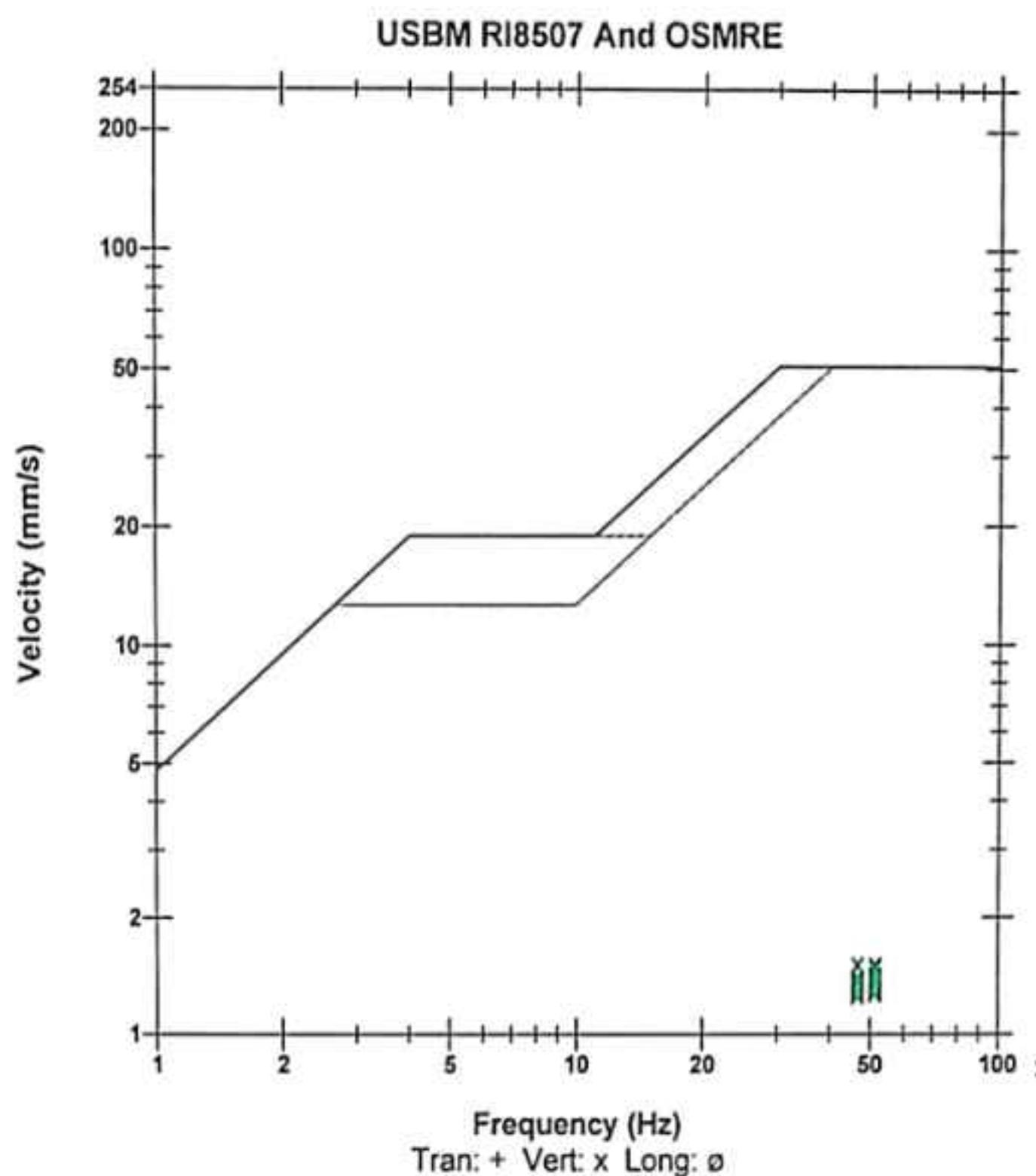
Date/Time Vert at 12:57:41 April 11, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo : 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghal Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scalded Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF
 HOLE=80 NOS, CHARGE/HOLE=9.09 KG, CHARGE/DELAY=9.09
 KG

Microphone Linear Weighting
 PSPL 1.00 pa.(L) at 0.748 sec
 ZC Freq 64 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 482 mv)

	Tran	Vert	Long	
PPV	0.825	1.52	0.381	mm/s
ZC Freq	39	47	34	Hz
Time (Rel. to Trig)	0.758	1.892	0.756	sec
Peak Acceleration	0.0249	0.0530	0.0133	g
Peak Displacement	0.00336	0.00483	0.00186	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.9	37.9	7.4	Hz
Overswing Ratio	3.4	2.5	3.9	

Peak Vector Sum 1.53 mm/s at 1.912 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div
 Trigger = ►-----►

Sensor Check

Date/Time Vert at 13:21:53 May 21, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo: 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

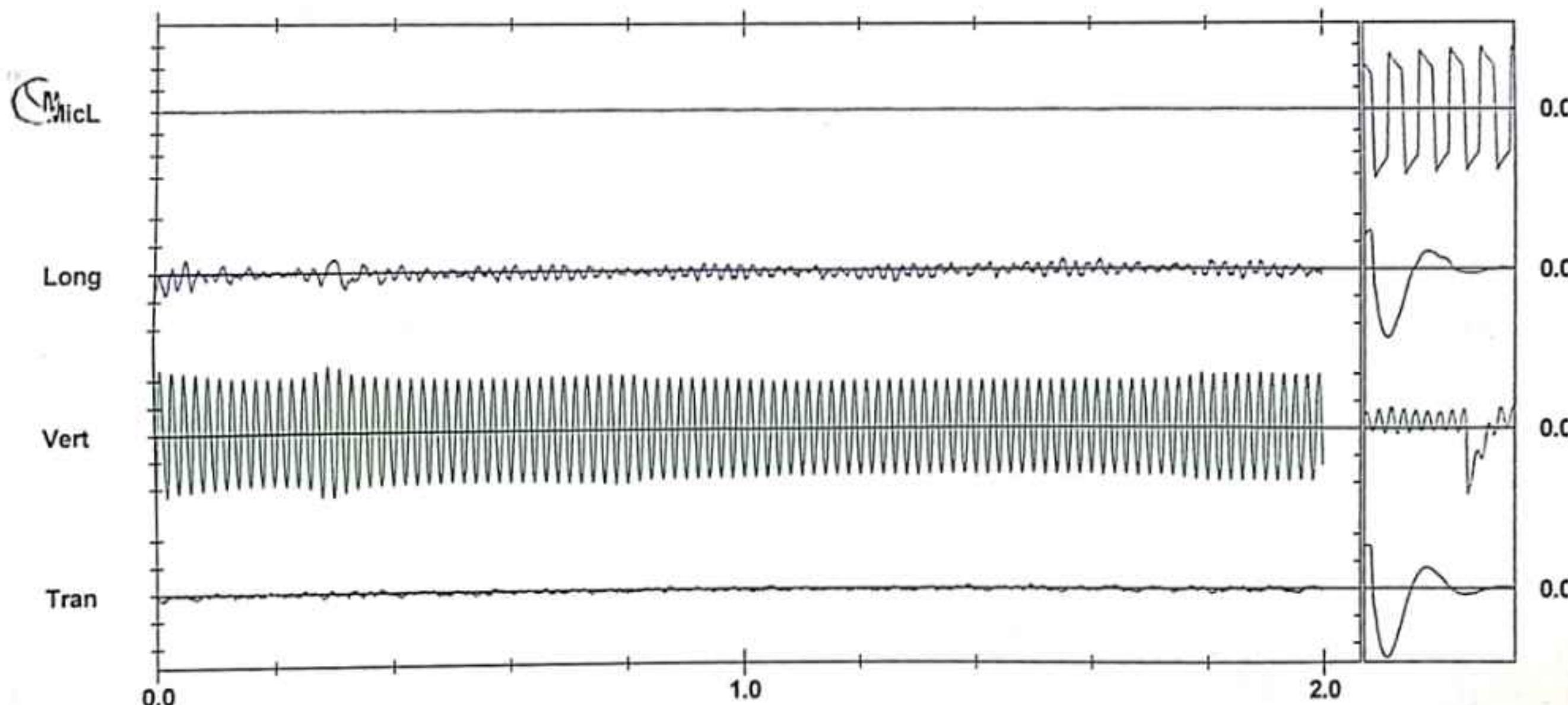
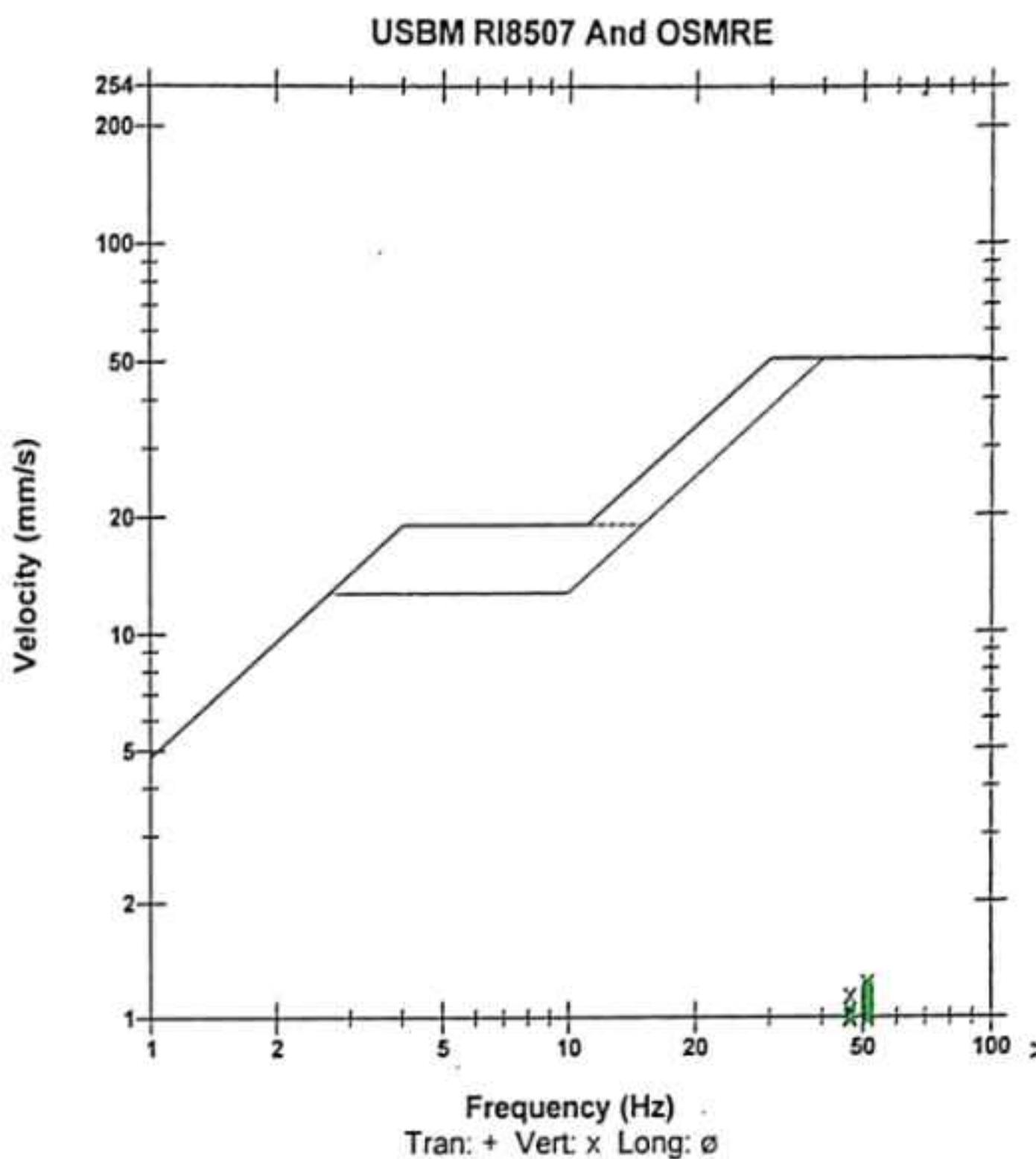
Microphone Linear Weighting
 PSPL 0.500 pa.(L) at 1.534 sec
 ZC Freq >100 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 516 mv)

	Tran	Vert	Long	
PPV	0.127	1.24	0.381	mm/s
ZC Freq	N/A	51	19	Hz
Time (Rel. to Trig)	0.011	0.290	0.017	sec
Peak Acceleration	0.00663	0.0414	0.0116	g
Peak Displacement	0.00092	0.00390	0.00260	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.8	78.8	7.4	Hz
Overswing Ratio	3.3	0.2	4.0	

Peak Vector Sum 1.24 mm/s at 0.290 sec

N/A: Not Applicable

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF HOLE=15 NOS, CHARGE/HOLE=51.60 KG, DELAY/HOLE=51.60 KG



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

Date/Time Manual at 13:45:46 June 7, 2025
Range Geo: 254.0 mm/s
Record Time 5.0 sec at 2048 sps

Serial Number BE15438 V 10.72-1.1 Minimate Blaster
Battery Level 6.6 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name Q438L3NC.WA0
Post Event Notes
 BAGHAI LIMESTONE MINES
 OBSERVATION DIST = 300 MTR, NO OF HOLES 25,
 CH./HOLE&DELAY 33.00 KGS.

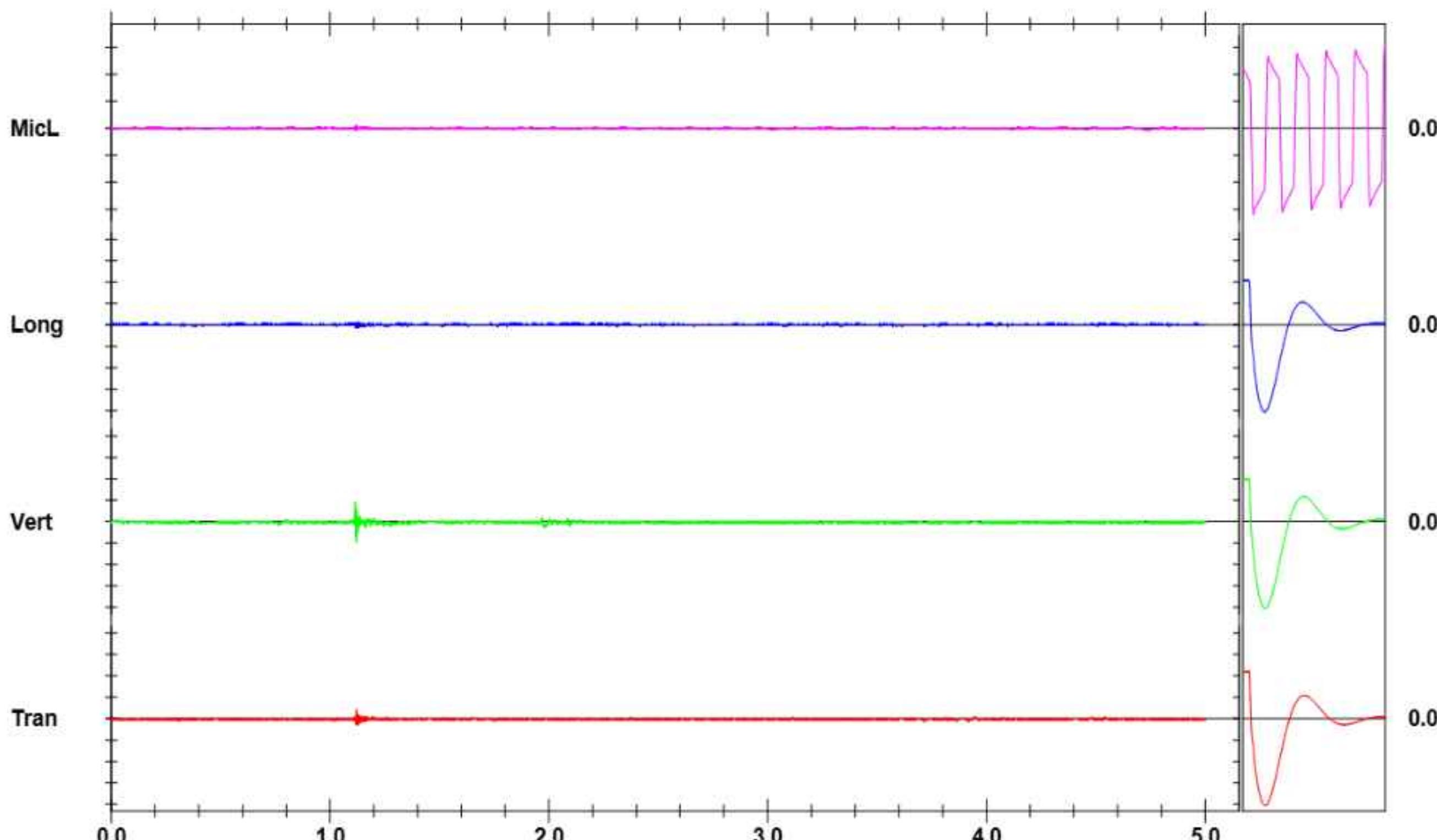
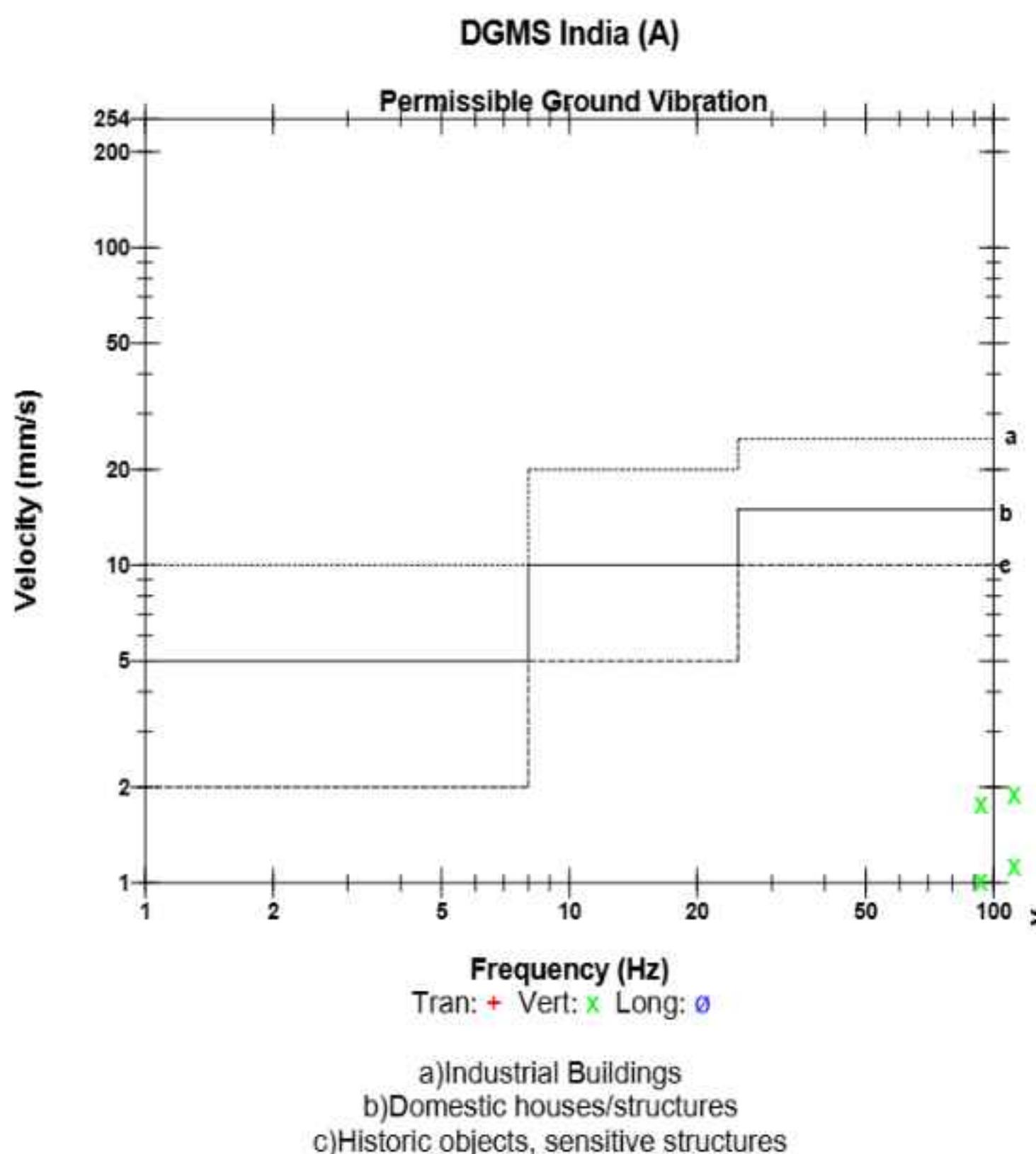
Notes

Extended Notes

Microphone Linear Weighting
PSPL 93.98 dB(L) at 1.120 sec
ZC Freq >200 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.762	1.905	0.254	mm/s
PPV	48.64	56.60	39.10	dB
ZC Freq	171	102	>200	Hz
Time (Rel. to Trig)	1.120	1.120	1.116	sec
Peak Acceleration	0.080	0.186	0.053	g
Peak Displacement	0.001	0.004	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.7	Hz
Overswing Ratio	3.8	3.5	3.9	

Peak Vector Sum 2.067 mm/s at 1.120 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div

Sensor Check

Date/Time Tran at 14:03:42 July 24, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 2.750 pa.(L) at -0.005 sec
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 493 mv)

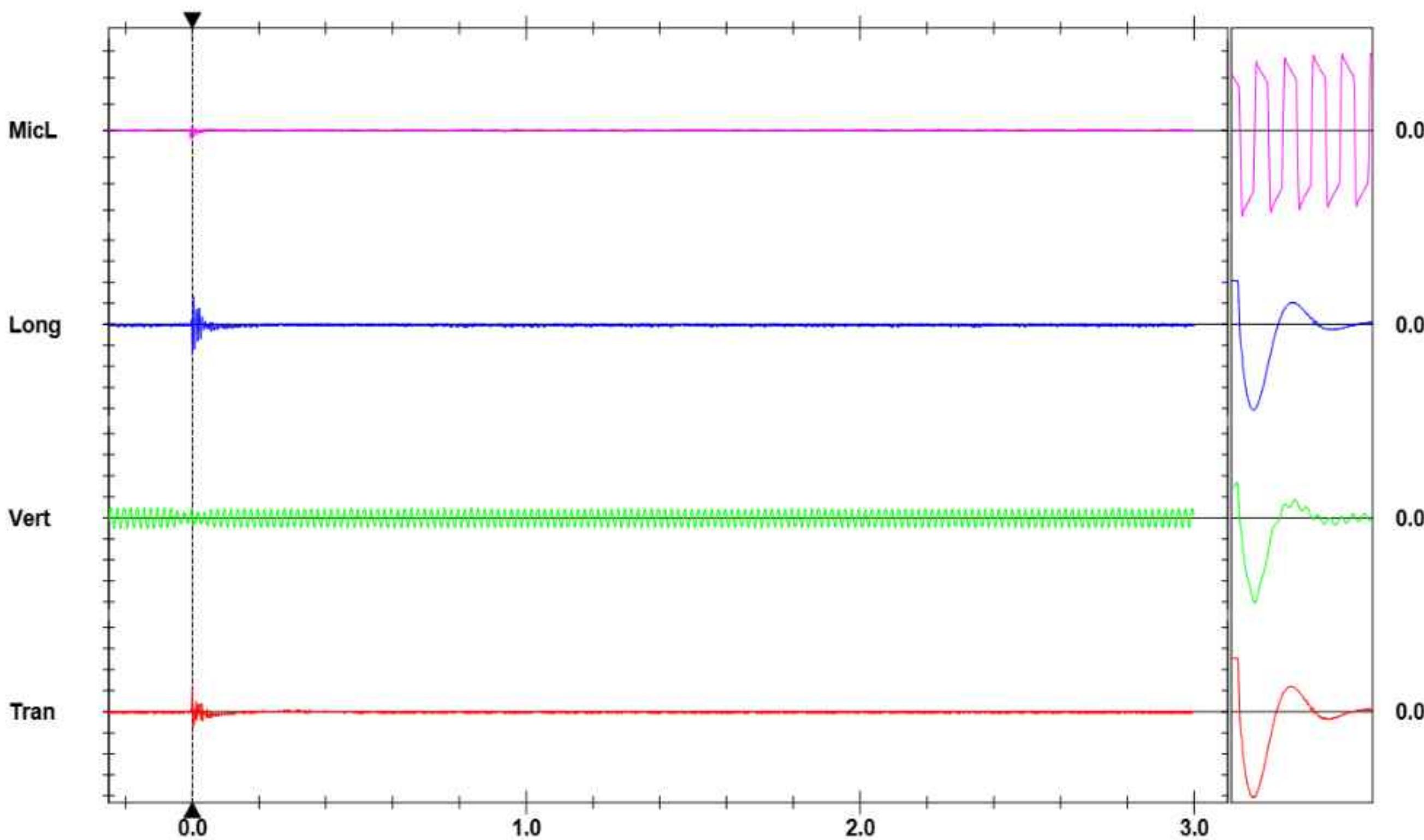
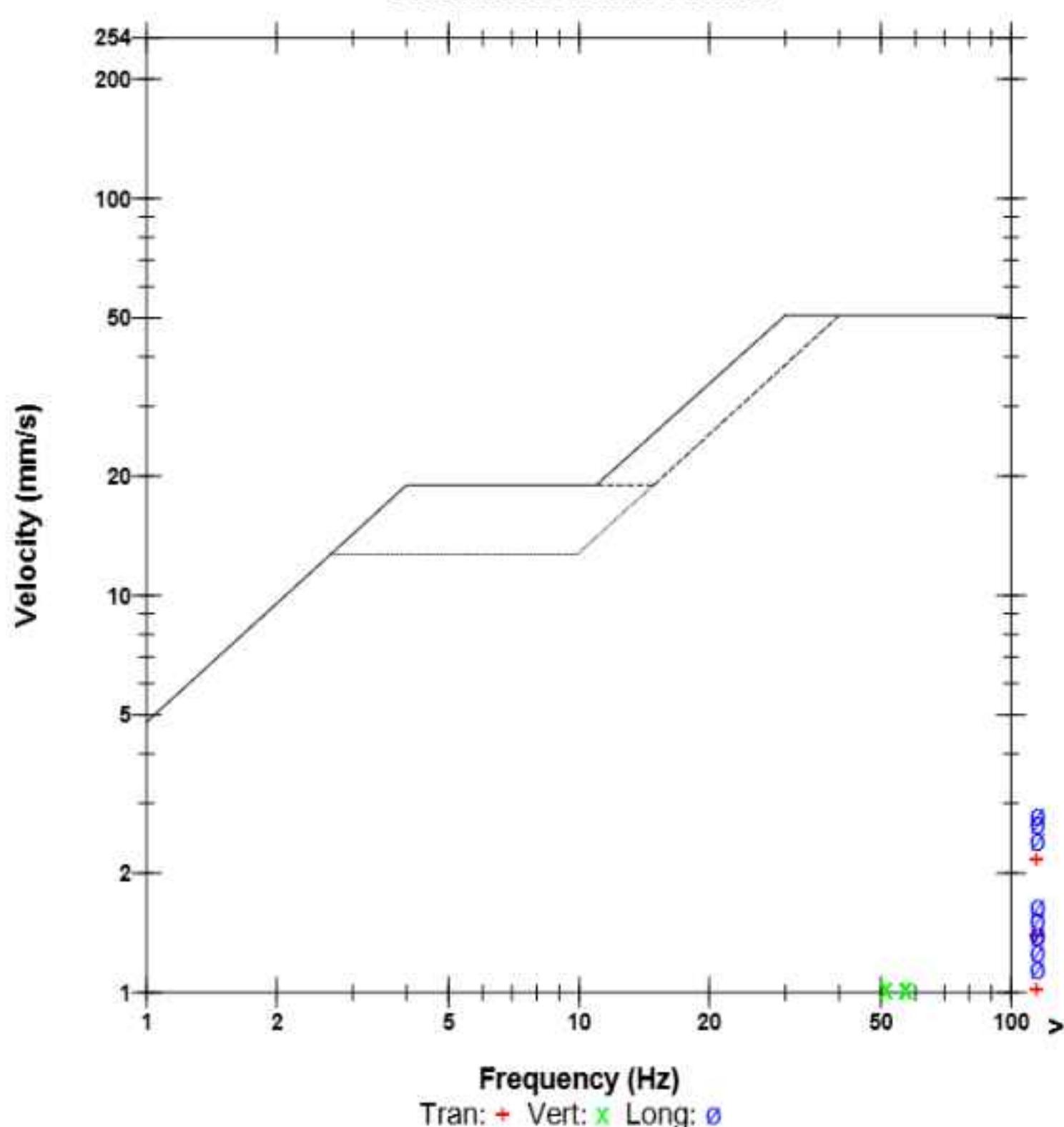
	Tran	Vert	Long	
PPV	2.159	1.016	2.794	mm/s
ZC Freq	>100	57	>100	Hz
Time (Rel. to Trig)	0.000	-0.234	0.000	sec
Peak Acceleration	0.186	0.066	0.239	g
Peak Displacement	0.006	0.003	0.003	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	7.2	7.4	Hz
Overswing Ratio	3.4	4.8	4.0	

Peak Vector Sum 3.540 mm/s at 0.000 sec

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.7 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L62F.260

Post Event Notes
 BGH/B9/ART/1ST Bench/LST,
 Nos. of Holes 26, Avg. Depth 9.89 Mtrs.,
 Avg. Ch./delay 51.9 Kgs.,
 Observation Dist. 300 Mtrs.

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger = ►—————◀

Sensor Check

Date/Time Vert at 14:48:07 August 7, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 1.000 pa.(L) at 0.007 sec
ZC Freq 51 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 547 mv)

	Tran	Vert	Long	
PPV	0.889	4.191	1.016	mm/s
ZC Freq	73	57	>100	Hz
Time (Rel. to Trig)	0.006	0.001	0.003	sec
Peak Acceleration	0.053	0.424	0.093	g
Peak Displacement	0.002	0.007	0.002	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.4	Hz
Overswing Ratio	3.5	3.6	3.9	

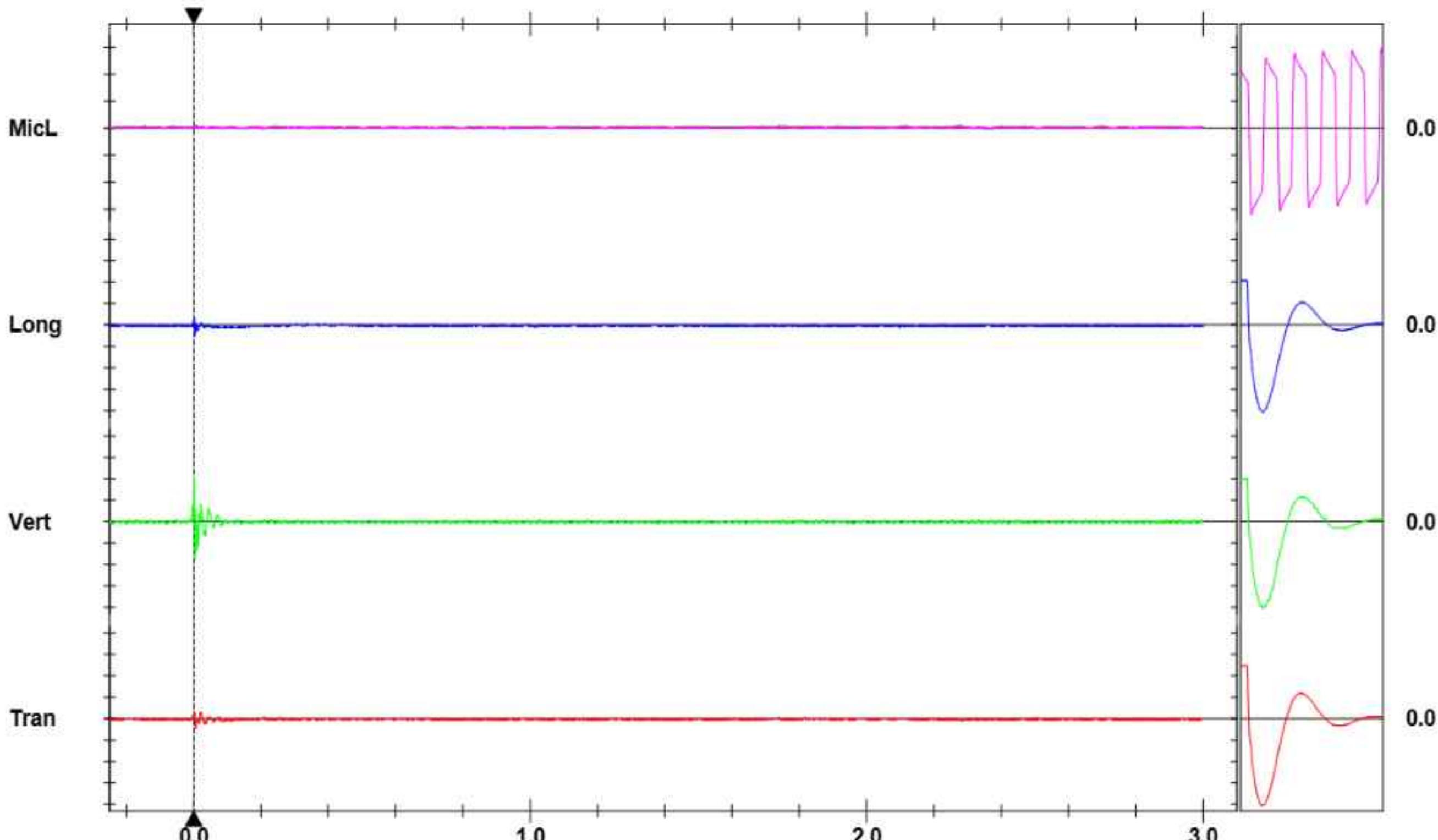
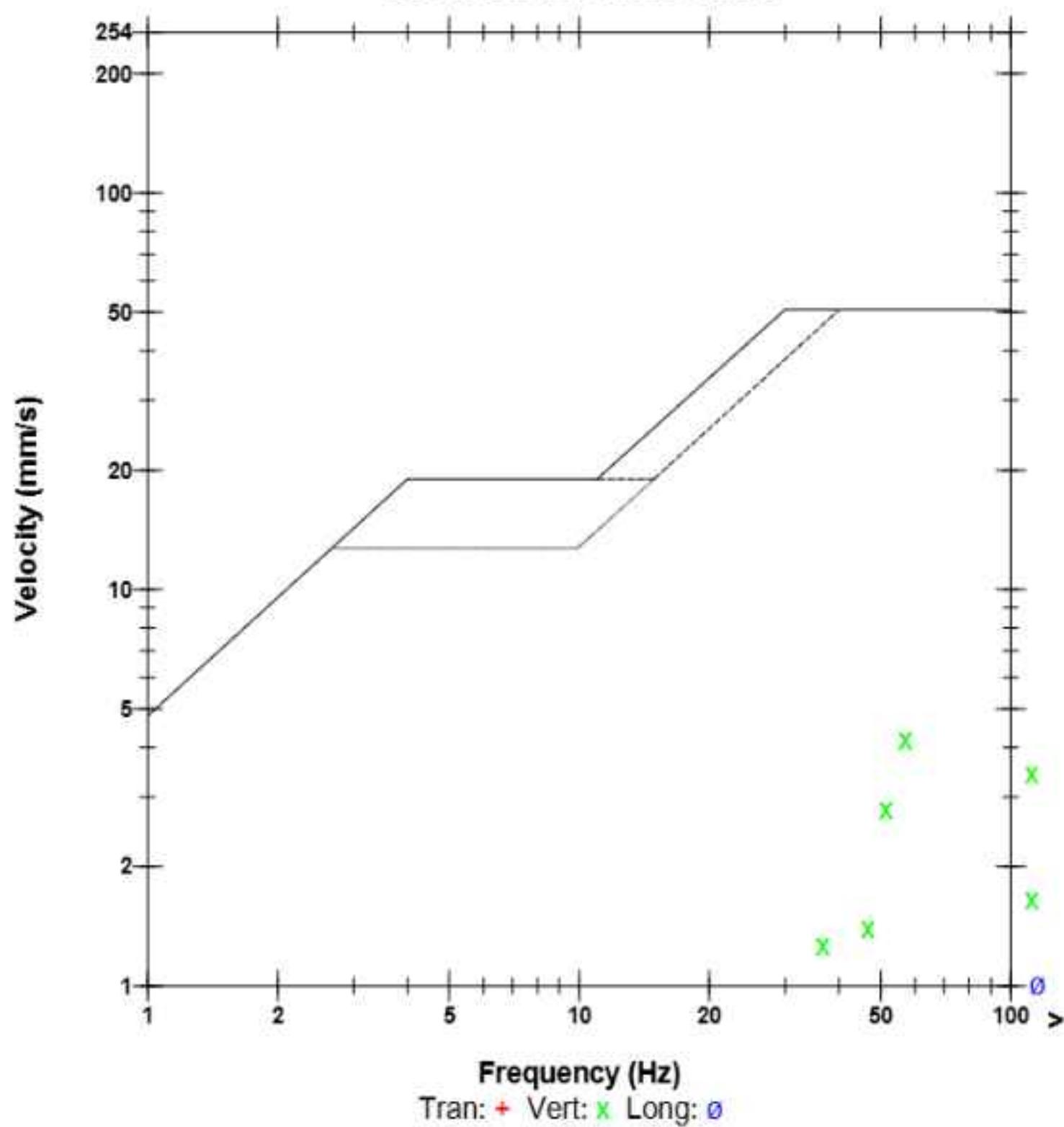
Peak Vector Sum 4.246 mm/s at 0.001 sec

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.2 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L6SE.G70

Post Event Notes

BGH/B9/ART/1ST Bench/LS,
 Nos. of Holes 21, Avg. Depth 9.56 Mtrs.,
 Avg. Ch./delay 50.0 Kgs.,
 Observation Dist. 250 Mtrs

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger = ►—————◀

Sensor Check

Date/Time Long at 13:54:51 September 16, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 3.250 pa.(L) at 0.000 sec
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 566 mv)

	Tran	Vert	Long	
PPV	1.016	1.397	2.286	mm/s
ZC Freq	>100	51	57	Hz
Time (Rel. to Trig)	-0.010	-0.011	0.001	sec
Peak Acceleration	0.080	0.053	0.133	g
Peak Displacement	0.001	0.004	0.007	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	9.8	7.5	Hz
Overswing Ratio	3.3	23.0	4.0	

Peak Vector Sum 2.553 mm/s at 0.001 sec

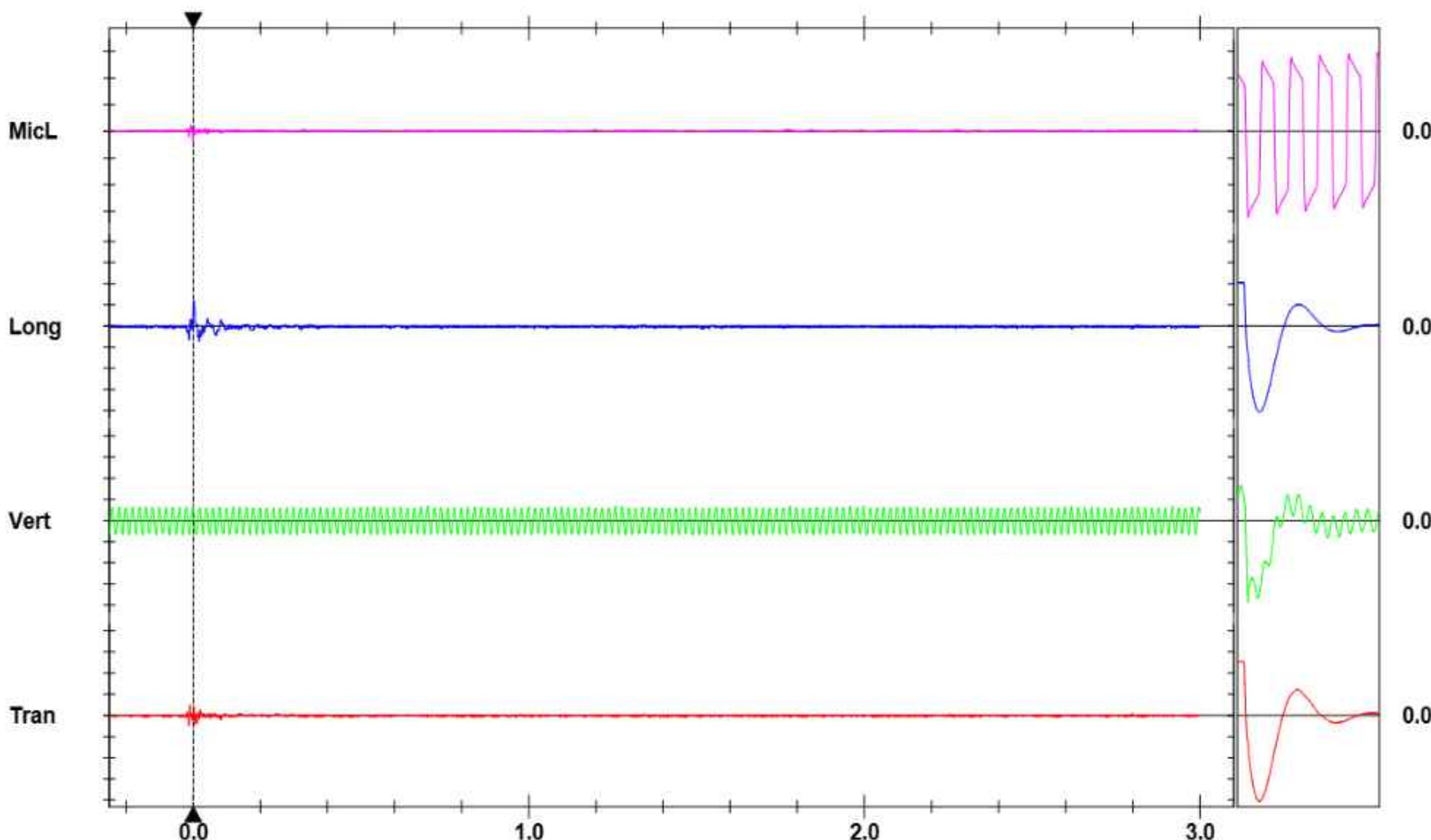
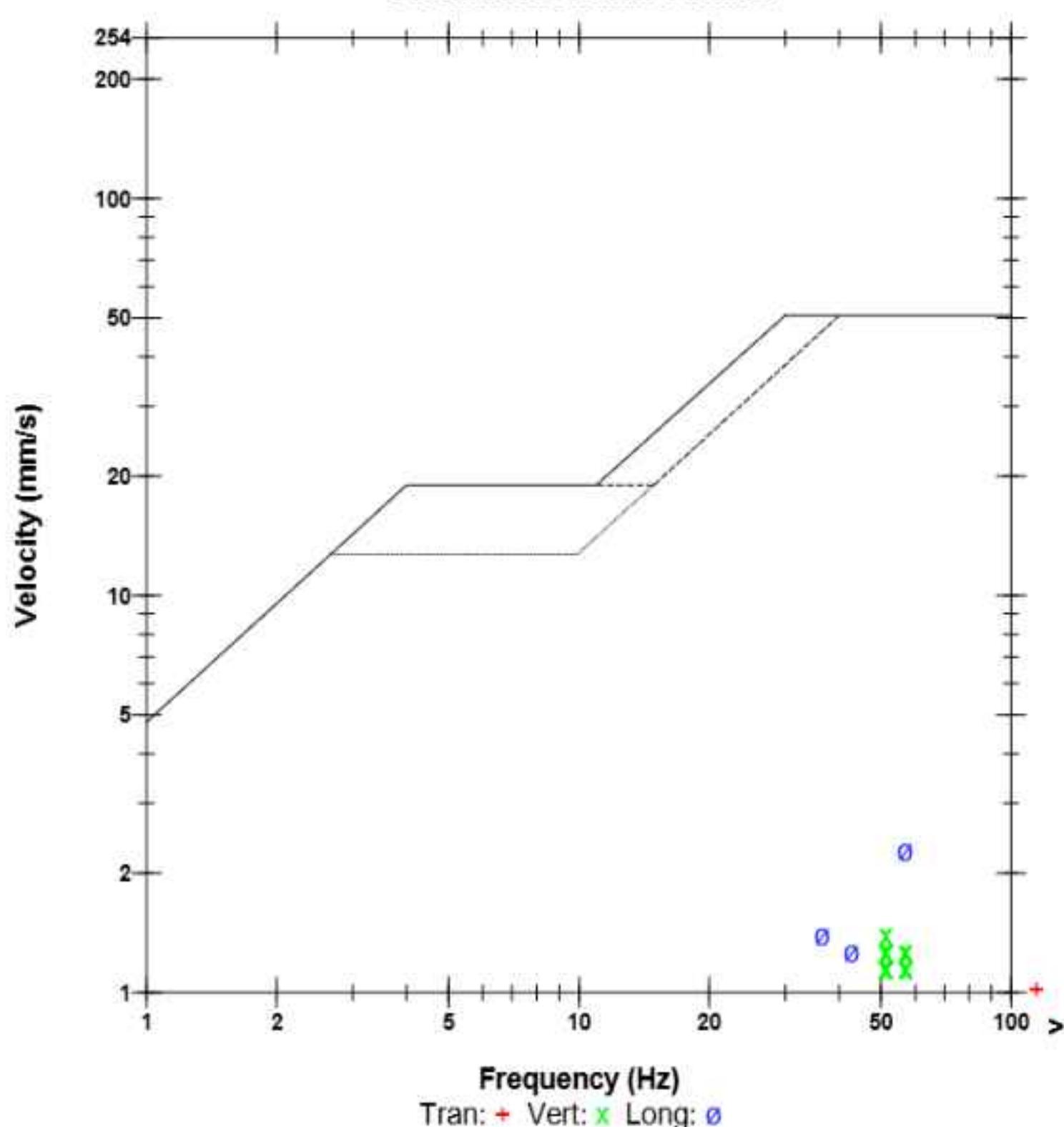
Post Event Notes

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.8 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L8UE.NFO

Post Event Notes

BGH/B9/ART/1ST Bench/WR,
 Nos. of Holes 30, Avg. Depth 7.71 Mtrs.,
 Avg. Ch./delay 35.83 Kgs.,
 Observation Dist. 300 Mtrs

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger = ►—————◀

Sensor Check

कार्यालय मुख्य अभियन्ता गंगा कछार जल संसाधन विभाग रीवा (म0प्र0)

पत्र प्रति, कमांक गंगा/कार्य/ 782-133 का 2023 /2994 रीवा, दिनांक 01/05/2023.

मेसर्स प्रिज्म जॉनसन लिमिटेड
305 लक्ष्मी निवास अपार्टमेंट
हैदराबाद (म0प्र0)।

विषय— जिला सतना के ग्राम बगहाई, तहसील रामपुर बघेलान अंतर्गत मेसर्स प्रिज्म जॉनसन लिमिटेड के पक्ष में रकबा 512.317 है. स्वीकृत खनिपट्टा क्षेत्र से गुजरने वाली मुख्य पुरवा नहर के दोनों ओर 100 मीटर का प्रतिबंधित क्षेत्र छोड़कर खनिज चूनापत्थर के खनन का कार्य करने के संबंध में।

सन्दर्भ— आपका पत्रक्रमांक PJM/MRM/2023-24/22 दिनांक 24.03.2020.

—00—

विषयान्तर्गत म0प्र0शासन खनिज साधन विभाग मंत्रालय भोपाल के आदेशक्रमांक एफ 3-7/06/12/1 भोपाल दिनांक 16.09.2008 द्वारा जिला सतना के ग्राम बगहाई, तहसील रामपुर बघेलान अंतर्गत मेसर्स प्रिज्म जॉनसन लिमिटेड के पक्ष में रकबा 512.317 है. क्षेत्र में खनिपट्टा स्वीकृत किया गया है।

अतः आपके आवेदन के परिप्रेक्ष्य में खनिज रियायत नियम 1960 में विहित प्रावधान तथा म0प्र0 राजपत्र (असाधारण) दिनांक 23 मार्च 2013 में प्रकाशित मध्यप्रदेश गौण खनिज नियम 1966 में किए गये संशोधन अनुसार पुरवा नहर संरचना के दोनों ओर 100-100 मीटर का प्रतिबंधित क्षेत्र छोड़कर खनन कार्य किए जाने हेतु सहमति प्रदान की जाती है। इस अनुमति से यदि विभागीय संरचना प्रभावित होती है तब कम्पनी को विभाग के निर्देशों का पालन करना होगा।

सहपत्र—शून्य

(जे0एस0 कुसरे)

मुख्य अभियंता

गंगा कछार जल संसाधन विभाग
रीवा (म0प्र0)

पृ. कमांक गंगा/कार्य/ 782-133 का 2023 2995 रीवा, दिनांक 01/05/2023.

- 1— अधीक्षण यंत्री बाणसागर नहर मण्डल रीवा।
- 2— कार्यपालन यंत्री पुरवा नहर संभागक्र2 सतना।

की ओर सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित।

सहपत्र—शून्य।

हस्ताक्षर

(जे0एस0 कुसरे)

मुख्य अभियंता

गंगा कछार जल संसाधन विभाग
रीवा (म0प्र0)



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J.M. ENVIROLAB PVT. LTD.

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018



TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahal Limestone Mines, Area 512.317 ha, Village- Bagahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250407613
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/05/2025
Sampling Location:	Adiwas Tola (Near Bagahal ML Area)	Monitoring Month:	April, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 57" N
		Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
02/04/2025 to 03/04/2025	19.07	38.25	11.40	6.83	0.53
04/04/2025 to 05/04/2025	27.40	47.96	14.58	7.67	0.56
08/04/2025 to 09/04/2025	33.05	56.58	17.26	9.46	0.62
11/04/2025 to 12/04/2025	31.84	50.34	16.78	8.87	0.61
15/04/2025 to 16/04/2025	17.12	36.25	10.80	5.61	0.51
18/04/2025 to 19/04/2025	22.16	43.45	13.81	7.27	0.54
22/04/2025 to 23/04/2025	30.26	49.79	15.52	8.19	0.58
25/04/2025 to 26/04/2025	46.08	64.91	20.46	11.48	0.67
28/04/2025 to 29/04/2025	33.74	61.13	18.10	9.77	0.65
29/04/2025 to 30/04/2025	44.39	63.46	19.64	10.51	0.66
Minimum	15.23	32.26	9.90	5.14	0.50
Maximum	30.26	57.78	18.74	10.08	0.61
Average	22.83	44.14	14.11	7.53	0.56

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report


 Ritika Saini
 Tested by


 Deepak Singh
 Checked by


 Authorised
Signatory

 Sita Ram Yadav
 Authorized Signatory

Note:

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 E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756



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TC-6821

TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited
Bagahai Limestone Mines, Area 512.317 ha,
Village- Bagahai, Tehsil- Raghuraj Nagar,
Distt- Satna, Madhya Pradesh**

Report No.: **JME/A/250407614**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

Date of Reporting: **05/05/2025**

Sampling Location: **At Baisan Tola (Near Bagahai ML Area)**

Monitoring Month: **April, 2025**

Sample Collected by: **JMELPL Team**

Protocol Used: **IS-5182**

Client Representative: **Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)**

Instrument Used for Sampling: **RDS & FPS**

Latitude: **24° 33' 18" N**

Longitude: **81° 2' 41" E**

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
02/04/2025 to 03/04/2025	20.85	39.21	11.47	6.90	0.56
04/04/2025 to 05/04/2025	23.23	43.75	14.41	8.08	0.57
08/04/2025 to 09/04/2025	27.19	54.82	17.78	9.27	0.62
11/04/2025 to 12/04/2025	25.88	51.93	16.59	8.34	0.60
15/04/2025 to 16/04/2025	18.72	37.14	10.29	5.57	0.53
18/04/2025 to 19/04/2025	22.96	42.28	13.65	7.71	0.54
22/04/2025 to 23/04/2025	24.16	45.41	14.83	8.57	0.58
25/04/2025 to 26/04/2025	31.07	60.81	19.15	10.82	0.64
28/04/2025 to 29/04/2025	28.47	57.55	17.02	9.65	0.61
29/04/2025 to 30/04/2025	30.56	59.75	18.19	10.21	0.63
Minimum	18.72	37.14	10.29	5.57	0.53
Maximum	31.07	60.81	19.15	10.82	0.64
Average	25.31	49.26	15.34	8.51	0.59

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report

Ritika Saini
Tested by

Deepak Singh
Checked by

ENVIROLAB PVT. LTD.
Authorised Signatory
Smt. Raimi Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250407615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/05/2025
Sampling Location:	South Side of Working Pit (Bagahai Mines)	Monitoring Month:	April, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
02/04/2025 to 03/04/2025	21.05	45.80	15.10	7.92	0.60
04/04/2025 to 05/04/2025	24.68	51.72	18.22	9.77	0.62
08/04/2025 to 09/04/2025	31.27	60.86	21.10	11.28	0.67
11/04/2025 to 12/04/2025	27.02	55.64	20.87	10.59	0.65
15/04/2025 to 16/04/2025	19.94	43.39	13.30	7.50	0.57
18/04/2025 to 19/04/2025	22.89	50.25	17.70	9.13	0.61
22/04/2025 to 23/04/2025	25.75	52.16	19.34	10.16	0.63
25/04/2025 to 26/04/2025	35.69	64.26	22.61	12.70	0.70
28/04/2025 to 29/04/2025	32.47	61.96	21.78	11.91	0.69
29/04/2025 to 30/04/2025	34.71	63.17	21.72	12.26	0.71
Minimum	19.94	43.39	13.30	7.50	0.57
Maximum	35.69	64.26	22.61	12.70	0.71
Average	27.55	54.92	19.17	10.32	0.64

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report


 Ritika Saini
 Tested by


 Deepak Singh
 Checked by


 Sita Ram Yadav
 Authorized Signatory

Note:

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J.M. ENVIROLAB PVT. LTD.

CIN No. U74220HR2011PTC085756



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Baghah Limestone Mines, Area 512.317 ha, Village- Baghah, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250407616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/05/2025
Sampling Location:	Near Boundary Pillar No. 64 Baghah	Monitoring Month:	April, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
02/04/2025 to 03/04/2025	21.83	40.35	16.06	8.35	0.58
04/04/2025 to 05/04/2025	26.21	50.92	19.02	9.74	0.62
08/04/2025 to 09/04/2025	32.50	58.52	22.75	11.34	0.72
11/04/2025 to 12/04/2025	29.15	56.44	21.19	10.60	0.65
15/04/2025 to 16/04/2025	18.98	38.22	15.22	7.91	0.55
18/04/2025 to 19/04/2025	24.83	49.31	18.74	9.36	0.60
22/04/2025 to 23/04/2025	27.21	52.86	19.58	10.03	0.64
25/04/2025 to 26/04/2025	37.01	72.19	24.75	12.80	0.75
28/04/2025 to 29/04/2025	34.08	66.41	23.27	11.86	0.73
29/04/2025 to 30/04/2025	36.38	68.94	24.12	12.57	0.75
Minimum	18.98	38.22	15.22	7.91	0.55
Maximum	37.01	72.19	24.75	12.80	0.75
Average	28.82	55.42	20.47	10.46	0.66

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report

Ritika Saini
Tested by

Deepak Singh
Checked by

Sita Ram Yadav
Authorised Signatory

Note:

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Corporate Office

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756



TC-6821

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahal Limestone Mines, Area 512.317 ha, Village- Bagahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250505613
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/06/2025
Sampling Location:	Adiwasli Tola (Near Bagahal ML Area)	Monitoring Month:	May, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 57" N
		Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
01/05/2025 to 02/05/2025	20.4	40.9	11.9	6.4	0.55
02/05/2025 to 03/05/2025	29.3	51.3	15.2	8.0	0.58
06/05/2025 to 07/05/2025	35.4	60.5	17.9	9.8	0.64
09/05/2025 to 10/05/2025	34.1	53.9	17.5	9.2	0.63
13/05/2025 to 14/05/2025	49.3	69.5	21.3	11.9	0.70
16/05/2025 to 17/05/2025	47.5	67.9	20.4	10.9	0.69
20/05/2025 to 21/05/2025	32.4	53.3	16.1	8.5	0.60
23/05/2025 to 24/05/2025	18.3	38.8	11.2	5.8	0.53
27/05/2025 to 28/05/2025	23.7	46.5	14.4	7.6	0.56
30/05/2025 to 31/05/2025	36.1	65.4	18.8	10.2	0.67
Minimum	18.3	38.8	11.2	5.8	0.53
Maximum	49.3	69.5	21.3	11.9	0.70
Average	32.65	54.80	16.47	8.84	0.62

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report

Ritika Saini
Tested by

Deepak Singh
Checked by

JM ENVIROLAB PVT. LTD.
Authorised Signatory
Smt. Ram Yadav
Authorised Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756

Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018



TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250505614
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/05/2025
Sampling Location:	At Baisan Tola (Near Bagahai ML Area)	Monitoring Month:	May, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 18" N
		Longitude:	81° 2' 41" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
01/05/2025 to 02/05/2025	22.3	42.0	11.9	7.2	0.58
02/05/2025 to 03/05/2025	25.9	46.8	15.0	8.4	0.59
06/05/2025 to 07/05/2025	29.1	58.7	18.5	9.6	0.64
09/05/2025 to 10/05/2025	27.7	55.6	17.3	8.7	0.62
13/05/2025 to 14/05/2025	34.2	65.1	19.9	11.3	0.66
16/05/2025 to 17/05/2025	32.7	63.9	18.9	10.6	0.65
20/05/2025 to 21/05/2025	26.8	48.6	15.4	8.9	0.61
23/05/2025 to 24/05/2025	20.0	39.7	10.7	5.8	0.55
27/05/2025 to 28/05/2025	23.6	45.2	14.2	8.0	0.56
30/05/2025 to 31/05/2025	30.5	61.6	17.7	10.0	0.63
Minimum	20.0	39.7	10.7	5.8	0.55
Maximum	34.2	65.1	19.9	11.3	0.66
Average	27.28	52.71	15.95	8.85	0.61

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report


 Ritika Saini
 Tested by


 Deepak Singh
 Checked by


 Sita Ram Yadav
 Authorized Signatory

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 Gurugram-122011(Haryana)

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahal Limestone Mines, Area 512.317 ha, Village- Bagahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250505615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/06/2025
Sampling Location:	South Side of Working Pit (Bagahal Mines)	Monitoring Month:	May, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
01/05/2025 to 02/05/2025	22.5	49.0	15.7	8.2	0.62
02/05/2025 to 03/05/2025	26.4	55.3	19.0	10.2	0.65
06/05/2025 to 07/05/2025	33.5	65.1	21.9	11.7	0.69
09/05/2025 to 10/05/2025	28.9	59.5	21.7	11.0	0.68
13/05/2025 to 14/05/2025	39.2	68.8	23.5	13.2	0.73
16/05/2025 to 17/05/2025	37.1	67.6	22.6	12.8	0.74
20/05/2025 to 21/05/2025	27.6	55.8	20.1	10.6	0.65
23/05/2025 to 24/05/2025	21.3	46.4	13.8	7.8	0.59
27/05/2025 to 28/05/2025	24.5	53.8	18.4	9.5	0.63
30/05/2025 to 31/05/2025	34.7	66.3	22.7	12.4	0.72
Minimum	21.3	46.4	13.8	7.8	0.59
Maximum	39.2	68.8	23.5	13.2	0.74
Average	29.58	58.77	19.94	10.73	0.67

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report



Tested by



Deepak Singh
Checked by



S.N. Ram Yadav
Authorized Signatory

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J.M. ENVIROLAB PVT. LTD.

CIN No. :U74220HR2011PTC085756



Approved from MoEF&CC & Certified - ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahal Limestone Mines, Area 512.317 ha, Village- Bagahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250505616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/05/2025
Sampling Location:	Near Boundary Pillar No. 64 Bagahal	Monitoring Month:	May, 2025
Sample Collected by:	JMELPL Team	Protocol Used:	IS-5182
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

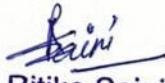
Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
NAAQS	60	100	80	80	4
01/05/2025 to 02/05/2025	23.4	43.2	16.7	8.7	0.60
02/05/2025 to 03/05/2025	28.0	54.5	19.8	10.1	0.64
06/05/2025 to 07/05/2025	34.8	62.6	23.7	11.8	0.75
09/05/2025 to 10/05/2025	31.2	60.4	22.0	11.0	0.67
13/05/2025 to 14/05/2025	39.6	77.2	25.7	13.3	0.78
16/05/2025 to 17/05/2025	38.9	73.8	25.1	13.1	0.77
20/05/2025 to 21/05/2025	29.1	56.6	20.4	10.4	0.66
23/05/2025 to 24/05/2025	20.3	40.9	15.8	8.2	0.57
27/05/2025 to 28/05/2025	26.6	52.8	19.5	9.7	0.62
30/05/2025 to 31/05/2025	36.5	71.1	24.2	12.3	0.76
Minimum	20.3	40.9	15.8	8.2	0.57
Maximum	39.6	77.2	25.7	13.3	0.78
Average	30.84	59.30	21.29	10.87	0.68

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide (One Hour)

End of Report


 Ritika Saini
 Tested by


 Deepak Singh
 Checked by
Sita Rani Yadav
Authorized Signatory

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Corporate Office

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Gurugram-122011(Haryana)



TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250606613
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	04/07/2025
Sampling Location:	Adiwasri Tola (Near Bagahai ML Area)	Monitoring Month:	June, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 57" N
		Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
03/06/2025 to 04/06/2025	44.6	63.8	17.7	10.3	0.65
06/06/2025 to 07/06/2025	46.3	65.3	19.8	11.2	0.66
10/06/2025 to 11/06/2025	32.0	50.6	16.4	8.7	0.59
13/06/2025 to 14/06/2025	34.2	56.9	17.3	9.2	0.60
17/06/2025 to 18/06/2025	30.4	50.1	15.2	8.0	0.56
20/06/2025 to 21/06/2025	27.6	48.2	14.2	7.5	0.55
24/06/2025 to 25/06/2025	17.2	36.5	11.6	5.5	0.50
27/06/2025 to 28/06/2025	19.2	38.5	13.1	6.0	0.52
Minimum	17.2	36.5	11.6	5.5	0.50
Maximum	46.3	65.3	19.8	11.2	0.66
Average	31.46	51.24	15.67	8.31	0.58
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

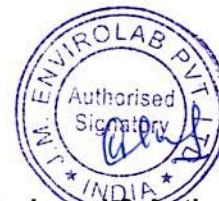
NAAQS	: National Ambient Air Quality Standard
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PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide

Page No.1 of 1

Checked by
Deepak Singh Yadav

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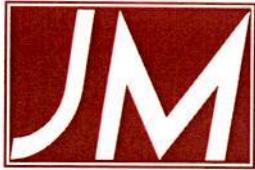
Reviewed & Authorized by
Sita Ram Yadav

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Corporate Office

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250606614
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	04/07/2025
Sampling Location:	At Baisan Tola (Near Bagahai ML Area)	Monitoring Month:	June, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 18" N
		Longitude:	81° 2' 41" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
03/06/2025 to 04/06/2025	30.7	60.1	18.8	10.0	0.61
06/06/2025 to 07/06/2025	32.2	62.2	20.7	10.6	0.62
10/06/2025 to 11/06/2025	27.0	52.2	18.2	8.9	0.58
13/06/2025 to 14/06/2025	29.3	55.1	19.4	9.1	0.60
17/06/2025 to 18/06/2025	26.2	45.7	17.5	8.4	0.57
20/06/2025 to 21/06/2025	24.3	43.9	15.9	7.9	0.55
24/06/2025 to 25/06/2025	18.8	37.4	12.1	5.4	0.52
27/06/2025 to 28/06/2025	21.0	39.4	14.2	6.7	0.54
Minimum	18.8	37.4	12.1	5.4	0.52
Maximum	32.2	62.2	20.7	10.6	0.62
Average	26.20	49.49	17.09	8.38	0.58
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
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CO	: Carbon Monoxide

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Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Sita Ram Yadav

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Corporate Office

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Ext. Road, Sector-61, Gurugram-122011(Haryana)



TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250606615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	04/07/2025
Sampling Location:	South Side of Working Pit (Bagahai Mines)	Monitoring Month:	June, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
03/06/2025 to 04/06/2025	34.9	62.5	21.2	11.5	0.68
06/06/2025 to 07/06/2025	36.8	64.6	22.1	12.4	0.69
10/06/2025 to 11/06/2025	27.2	56.0	19.4	10.4	0.64
13/06/2025 to 14/06/2025	31.4	61.2	20.6	11.0	0.65
17/06/2025 to 18/06/2025	26.9	52.5	18.9	9.9	0.61
20/06/2025 to 21/06/2025	24.8	52.0	16.5	9.6	0.61
24/06/2025 to 25/06/2025	20.1	43.6	13.0	7.3	0.55
27/06/2025 to 28/06/2025	22.2	46.1	14.8	7.7	0.58
Minimum	20.1	43.6	13.0	7.3	0.55
Maximum	36.8	64.6	22.1	12.4	0.69
Average	28.04	54.82	18.31	9.98	0.63
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
CO	: Carbon Monoxide

Page No.1 of 1



Reviewed & Authorized by
Sita Ram Yadav

Checked by
Deepak Singh Yadav

Note:

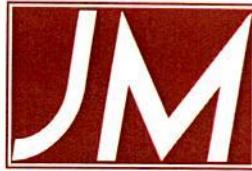
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Corporate Office

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250606616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	04/07/2025
Sampling Location:	Near Boundary Pillar No. 64 Bagahai	Monitoring Month:	June, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
03/06/2025 to 04/06/2025	36.6	69.3	23.6	12.3	0.72
06/06/2025 to 07/06/2025	38.2	72.6	24.2	12.5	0.73
10/06/2025 to 11/06/2025	29.3	56.8	20.7	10.4	0.63
13/06/2025 to 14/06/2025	32.7	58.9	22.2	11.1	0.70
17/06/2025 to 18/06/2025	28.4	53.2	19.1	9.8	0.62
20/06/2025 to 21/06/2025	26.4	51.2	18.6	8.5	0.60
24/06/2025 to 25/06/2025	19.1	38.4	14.9	7.7	0.53
27/06/2025 to 28/06/2025	22.0	40.6	15.7	8.2	0.56
Minimum	19.1	38.4	14.9	7.7	0.53
Maximum	38.2	72.6	24.2	12.5	0.73
Average	29.08	55.12	19.88	10.06	0.64
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
CO	: Carbon Monoxide

Page No.1 of 1

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Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011(Haryana)



TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250707613
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/08/2025
Sampling Location:	Adiwas Tola (Near Bagahai ML Area)	Monitoring Month:	July, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 57" N
		Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
02/07/2025 to 03/07/2025	21.4	42.7	13.0	7.1	0.54
04/07/2025 to 05/07/2025	24.0	46.3	14.4	7.8	0.55
08/07/2025 to 09/07/2025	23.1	46.1	14.4	7.8	0.55
11/07/2025 to 12/07/2025	23.9	46.3	14.9	7.9	0.56
15/07/2025 to 16/07/2025	20.8	40.6	12.5	6.8	0.52
18/07/2025 to 19/07/2025	23.0	45.3	13.9	7.5	0.54
22/07/2025 to 23/07/2025	22.3	40.6	12.8	6.7	0.51
25/07/2025 to 26/07/2025	21.1	42.6	13.5	7.1	0.54
29/07/2025 to 30/07/2025	24.3	51.2	15.8	8.5	0.58
30/07/2025 to 31/07/2025	30.0	56.6	17.0	9.3	0.62
Minimum	20.8	40.6	12.5	6.7	0.51
Maximum	30.0	56.6	17.0	9.3	0.62
Average	23.39	45.83	14.22	7.65	0.55
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4 (1 hourly)

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide

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TC-6821

TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited
Bagahai Limestone Mines, Area 512.317 ha,
Village- Bagahai, Tehsil- Raghuraj Nagar,
Distt- Satna, Madhya Pradesh** Report No.: **JME/A/250707614**

Sample Description: **AMBIENT AIR QUALITY MONITORING** Date of Reporting: **05/08/2025**

Sampling Location: **At Baisan Tola (Near Bagahai ML Area)** Monitoring Month: **July, 2025**

Sample Collected by: **JMELPL Team** Sampling Protocol: **JMELPL/STOP/04**

Client Representative: **Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)** Instrument Used for Sampling: **RDS & FPS**

Latitude: **24° 33' 18" N**
Longitude: **81° 2' 41" E**

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
02/07/2025 to 03/07/2025	19.5	42.4	13.2	7.1	0.54
04/07/2025 to 05/07/2025	20.7	44.5	14.2	7.5	0.54
08/07/2025 to 09/07/2025	20.7	45.2	14.5	7.6	0.55
11/07/2025 to 12/07/2025	21.0	46.1	15.0	7.5	0.55
15/07/2025 to 16/07/2025	18.9	39.4	12.4	6.7	0.52
18/07/2025 to 19/07/2025	20.1	43.5	13.7	7.4	0.54
22/07/2025 to 23/07/2025	18.5	38.3	12.6	6.7	0.52
25/07/2025 to 26/07/2025	19.1	42.1	13.1	7.0	0.53
29/07/2025 to 30/07/2025	22.1	48.5	15.1	8.3	0.56
30/07/2025 to 31/07/2025	23.9	53.3	15.9	8.8	0.58
Minimum	18.5	38.3	12.4	6.7	0.52
Maximum	23.9	53.3	15.9	8.8	0.58
Average	20.45	44.33	13.97	7.46	0.54
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4 (1 hourly)

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS : National Ambient Air Quality Standard
PM_{2.5} : Fine Particulate Matter
PM₁₀ : Respirable Suspended Particulate Matter
NO₂ : Nitrogen Dioxide
SO₂ : Sulphur Dioxide
CO : Carbon Monoxide

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TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahal Limestone Mines, Area 512.317 ha, Village- Bagahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250707615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/08/2025
Sampling Location:	South Side of Working Pit (Bagahal Mines)	Monitoring Month:	July, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
02/07/2025 to 03/07/2025	20.9	47.5	16.3	8.6	0.59
04/07/2025 to 05/07/2025	22.3	49.1	17.2	9.4	0.60
08/07/2025 to 09/07/2025	22.4	50.3	17.5	9.5	0.60
11/07/2025 to 12/07/2025	22.5	50.3	18.2	9.5	0.60
15/07/2025 to 16/07/2025	20.0	44.7	15.1	8.2	0.57
18/07/2025 to 19/07/2025	21.9	49.4	16.8	9.1	0.59
22/07/2025 to 23/07/2025	19.0	44.7	15.9	8.4	0.57
25/07/2025 to 26/07/2025	20.9	46.5	15.9	8.7	0.58
29/07/2025 to 30/07/2025	24.4	53.2	18.8	10.2	0.63
30/07/2025 to 31/07/2025	27.2	56.7	19.7	11.1	0.66
Minimum	19.0	44.7	15.1	8.2	0.57
Maximum	27.2	56.7	19.7	11.1	0.66
Average	22.15	49.24	17.14	9.27	0.60
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4 (1 hourly)

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide

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TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250707616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/08/2025
Sampling Location:	Near Boundary Pillar No. 64 Bagahai	Monitoring Month:	July, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
02/07/2025 to 03/07/2025	21.9	46.2	17.4	8.9	0.59
04/07/2025 to 05/07/2025	23.4	50.7	18.6	9.5	0.61
08/07/2025 to 09/07/2025	23.4	49.8	18.9	9.5	0.62
11/07/2025 to 12/07/2025	23.8	50.9	19.1	9.6	0.61
15/07/2025 to 16/07/2025	20.3	43.9	16.4	8.5	0.57
18/07/2025 to 19/07/2025	22.8	48.3	18.3	9.1	0.61
22/07/2025 to 23/07/2025	20.0	43.8	16.6	8.5	0.56
25/07/2025 to 26/07/2025	21.2	46.2	17.3	8.9	0.59
29/07/2025 to 30/07/2025	25.9	56.7	20.3	10.3	0.65
30/07/2025 to 31/07/2025	28.5	61.5	21.5	11.1	0.70
Minimum	20.0	43.8	16.4	8.5	0.56
Maximum	28.5	61.5	21.5	11.1	0.70
Average	23.12	49.80	18.44	9.39	0.61
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60	100	80	80	4 (1 hourly)

Note: Monitoring was carried out for 24 hours at the above Location.

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
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CIN No. :U74220HR2011PTC085756



TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250807613
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/09/2025
Sampling Location:	Adiwasai Tola (Near Bagahai ML Area)	Monitoring Month:	August, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 57" N
		Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
04/08/2025 to 05/08/2025	16.8	38.8	13.4	6.5	0.53
07/08/2025 to 08/08/2025	15.3	35.4	12.3	6.0	BDL (DL 0.5)
11/08/2025 to 12/08/2025	19.3	44.2	14.1	7.7	0.54
14/08/2025 to 15/08/2025	21.0	46.4	15.5	8.4	0.57
18/08/2025 to 19/08/2025	22.8	50.9	16.7	9.7	0.61
21/08/2025 to 22/08/2025	18.5	41.9	13.6	7.1	0.53
25/08/2025 to 26/08/2025	15.9	36.2	12.5	6.3	0.51
28/08/2025 to 29/08/2025	19.9	45.8	14.6	7.9	0.55
Minimum	15.3	35.4	12.3	6.0	0.51
Maximum	22.8	50.9	16.7	9.7	0.61
Average	18.70	42.44	14.08	7.45	0.55
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2) sec 1	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hourly)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250807614
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/09/2025
Sampling Location:	At Baisan Tola (Near Bagahai ML Area)	Monitoring Month:	August, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
04/08/2025 to 05/08/2025	16.2	36.8	12.4	6.6	BDL (DL 0.5)
07/08/2025 to 08/08/2025	13.9	33.5	11.4	5.9	BDL (DL 0.5)
11/08/2025 to 12/08/2025	17.6	40.8	13.4	7.6	0.51
14/08/2025 to 15/08/2025	20.6	47.9	14.9	8.2	0.53
18/08/2025 to 19/08/2025	22.1	51.5	15.6	9.6	0.54
21/08/2025 to 22/08/2025	17.1	38.1	13.0	7.2	0.52
25/08/2025 to 26/08/2025	15.1	34.8	12.1	6.2	BDL (DL 0.5)
28/08/2025 to 29/08/2025	19.6	46.4	13.8	8.0	0.52
Minimum	13.9	33.5	11.4	5.9	0.51
Maximum	22.1	51.5	15.6	9.6	0.54
Average	17.76	41.24	13.32	7.40	0.53
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hourly)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

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Note:

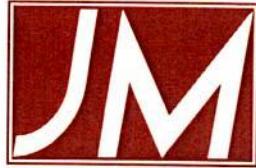
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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250807615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/09/2025
Sampling Location:	South Side of Working Pit (Bagahai Mines)	Monitoring Month:	August, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

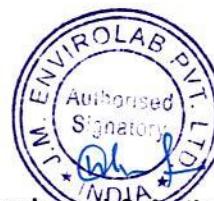
Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
04/08/2025 to 05/08/2025	18.3	41.6	14.7	8.7	BDL (DL 0.5)
07/08/2025 to 08/08/2025	16.6	39.1	13.2	7.6	BDL (DL 0.5)
11/08/2025 to 12/08/2025	19.6	44.8	16.2	9.6	0.51
14/08/2025 to 15/08/2025	22.3	48.7	17.3	10.9	0.53
18/08/2025 to 19/08/2025	23.8	52.4	18.1	12.0	0.54
21/08/2025 to 22/08/2025	19.2	43.2	15.6	9.3	0.52
25/08/2025 to 26/08/2025	17.5	40.3	13.9	8.0	BDL (DL 0.5)
28/08/2025 to 29/08/2025	20.6	46.8	16.8	9.7	0.52
Minimum	16.6	39.1	13.2	7.6	0.51
Maximum	23.8	52.4	18.1	12.0	0.54
Average	19.74	44.62	15.74	9.47	0.53
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hourly)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM _{2.5}	: Fine Particulate Matter
PM ₁₀	: Respirable Suspended Particulate Matter
NO ₂	: Nitrogen Dioxide
SO ₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

Page No.1 of 1

Checked by
Abhishek Tiwari



Reviewed & Authorized by
Sita Ram Yadav

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CIN No. :U74220HR2011PTC085756



TC-6821

TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250807616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	05/09/2025
Sampling Location:	Near Boundary Pillar No. 64 Bagahai	Monitoring Month:	August, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
04/08/2025 to 05/08/2025	18.5	41.9	15.3	9.0	0.56
07/08/2025 to 08/08/2025	16.6	38.0	14.1	8.1	0.53
11/08/2025 to 12/08/2025	19.8	45.9	16.2	10.0	0.58
14/08/2025 to 15/08/2025	22.4	52.4	17.4	10.9	0.62
18/08/2025 to 19/08/2025	24.5	56.1	17.8	12.3	0.67
21/08/2025 to 22/08/2025	18.9	42.7	15.7	9.6	0.58
25/08/2025 to 26/08/2025	17.5	39.8	14.6	8.5	0.54
28/08/2025 to 29/08/2025	21.5	50.4	16.4	10.4	0.59
Minimum	16.6	38.0	14.1	8.1	0.53
Maximum	24.5	56.1	17.8	12.3	0.67
Average	19.95	45.88	15.94	9.85	0.58
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hourly)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Report No.:	JME/A/250904613
		Date of Reporting:	03/10/2025
		Monitoring Month:	September, 2025
		Sampling Protocol:	JMELPL/STOP/04
Sample Description:	AMBIENT AIR QUALITY MONITORING	Instrument Used for Sampling:	RDS & FPS
Sampling Location:	Adiwasi Tola (Near Bagahai ML Area)		
Sample Collected by:	JMELPL Team	Latitude:	24° 33' 57" N
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Longitude:	81° 3' 12" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
01/09/2025 to 02/09/2025	16.5	38.0	13.1	6.4	0.54
04/09/2025 to 05/09/2025	15.0	34.7	12.0	5.9	0.51
08/09/2025 to 09/09/2025	18.9	43.4	13.8	7.5	0.55
11/09/2025 to 12/09/2025	20.6	45.5	15.2	8.2	0.58
15/09/2025 to 16/09/2025	22.4	49.8	16.3	9.5	0.62
18/09/2025 to 19/09/2025	18.1	41.0	13.3	6.9	0.54
22/09/2025 to 23/09/2025	15.6	35.5	12.3	6.1	0.52
25/09/2025 to 26/09/2025	19.5	44.8	14.3	7.8	0.56
Minimum	15.0	34.7	12.0	5.9	0.51
Maximum	22.4	49.8	16.3	9.5	0.62
Average	18.32	41.59	13.80	7.30	0.55
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2) sec 1	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hour)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide

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Checked by
Deepak Singh Yadav



Reviewed & Authorized by
nakumai Yadav

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TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited
Bagahai Limestone Mines, Area 512.317 ha,
Village- Bagahai, Tehsil- Raghuraj Nagar,
Distt- Satna, Madhya Pradesh**

Sample Description: **AMBIENT AIR QUALITY MONITORING**

Sampling Location: **At Baisan Tola (Near Bagahai ML Area)**

Sample Collected by: **JMELPL Team**

Client Representative: **Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)**

Report No.: **JME/A/250904614**

Date of Reporting: **03/10/2025**

Monitoring Month: **September, 2025**

Sampling Protocol: **JMELPL/STOP/04**

Instrument Used for Sampling: **RDS & FPS**

Latitude: **24° 33' 18" N**

Longitude: **81° 2' 41" E**

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
01/09/2025 to 02/09/2025	15.9	36.1	12.2	6.5	0.51
04/09/2025 to 05/09/2025	17.2	39.9	13.1	7.4	0.52
08/09/2025 to 09/09/2025	14.8	34.1	11.8	6.1	BDL (DL 0.5)
11/09/2025 to 12/09/2025	21.6	50.5	15.3	9.4	0.55
15/09/2025 to 16/09/2025	19.2	45.5	13.5	7.8	0.53
18/09/2025 to 19/09/2025	20.1	47.0	14.6	8.1	0.54
22/09/2025 to 23/09/2025	16.7	37.3	12.8	7.0	0.53
25/09/2025 to 26/09/2025	13.6	32.9	11.2	5.8	BDL (DL 0.5)
Minimum	13.6	32.9	11.2	5.8	0.51
Maximum	21.6	50.5	15.3	9.4	0.55
Average	17.41	40.40	13.06	7.25	0.53
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hour)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

Page No.1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Rajkumar Yadav

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250904615
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	03/10/2025
Sampling Location:	South Side of Working Pit (Bagahai Mines)	Monitoring Month:	September, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 58" N
		Longitude:	81° 2' 27" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
01/09/2025 to 02/09/2025	17.9	40.8	14.4	8.5	0.51
04/09/2025 to 05/09/2025	19.2	43.9	15.9	9.5	0.52
08/09/2025 to 09/09/2025	17.2	39.5	13.6	7.9	BDL (DL 0.5)
11/09/2025 to 12/09/2025	23.3	51.4	17.8	11.8	0.55
15/09/2025 to 16/09/2025	20.2	45.9	16.5	9.5	0.53
18/09/2025 to 19/09/2025	21.8	47.7	17.5	10.7	0.54
22/09/2025 to 23/09/2025	18.8	42.4	15.3	9.1	0.53
25/09/2025 to 26/09/2025	16.3	38.3	13.0	7.4	BDL (DL 0.5)
Minimum	16.3	38.3	13.0	7.4	0.51
Maximum	23.3	51.4	17.8	11.8	0.55
Average	19.34	43.73	15.49	9.28	0.53
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hour)

Abbreviations:

NAAQS	: National Ambient Air Quality Standard
PM_{2.5}	: Fine Particulate Matter
PM₁₀	: Respirable Suspended Particulate Matter
NO₂	: Nitrogen Dioxide
SO₂	: Sulphur Dioxide
CO	: Carbon Monoxide
BDL	: Below Detection Limit
DL	: Detection Limit

Page No.1 of 1

Checked by
Deepak Singh Yadav

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Rajkumar Yadav

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TEST REPORT

Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh.	Report No.:	JME/A/250904616
Sample Description:	AMBIENT AIR QUALITY MONITORING	Date of Reporting:	03/10/2025
Sampling Location:	Near Boundary Pillar No. 64 Bagahai	Monitoring Month:	September, 2025
Sample Collected by:	JMELPL Team	Sampling Protocol:	JMELPL/STOP/04
Client Representative:	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Instrument Used for Sampling:	RDS & FPS
		Latitude:	24° 33' 40" N
		Longitude:	81° 2' 35" E

TEST RESULTS

Date	Parameter				
	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	NO ₂ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)
01/09/2025 to 02/09/2025	18.1	41.0	15.0	8.8	0.57
04/09/2025 to 05/09/2025	19.4	45.0	15.9	9.8	0.59
08/09/2025 to 09/09/2025	17.1	39.0	14.3	8.4	0.55
11/09/2025 to 12/09/2025	24.0	54.9	17.5	12.0	0.68
15/09/2025 to 16/09/2025	20.7	49.4	16.1	10.2	0.60
18/09/2025 to 19/09/2025	21.9	51.3	17.1	10.7	0.63
22/09/2025 to 23/09/2025	18.5	41.9	15.4	9.4	0.59
25/09/2025 to 26/09/2025	16.2	37.3	13.8	7.9	0.54
Minimum	16.2	37.3	13.8	7.9	0.54
Maximum	24.0	54.9	17.5	12.0	0.68
Average	19.50	44.97	15.62	9.65	0.60
Testing Protocol	IS 5182 (Part-24)	IS 5182 (Part-23)	IS 5182 (Part-6)	IS 5182 (Part-2)	IS 5182 (Part-10)
NAAQS	60 (24 hourly)	100 (24 hourly)	80 (24 hourly)	80 (24 hourly)	4 (1 hour)

Abbreviations:

NAAQS : National Ambient Air Quality Standard
PM_{2.5} : Fine Particulate Matter
PM₁₀ : Respirable Suspended Particulate Matter
NO₂ : Nitrogen Dioxide
SO₂ : Sulphur Dioxide
CO : Carbon Monoxide

Page No.1 of 1


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 Rajkumar Yadav

Note:

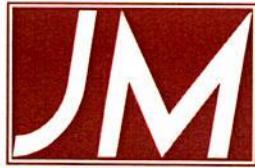
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TEST REPORT

Sample Number:	JME/PJCL/AN/22	Report No.:	JME/AN/250630667
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi

(Assistant General Manager- Environment)
JMEPL Team

Sample collected by

Adiwasri Tola (Near Bagahai ML Area)

Sampling Location

23/06/2025 to 24/06/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

--

Latitude

--

Longitude

Sound Level Meter

Instrument used

JME/SLM/02/04

Instrument code

Calibrated

Instrument calibration status

Cloudy Sky

Meteorological condition during monitoring

Max 29°C, Min 28°C

Ambient Temperature (°C)

Human & Vehicular Activities

Surrounding activity

Regulatory Requirement

Scope of Monitoring

--

Control measure if any

JMEPL/STOP/04

Sampling Protocol

24 Hrs.

Duration of Monitoring, (minutes)

As per work order

Parameter Required

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	65.6	54.5	dB(A)
2.	Lmin	IS-9989	41.2	37.6	dB(A)
3.	Leq	IS-9989	50.0	40.9	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)

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End of Report



TEST REPORT

Sample Number:	JME/PJCL/AN/24	Report No.:	JME/AN/250630669
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi

(Assistant General Manager- Environment)
JMEPL Team

Sample collected by

South Side of Working Pit (Bagahai Mines)

Sampling Location

25/06/2025 to 26/06/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

Latitude

Longitude

Instrument used

Sound Level Meter

Instrument code

JME/SLM/02/04

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Cloudy Sky

Ambient Temperature (°C)

Max 32°C, Min 28°C

Surrounding activity

Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Control measure if any

--

Sampling Protocol

JMEPL/STOP/04

Duration of Monitoring, (minutes)

24 Hrs.

Parameter Required

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	71.1	59.2	dB(A)
2.	Lmin	IS-9989	47.6	39.1	dB(A)
3.	Leq	IS-9989	56.5	46.6	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)

Page No. 1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Sita Ram Yadav

Note:

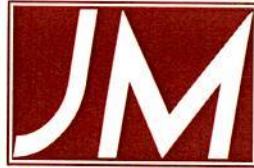
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TEST REPORT

Sample Number:	JME/PJCL/AN/25	Report No.:	JME/AN/250630670
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	Nil
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

Sample collected by

JMELPL Team

Sampling Location

Near Boundary Pillar No. 64 Bagahai

Date of Monitoring

26/06/2025 to 27/06/2025

Time of Monitoring

06:00 AM to 06:00 AM

Latitude

Longitude

Instrument used

Sound Level Meter

Instrument code

JME/SLM/02/05

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Cloudy Sky

Ambient Temperature (°C)

Max 32°C, Min 26°C

Surrounding activity

Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Control measure if any

--

Sampling Protocol

JMELPL/STOP/04

Duration of Monitoring, (minutes)

24 Hrs.

Parameter Required

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	66.6	60.1	dB(A)
2.	L _{min}	IS-9989	43.5	38.8	dB(A)
3.	L _{eq}	IS-9989	58.8	49.9	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	--	75	70	dB(A)

Page No. 1 of 1

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Sita Ram Yadav

Note:

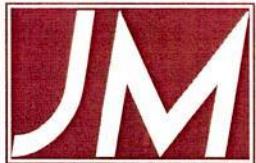
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TEST REPORT

Sample Number:	JME/PJCL/AN/22	Report No.:	JME/AN/250915667
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)
Sample collected by	JMELPL Team
Sampling Location	Adiwasai Tola (Near Bagahai ML Area)
Date of Monitoring	10/09/2025 to 11/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/05
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Human & Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	69.0	58.7	dB(A)
2.	Lmin	IS-9989	50.3	46.3	dB(A)
3.	Leq	IS-9989	59.3	50.0	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)

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Deepak Singh Yadav



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Rajkumar Yadav

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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/AN/23	Report No.:	JME/AN/250915668
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	Nil
		Reporting Date:	18/09/2025
		Receipt Date:	15/09/2025

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)
Sample collected by	JMELPL Team
Sampling Location	At Baisan Tola (Near Bagahai ML Area)
Date of Monitoring	10/09/2025 to 11/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Human & Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	65.8	59.3	dB(A)
2.	L _{min}	IS-9989	49.0	41.7	dB(A)
3.	L _{eq}	IS-9989	60.1	50.4	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	-	75	70	dB(A)

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TEST REPORT

Sample Number:	JME/PJCL/AN/24	Report No.:	JME/AN/250915669
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	18/09/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

JMELPL Team

Sample collected by

South Side of Working Pit (Bagahai Mines)

Sampling Location

12/09/2025 to 13/09/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

-

Latitude

-

Longitude

Sound Level Meter

Instrument used

JME/SLM/02/05

Instrument code

Calibrated

Instrument calibration status

Clear Sky

Meteorological condition during monitoring

Max 33°C, Min 27°C

Ambient Temperature (°C)

Vehicular Activities

Surrounding activity

Regulatory Requirement

Scope of Monitoring

-

Control measure if any

JMELPL/STOP/04

Sampling Protocol

24 Hrs.

Duration of Monitoring, (minutes)

As per work order

Parameter Required

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	70.6	58.6	dB(A)
2.	L _{min}	IS-9989	48.2	38.5	dB(A)
3.	L _{eq}	IS-9989	55.4	45.0	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	-	75	70	dB(A)

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TEST REPORT

Sample Number:	JME/PJCL/AN/25	Report No.:	JME/AN/250915670
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	18/09/2025
		Receipt Date:	15/09/2025

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)
Sample collected by	JMELPL Team
Sampling Location	Near Boundary Pillar No. 64 Bagahai
Date of Monitoring	12/09/2025 to 13/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	65.0	59.4	dB(A)
2.	Lmin	IS-9989	43.2	37.9	dB(A)
3.	Leq	IS-9989	57.8	49.0	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)

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TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250616016
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 54" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS:3025 (Part-11)	7.65	-	6.5 to 8.5	No Relaxation
2.	Colour	IS:3025 (Part 4)	BDL (DL 1.0)	Hazen Unit	5	15
3.	Taste	IS:3025 (Part-8)	Agreeable	-	Agreeable	Agreeable
4.	Turbidity	IS:3025 (Part-10)	BDL (DL 1.0)	NTU	1	5
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	435.0	mg/l	200	600
6.	Calcium as Ca	IS:3025 (Part-40)	88.52	mg/l	75	200
7.	Magnesium as Mg	IS:3025 (Part-46)	52.08	mg/l	30	100
8.	Chloride as Cl	IS:3025 (Part-32)	30.52	mg/l	250	1000
9.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	285.0	mg/l	200	600
10.	Residual free Chlorine	IS:3025 (Part-26)	BDL (DL 0.2)	mg/l	0.2	1.0
11.	Cyanide as CN	IS:3025 (Part-27)	BDL (DL 0.02)	mg/l	0.05	No Relaxation
12.	Total Dissolved Solids	IS:3025 (Part-16)	535.0	mg/l	500	2000
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	90.52	mg/l	200	400
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.52	mg/l	1	1.5

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TEST REPORT

Sample Number: JME/PJCL/W/16

Report No.: JME/W/250616016

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
15.	Nitrate as NO ₃ -N	IS:3025 (Part-34)	1.45	mg/l	45	No Relaxation
16.	Iron as Fe	IS:3025 (Part-53)	0.06	mg/l	1	No Relaxation
17.	Phenols	APHA (23rd edition) 5540-Phenol-C/D	BDL (DL 0.05)	mg/l	0.001	0.002
18.	Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52)	BDL (DL 0.001)	mg/l	-	-
19.	Boron	IS:3025 (Part-57)	BDL (DL 0.03)	mg/l	0.5	2.4
20.	Aluminium as Al	IS:3025 (Part-55)	BDL (DL 0.2)	mg/l	0.03	0.2
21.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL (DL 0.03)	mg/l	0.2	1
22.	Arsenic as As	IS:3025 (Part-37)	BDL (DL 0.02)	mg/l	0.01	No Relaxation
23.	Mercury as Hg	IS:3025 (Part-48)	BDL (DL 0.002)	mg/l	0.001	No Relaxation
24.	Selenium as Se	IS:3025 (Part-56)	BDL (DL 0.001)	mg/l	0.01	No Relaxation
25.	Cadmium as Cd	IS:3025 (Part-41)	BDL (DL 0.005)	mg/l	0.003	No Relaxation
26.	Lead as Pb	IS:3025 (Part-47)	BDL (DL 0.002)	mg/l	0.01	No Relaxation
27.	Zinc as Zn	IS:3025 (Part-49)	BDL (DL 0.008)	mg/l	5	15
28.	Manganese as Mn	IS:3025 (Part-59)	BDL (DL 0.1)	mg/l	0.1	0.3
29.	Copper as Cu	IS:3025 (Part-42)	BDL (DL 0.08)	mg/l	0.05	1.5

Note: BDL- Below Detection Limit, DL- Detection Limit

Page No. 2 of 2

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TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250616016/N
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 54" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 250 ml

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	Odour	IS:3025 (Part-5)	Agreeable	-	Agreeable	Agreeable
2.	Total Coliform	IS 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample	
3.	E-Coli	IS 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample	

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Kumari Bhumika

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Vineet Kumar

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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250923016
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Baghahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 54" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS:3025 (Part-11)	7.51	-	6.5 to 8.5	No Relaxation
2.	Colour	IS:3025 (Part 4)	BDL (DL 1.0)	Hazen Unit	5	15
3.	Odour	IS:3025 (Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025 (Part-8)	Agreeable	-	Agreeable	Agreeable
5.	Turbidity	IS:3025 (Part-10)	BDL (DL 1.0)	NTU	1	5
6.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	421.0	mg/l	200	600
7.	Calcium as Ca	IS:3025 (Part-40)	80.64	mg/l	75	200
8.	Magnesium	IS:3025 (Part-46)	53.46	mg/l	30	100
9.	Chloride as Cl	IS:3025 (Part-32)	36.18	mg/l	250	1000
10.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	296.0	mg/l	200	600
11.	Residual Chlorine	IS:3025 (Part-26)	BDL (DL 0.2)	mg/l	0.2	1.0
12.	Cyanide	IS:3025 (Part-27) sec 1	BDL (DL 0.02)	mg/l	0.05	No Relaxation
13.	Total Dissolved Solid	IS:3025 (Part-16)	588.0	mg/l	500	2000
14.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	96.33	mg/l	200	400
15.	Fluoride as F	APHA 24th Edition, 4500-F- D	0.62	mg/l	1	1.5
16.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	1.12	mg/l	45	No Relaxation
17.	Iron	IS:3025 (Part-53)	0.09	mg/l	1	No Relaxation

Page No. 1 of 3

Srishti
Checked by
Srishti Mehta



Reviewed & Authorized by
Pallavi Verma

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Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
Phase-IV, Gurugram-122015 (Haryana)
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61,Gurugram-122011(Haryana)



TEST REPORT

Sample Number: JME/PJCL/W/16

Report No.: JME/W/250923016

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
18.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	BDL (DL 0.001)	mg/l	0.001	0.002
19.	Anionic Surfactant	APHA 24th Edition, 5540-C	BDL (DL 0.02)	mg/l	0.2	1
20.	Hexa Chromium as Cr6+	IS:3025 (Part-52)	BDL (DL 0.03)	mg/l	-	-
21.	Boron as B	IS:3025 (Part-57)	BDL (DL 0.2)	mg/l	0.5	2.4
22.	Aluminium	IS:3025 (Part-55)	BDL (DL 0.03)	mg/l	0.03	0.2
23.	Arsenic	IS:3025 (Part-37)	BDL (DL 0.002)	mg/l	0.01	No Relaxation
24.	Mercury	IS:3025 (Part-48)	BDL (DL 0.001)	mg/l	0.001	No Relaxation
25.	Selenium	IS:3025 (Part-56)	BDL (DL 0.005)	mg/l	0.01	No Relaxation
26.	Cadmium	IS:3025 (Part-41)	BDL (DL 0.002)	mg/l	0.003	No Relaxation
27.	Lead	IS:3025 (Part-47)	BDL (DL 0.008)	mg/l	0.01	No Relaxation
28.	Zinc	IS:3025 (Part-49)	BDL (DL 0.1)	mg/l	5	15
29.	Manganese	IS:3025 (Part-59)	BDL (DL 0.08)	mg/l	0.1	0.3
30.	Copper	IS:3025 (Part-42)	BDL (DL 0.02)	mg/l	0.05	1.5

Note: BDL- Below Detection Limit, DL- Detection Limit

Page No. 2 of 3

Srishti
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Ext. Road, Sector-61, Gurugram-122011(Haryana)



TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250923016
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 54" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 250 ml

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012
1.	Total Coliform	IS: 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample
2.	E-Coli	IS: 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample

Page No. 3 of 3

Checked by
vineet Kumar

Checked by
vineet Kumar



Reviewed & Authorized by
Kumari Bhumika

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30 years of success Recognized by CPCB under EP Act-1986, Certified by ISO-9001:2015, 14001:2015 & 45001:2018



TC-6821

TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited.
(Unit- Cement Division) At Village- Mankahari,
PO- Bathia, Dist-Satna, Madhya Pradesh.** Report No.: **JME/WL/250609001**

Ref. No.: **Nil**Date of Reporting: **09/06/2025**Sample Description: **Ground Water Level Monitoring** Receipt Date: **05/06/2025**Client Representative **Mr. Sumitabh Dwivedi**
(Name & Designation): **(Assistant General Manager- Environment)** Sample collected by: **JMEPL Team**

GROUND WATER LEVEL (IN METERS)

S. No.	Location	Date of Monitoring	Type of Well	Water Level (m bgl)
1.	Near Colony Gate	03/06/2025	Piezo Well	18.06
2.	Front of Den	03/06/2025	Piezo Well	8.59
3.	Behind B-Block Colony	03/06/2025	Piezo Well	19.51
4.	Behind C-Block colony	03/06/2025	Piezo Well	9.86
5.	New Magazine Mines	03/06/2025	Piezo Well	15.3
6.	Ramprasan Mines	03/06/2025	Piezo Well	16.22
7.	Western Block Mines	03/06/2025	Piezo Well	9.35
8.	Medhi Mine's	03/06/2025	Piezo Well	13.38
9.	Near Auto Work Shop	03/06/2025	Piezo Well	12.65
10.	Rose Garden Near Road	03/06/2025	Piezo Well	22.81

Page No.1 of 1

Checked by
Abhishek Tiwari

Reviewed & Authorized by
Rajendra Yadav

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Emara Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011 (Haryana)



TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited.
(Unit- Cement Division) At Village- Mankahari,
PO- Bathia, Dist-Satna, Madhya Pradesh.** Report No.: **JME/WL/250929001-011/N**
Ref. No.: **Nil**

Sample Description: **Ground Water Level Monitoring** Date of Reporting: **03/10/2025**
Client Representative **Mr. Sumitabh Dwivedi** Receipt Date: **29/09/2025**
(Name & Designation): **(Assistant General Manager- Environment)** Sample collected by: **JMELPL Team**

GROUND WATER LEVEL (IN METERS)

S. No.	Location	Date of Monitoring	Type of Well	Water Level (m bgl)
1.	Near Colony Gate	26/09/2025	Piezo Well	4.55
2.	Front of Den	26/09/2025	Piezo Well	2.72
3.	Behind B-Block Colony	26/09/2025	Piezo Well	1.35
4.	Behind C-Block colony	26/09/2025	Piezo Well	1.34
5.	New Magazine Mines	26/09/2025	Piezo Well	14.32
6.	Ramprasan Mines	26/09/2025	Piezo Well	7.5
7.	Western Block Mines	26/09/2025	Piezo Well	6.18
8.	Medhi Mine's	26/09/2025	Piezo Well	3.4
9.	Near Auto Work Shop	26/09/2025	Piezo Well	4.36
10.	Rose Garden Near Road	26/09/2025	Piezo Well	5.93
11.	Badarkha Mines	26/09/2025	Piezo Well	6.35

Page No.1 of 1

Srishti
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Srishti Mehta



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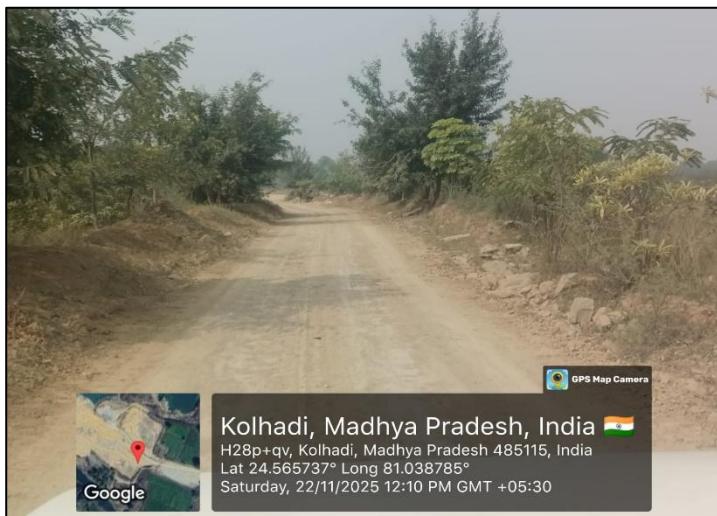
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Annexure 8: Photographs of the plantation along the habitation

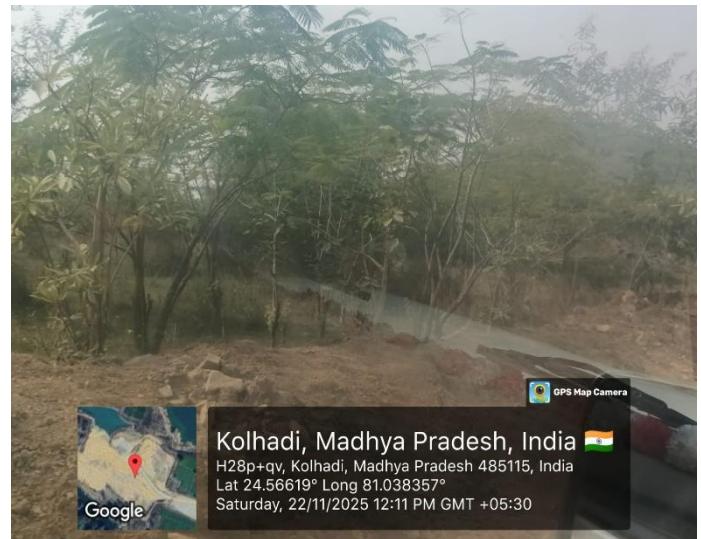




Annexure 9: Photographs of fog cannon



Annexure 10: Photographs of the peripheral plantation



Annexure 11: Action Plan

Public Hearing dated 4th Feb, 2022 at Baghai Limestone Mine of M/s. Prism Johnson Limited, Satna
Proposed Physical targets for addressing issues of during public hearing as per MoEF&CC, OM dated 30.09.2020 & 20.10.2020

S. No.	Activities	Budget (Rs. In Lakh)	Year wise Budget (Rs. In Lakh)			Recurring Cost (Rs. In Lakh)
			Year-1 (FY 22-23)	Year-2 (FY 23-24)	Year-3 (FY 24-25)	
Infrastructure Development						
1	Boundary wall construction of Primary School in Medhi Village (250 Feet Length and 5 feet Height)	5.0	5.0	-	-	-
2	Community Sochalaya Development in Baghai Village	2.0	2.0	-	-	0.50
3	Solar Street light in Villages Baghai (10), Bairiha (10), Sijhata (7), Tapa (5), Satri (5), Medhi (3) (Total 40 Solar Street Lights)	10.0	Baghai & Bairiha 5.0	Sijhata & Tapa 3.0	Satri & Mendhi 2.0	0.50
4	Development of playground in Sijhata Village Sports Complex development at Baghai Village	15.0 30.0	Playground Development 15.0	Sports Complex Development 30.0	-	-
Education						
5	Computers and Internet Facilities, Smart boards -4 in Govt. Schools of Baghai-5, Bairiha-5, Sijhata-2, Tapa-3 (Total No. 15) Arrangement of teachers for the subjects of English, Computer, Sports & Science in Baghai School	10.0 10.0	Computers with Internet Facilities, Smart boards in Govt. Schools of Baghai, Bairiha, Sijhata, Tapa 10.0	Arrangement of teachers for the subjects of English, Computer, Sports & Science in Baghai School 10.0	-	0.60
6	Provision of Drinking water facilities in Villages Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi (One Borewell in each Village)	12.0	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	-
7	Skill Development Employment based training like Driving training, Motor Mechanic, Mobile Repairing, Electric Motor Binding etc. for Youth in Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi	12	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	1.00
8	Awareness and training to farmer for increase cash crops & agriculture production, modem practices, good quality seeds etc.	6.0	Baghai & Bairiha 2.0	Sijhata & Tapa 2.0	Satri & Mendhi 2.0	2.00
Plantation in Nearby Areas						
9	Plantation along the road side in Villages i.e. - Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi (1000 Species in each Village Total nos. of saplings 6000)	12.0	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	2.0
Healthcare Facilities						
10	Sub - Health Center Development in Baghai Village Health care facilities for COVID at Rampur Baghelan for needful medical equipment and mass- awareness program in villages	50.0 25.0	10.0	50.0 10.0	5.0	-
11	Sanitary Napkin Awareness training and 10 Sanitary Napkin Machine to be provide in Baghai, Sijhata and Bairiha villages	3.0	3.0	-	-	1.5
	Total	202.0	64.0	117.0	21.0	8.10

Annexure 12: Boundary of Medhi Primary School





Smart Board with Solar Backup

Annexure 14: Photographs of Single Use plastic (SUP)

PRISM
CEMENT
दूर की सोच

PRISM JOHNSON LIMITED

PRISM
CEMENT
दूर की सोच

World Environment Week 2025

STOP SINGLE USE PLASTIC AWARENESS PROGRAM

• 31 May 2025 •

Useful for minute,
harmful for decades!



for any querry, please contact: Env Dept. CCR Building

- Plastic bottle take 450 years & polythene bag takes 200 years to break down.
- Plastic is harmful to all living beings and a danger to our environment.
- Cotton/Jute Bags are distributed to all colony ladies, kindly keep it while shopping.
- Spread awareness & be a part of change.
- Polythene bags are strictly prohibited in shopping centers, otherwise fined.



Annexure 15: Skill Development program











Deotale Diagnostic Centre

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chouk Nagpur

For any assistance call at . 9860204241, 0712-2424868

Email ID : deotaleddeepak19577@gmail.com

MEDICAL CHECK-UP REPORT

SR NO.	157
Certificate No	166
EMP CODE	102702
Work Station /Grade	BAGHAI MINES
Designation	ASST. MANAGER
MOB NO	9584460761
CHECK-UP DATE	13-12-24

EMPLOYEES NAME: ATUL KUMAR TIWARI

Gender: MALE	Age : 57 Yrs	Ht : 160 cms	BMI : 25.39	Wt: 65 Kg
Company Address: PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, TEHSIL: RAMPUR BAGHAN, DIST: SATNA, PIN:485111 (M.P.)				
Personal H/O:	ALCOHOL: NO	TABACCO: NO	SMOKING: NO	GUTKHA: NO
General Exam:-	Healthy	BP : 150/100 mmHg	PLUSE : 100 mm/hr	
C.V.S.: N	R/S : N	CNS : N	SP/LIVER : N/P	

Abdomen : soft

BLOOD TEST

Test	Result	Normal Range
Blood Sugar	123 mg/dl	70-160 mg/dl
Hemoglobin	12.9 gm/dl	12.5 to 16.5 gm/dl
Total Leukocyte Count	7900 Cumm	4000-11000 /Cumm
Neutrophils	68 %	40-80 %
Lymphocyte	30 %	20-40 %
Eosinophils	1 %	1-6 %
Monocytes	1 %	2-10 %
ESR	5 mm/hr	< 20 mm/hr
Cholesterol	187 mg/dl	< 220 mg/dl
Triglycerides	166 mg/dl	> 200 mg/dl
HDL	42 mg/dl	35 TO 50 mg/dl
LDL	111.8 mg/dl	
VLDL	33.2 mg/dl	
CHO/HDL Ratio:	4.5	
Urea	30 mg/dl	10-50
Creatinine	1 mg/dl	0.8-1.3
SGPT	24 U/L	0-40
SGOT	28 U/L	0-40
S/UTUM AFB	NEGATIVE	
STOOL	NEGATIVE	
Colour Blindness	NO	
ECG	WNL	
X-Ray	WNL	
AUDIOMETRY	RT : WNL	Spirometry WNL
Vision:	Unaided - Dist. Rt - /18 Unaided - Near Rt - N/36 With Spect Dist. Rt - 6/6 With Spect Near . Rt - N/6	Dist. Lf - 6/18 Near Lf - N/36 With Spect Dist . Lf - 6/6 With Spect Near . Lf - N/6

MEDICAL CHECK - UP:- NORMAL

Opinion: He/She is physically & mentally fit . He/She is not suffering from any infectious or contagious diseases

Dr. DEEPAK P. DEOTALE
M.B.B.S. A.F.I.H. (Reg. No. 48366)Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

(FORM - O)

(See rule 29F (2) and 29L)

Report of medical examination under rule 29B (To be issued in triplicate)

** Certificate No. 166..... Certified that Shri/Shrimati* Atul Tilwani.....
 employed as Asst manager in Baghia..... mine,
 Form B No..... has been examined for an initial/periodical medical
 examination. He/she* appears to be..... 57..... years of age.

The findings of the examining authority are given in the attached sheet. It is considered
 that Shri/Shrimati*..... Atul Tilwani.....

(a)* is medically fit for any employment in mines.

(b)* is suffering from..... and is medically unfit for

- (i) any employment in mine; or
- (ii) any employment below ground; or
- (iii) any employment or work.....

(c)* is suffering from..... is should get this disability* cured/controlled
 and should be again examined within a period ofmonths. He/She will appear
 for re-examination with the result of test of and the opinion of
 Specialist from He/She may be permitted/not* permitted to carry on his
 duties during this period.



DR. DEEPAK P. DEOTALE

Signature of the examining authority
 Name and designation in Block letters

Place : Pc L

Date : 13/12/24

* Delete whatever is not applicable.

** One copy of the certificate shall be handed over to the person concerned and
 another copy shall be sent to the manager of the mine concerned by registered post;
 and the third copy shall be retained by the examining authority,

Report of the examining authority

(to be filled in for every medical examination whether initial or periodical or re -
 examination or after cure/control of disability).

Annexure to Certificate No. 166..... as result of medical examination on

Identification Mark..... Male on face Right side

Left thumb impression of the candidate

1. General development- Good/Fair/Poor

2. Height 165 Cms.

3. Weight 65 kg.

4 Eyes : (i) Visual acuity-Distant vision (with or without glasses).

Right eye..... 6/18 Left eye..... 6/18

(ii) any organic disease of eyes No

(iii) night blindness No

(iv) Colour blindness No

(v) Squint (* to be tested in special cases)

Inserted vide notification No.GSR 656 dated 5.6.1980 No

5 Ears : Hearing : Right ear..... N Left ear ... N

Any organic diseases. No

6. Respiratory system. Chest measurement : (i) After full inspiration cms.
(ii) After full expiration cms.

7. Circulatory system: (i) Blood Pressure .. 150/100 (ii) Pulse ... 100

8. Abdomen : Tenderness No
Liver. NP
Spleen. NP
Tumour. No

9. Nervous system:

History of fits or epilepsy No
Paralysis No
Mental health. 70%

10. Locomotory system : Normal

11. Skin. : normal

12. Hydrocele. : No

13. Hernia. : No

14. Any other abnormality : Normal

15. Urine : Reaction N
Albumin. N
Sugar..... N

16. Skiagram of chest. : WNL

17. Any other test considered necessary by the examining authority. : No

18. Any opinion of specialist considered necessary. No

Signature of the examining authority

✓

Place:

Report of Medical Examination under Mines Rule 29B
(To be used in continuation with Form O)

Certificate No. 166

Name: Atul Tiwari

Identification Marks: male on face Right side

Result of Lung Function Test (Spirometry)

Parameters	Predicted Value	Performed Value	% of Predicted
Forced Vital Capacity (FEV)	02.71	03.20	118
Forced Vital Capacity FEV1	02.07	03.14	152
FEV 1/ FVC	76.38	98.12	128
Peak Expiratory Flow	07.59	04.59	61

Spirometry Report enclosed.

Signature of the Examination Authority

Report of Medical Examination as per the recommendations of National Safety
Conferences in Mines
(To be used in continuation with Form O)

Certificate No. 166

Name: Atul Tiwari

Identification Marks: male on face Right side

1. Cardiological Assessment

Auscultation	S1	N	Performed Value	% of Predicted
	S2	N		
	Additional Sound	No		
FEV1/ FVC			98.12	128
Electrocardiograph(12leads) findings			Normal/Abnormal	

Enclosed ECG

2. Neurological Assessment

Findings	Normal/Abnormal
Superficial Reflexes	Normal
Deep Reflexes	N
Peripheral Circulation	N
Vibrational Syndromes	N

3. ILO Classification of Chest Radiograph

Profusion of Pneumoconiotic Opacities	Grades	Types
Present /Absent		

Enclosed Chest Radiograph

4. Audiometry Findings:

Conduction Type	Left Ear	Right Ear
Ear Conduction	Normal/Abnormal	Normal/Abnormal
Bone Conduction	Normal/Abnormal	Normal/Abnormal

Enclosed Audiometry Report

5. Pathological/Microbiological Investigations:

S.No.	Tests	Findings
1.	Blood-Tc,Dc,Hb,ESR,Platelets	WNL/Abnormal
2.	Blood Suger-Fasting & P.P.	WNL/Abnormal
3.	Lipid Profile	WNL/Abnormal
4.	Blood Urea, Creatinine	WNL/Abnormal
5.	Urine Routine	WNL/Abnormal
6.	Stool Routine	WNL/Abnormal

Enclosed Investigation Reports

6. Special Tests for Mn Exposure:

Behavioral Disturbances		Present/Not Present
Neurological Disturbances	Speech Defect	Present/Not Present
	Tremor	Present/Not Present
	Adiadiocokinesia	Present/Not Present
	Emotional Changes	Present/Not Present

Enclosed ECG

7. Any other Special Tests Required: *No*

Signature of the Examination Authority
Seal

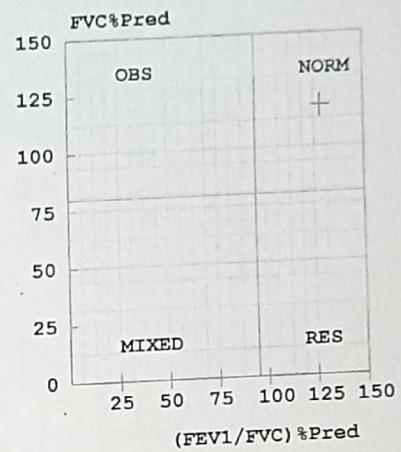
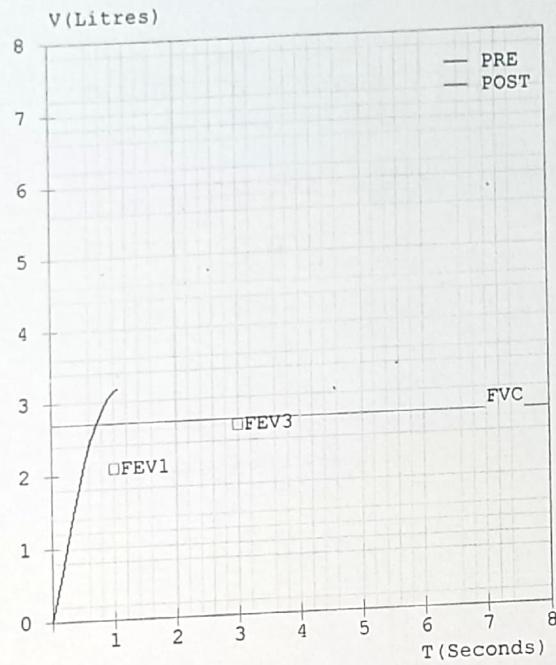
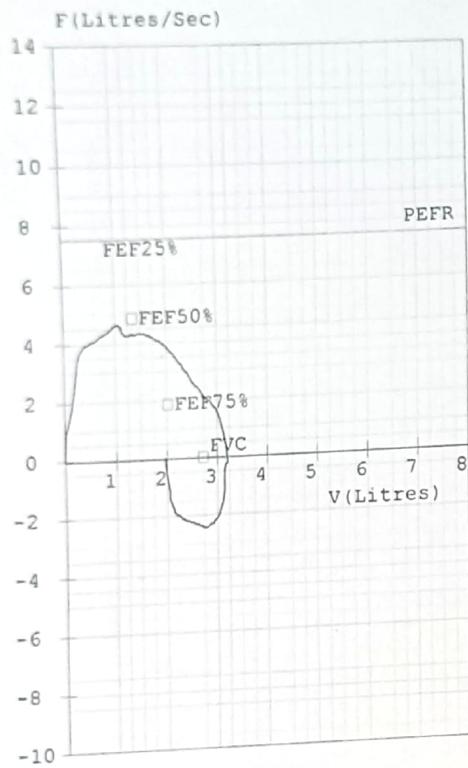
Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

ATUL KUMAR
Ins: RECORD
13-12-20

F(Litres)
4
12
10

pt: ATUL KUMAR TIWARI
By:
d.Eqns: RECORDERS
te : 13-12-2024 10:54:24

Age : 57 Years Gender : Male
Height : 160 Cms Smoker : No
Weight : 65 Kgs Eth. Corr: 100
ID: PR 166 Temp : degrees



Parameter	FVC Results				
	Pred	M.Pre%Pred	M.Post %Pred	%Imp	
FVC (L)	02.71	03.20	118	-----	-----
FEV1 (L)	02.07	03.14	152	-----	-----
FEV1/FVC (%)	76.38	98.12	128	-----	-----
FEF25-75 (L/s)	02.98	03.94	132	-----	-----
PEFR (L/s)	07.54	04.59	061	-----	-----
FIVC (L)	-----	01.23	---	-----	-----
FEV.5 (L)	-----	02.07	---	-----	-----
FEV3 (L)	02.63	03.20	122	-----	-----
PIFR (L/s)	-----	02.42	---	-----	-----
FEF75-85 (L/s)	-----	02.45	---	-----	-----
FEF.2-1.2 (L/s)	05.22	03.98	076	-----	-----
FEF 25% (L/s)	07.19	04.28	060	-----	-----
FEF 50% (L/s)	04.85	04.22	087	-----	-----
FEF 75% (L/s)	01.88	02.92	155	-----	-----
FEV.5/FVC (%)	-----	64.69	---	-----	-----
FEV3/FVC (%)	97.05	100.00	103	-----	-----
FET (Sec)	-----	01.14	---	-----	-----
ExplTime (Sec)	-----	00.14	---	-----	-----

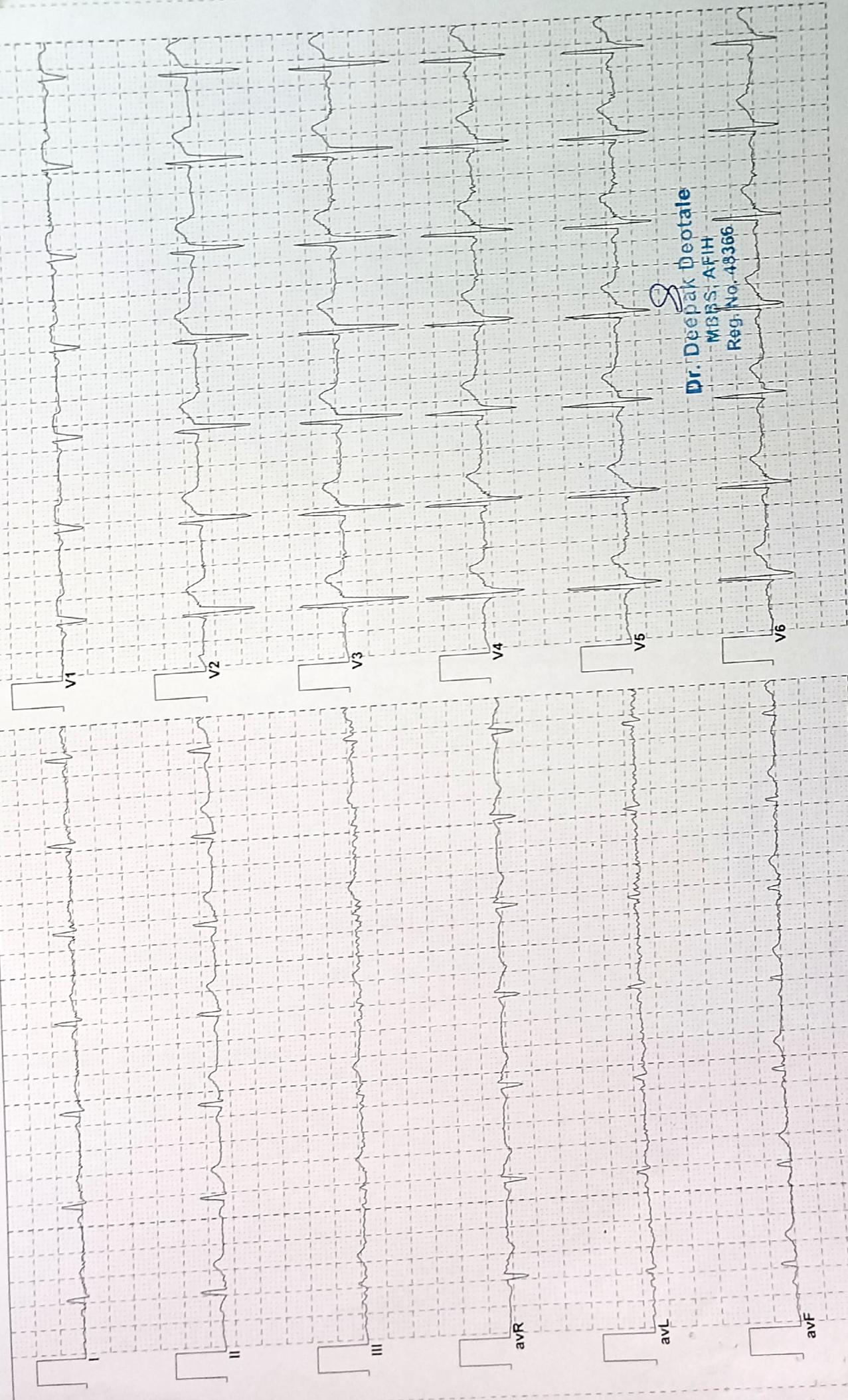
Pre Medication Report Indicates Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70. Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80.

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

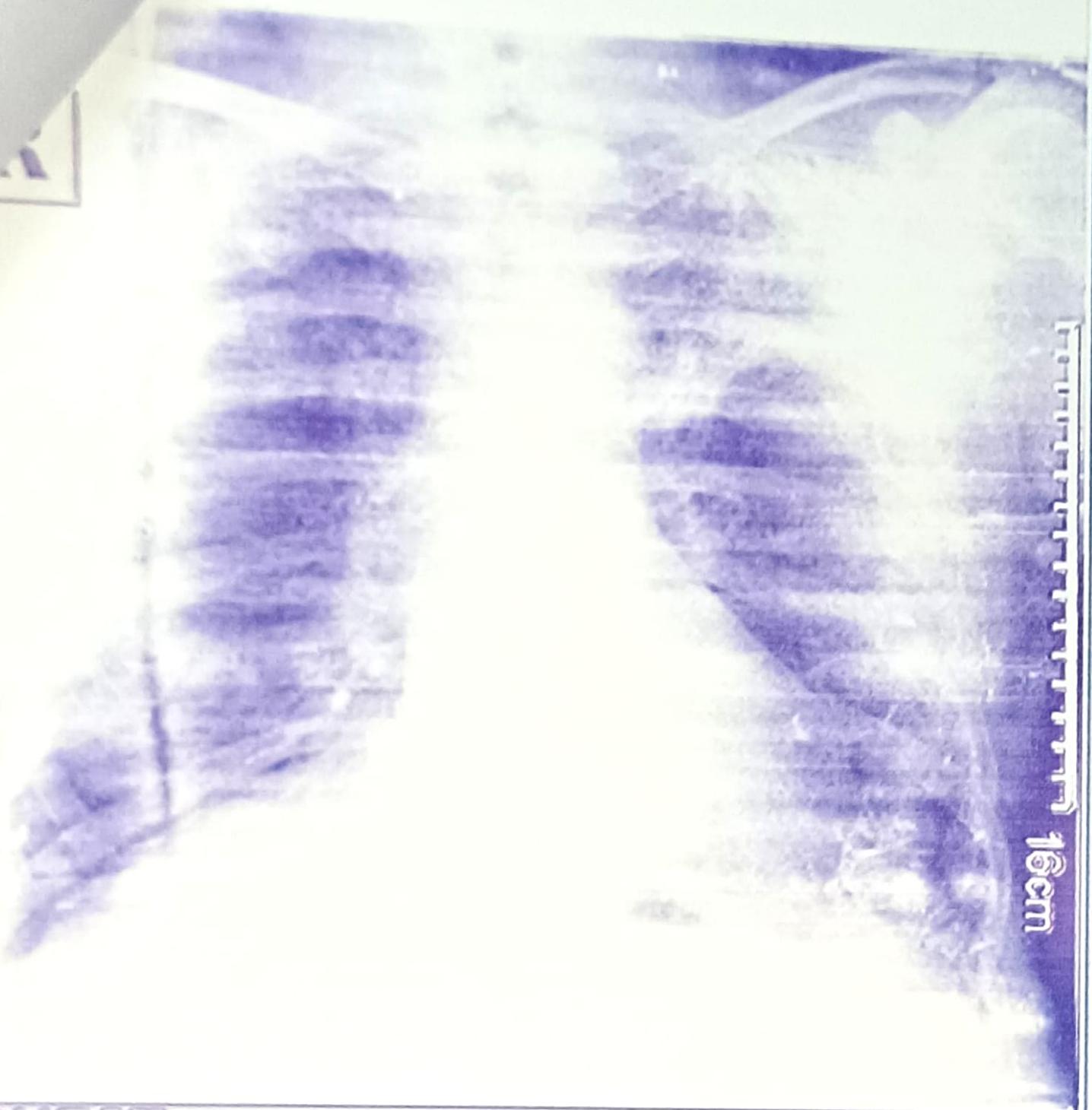
DEOTALE DIAGNOSTIC CENTRE

1940042347 / ATUL KUMAR TIWARI / 57 Yrs / M / 160Cms. / 65Kgs. / Non Smoker
Heart Rate : 90 bpm / Dr. DEEPAK DEOTALE Tested On : 13-Dec-24 11:09:36 / HF 0.05 Hz / LF 100 Hz / Notch 50 Hz / Sn 1.00 Cm/mV / Sw 25 mm/s

AGHPL
ECG



Acq. Date: 13-Dec-24
Acq. Time: 11:01:42 AM
Exp. Index: 735



CHEST

PA

N: 4096, C: 2048

Scale: 0.13

MAYA DIAGNOSTICS

Deotale Diagnostic

(we care)

■ Consultation ■ Diagnostics ■ Health Check- Up ■ Immunization.
Clinic: Vinayak Apt. 3rd floor Dhandoli Lokmat Chowk Nagpur

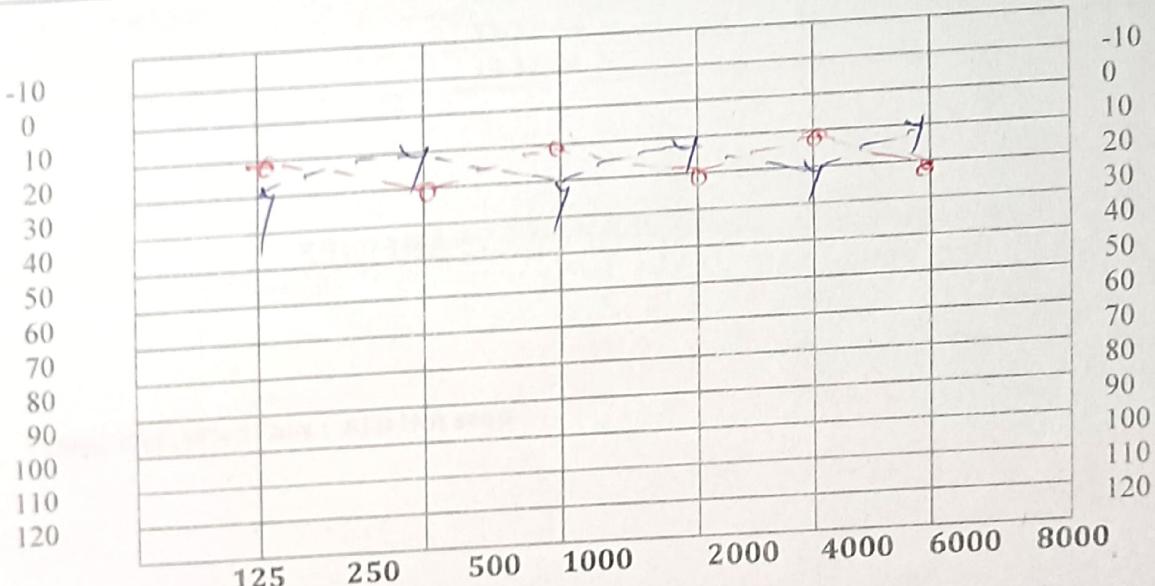
(Clinic Reg. No. 699)

For any assistance call at . 9860204241, 0712-6610595

Date: 13-12-24

AUDIOLOGICAL EVALUATION

1. SR. NO. 157	2. CERTIFICATE NO : 166
3. EMPLOYEES NAME : ATUL KUMAR TIWARI	
4. Employee Mob No : 9584460761	
6. SEX : MALE	7. AGE : 57 yrs
8. ADDRESS : PRISM JOHNSON LIMITED, MANKAHARI, PO: BATHIA, TEHSIL: RAMPUR BAGHELAN, DIST: SATNA, PIN: 485111 (M.P.)	
9. DIAGNOSIS LT. : WNL	RT. : WNL



TEST FREQUENCY

Air O	= LEFT EAR : ●	WNL
Y	= RIGHT EAR : ●	WNL
Masking		
No Response: Audiologists Remarks		


Dr. DEEPAK P. DEOTALE
M.B.B.S. A.F.I.H.
Reg. No. 48366

Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

Deotale Diagnostic Centre (we care)

Consultation Diagnostics Health Check- Ups Immunization.

Clinic: Vinayak Apt. 3rd floor Dhantoli Lokmat Chouk Nagpur

For any assistance call at. 9860204241, 0712-2424868

Email ID : deotaledeepak19577@gmail.com

Patient Name:	ATUL KUMAR TIWARI
Age :	57 yrs
Gender:	MALE
Req. Doctor:	
Reg . Number:	9584460761
Collection Date:	13-12-24
Reporting Date :	13-12-24

SPUTUM EXAMINATION

ZEIHL NEELSEN STAIN : AFB Not seen


DR. DEEPAK DEVATALE
M.B.B.S A.F.I.H (REG NO.48366)
Dr. Deepak Deotale
MBBS, AFIH
Reg. No. 48366

SR. No.

157

Certificate No.

166

Emp Code

102702

MAYA HOSPITAL

& RESEARCH INSTITUTE

Add.: Plot .P 78, Opposite State Bank of India , M.I.D.C.

Butibori (Nagpur)

Ph 07103-684885

Deotale Diagnostic Center We Care

Consultation Diagnostics Health Check-Ups Immunization

Dr. Deepak P. Deotale	Name	ATUL KUMAR TIWARI
M.B.B.S., A.F.I.H.	Age	57 YRS.
(Associated fellow Of industrial health)	Gender	MALE
Certifying Surgeon Reg .No. 48366	Check Up Date	13-12-24
Clinic : Vinayak Apt. 3 rd floor Dhantoli, Lokmat Chowk ,Nagpur (Clinic Reg. No. 699)	MOB NO	9584460761
Company Name: PRISM JOHNSON LIMITED, MANKAHARI,PO: BATHIA, TEHSIL: RAMPUR BAGHELAN, DIST: SATNA,PIN:485111 (M.P.)		
Email Id:deotaledeepak19577@gmail.com		

ENVIRONMENTAL
CLEARANCE

PARIVESH
*(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)*



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

To,

The Asst VP Mines

PRISM JOHNSON LTD.

Village mankhari, PO bathia, Tehsil Rampur- baghelan, District- Satna
MP,,Satna, Madhya Pradesh-485111

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

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MP/MIN/403008/2022 dated 29 Mar 2023. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC23A001MP123527
2. File No.	J-11015/25/2019-IA.II(M)
3. Project Type	Expansion
4. Category	A
5. Project/Activity including Schedule No.	1(a) Mining of minerals
6. Name of Project	Expansion In Limestone Production Capacity From 1.3 Million TPA To 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and Installation Of New Crusher Of 1200 TPH Capacity (ML Area: 512.317 Ha) at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh
7. Name of Company/Organization	PRISM JOHNSON LTD.
8. Location of Project	Madhya Pradesh
9. TOR Date	N/A

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

Date: 15/05/2023

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

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

This is a computer generated cover page.

F. No. J-11015/25/2019-IA. II(M)
Government of India
Ministry of Environment, Forest and Climate Change
Impact Assessment Division

3rd Floor, Vayu Wing,
Indira Paryavaran Bhavan,
Jor Bagh Road, Aliganj,
New Delhi-110 003

Dated: 15th May, 2023

To,

M/s Prism Johnson Ltd,
Village Mankahari, PO Bathia,
Tehsil Rampur- Baghelan,
Satna – 485111, Madhya Pradesh.

Subject: - Expansion in Limestone Production Capacity of M/s Prism Johnson Ltd from 1.3 Million TPA to 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and installation of new crusher of 1200 TPH Capacity in the mine lease area of 512.317 ha, located at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh - Environmental Clearance (EC) regarding

Sir,

This has reference to the online proposal no. IA/MP/MIN/403008/2022 for mining of Limestone for Expansion in Limestone Production Capacity of M/s Prism Johnson Ltd from 1.3 Million TPA to 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and installation of new crusher of 1200 TPH Capacity in the mine lease area of 512.317 ha, located at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh.

2. The details of the project as ascertained from the documents submitted by the Project Proponent and as revealed from the discussions held during the meeting are given as under:

- i. The mine lease area is located between Latitude: 24°32'46.4" N to 24°34'37.8" N and Longitude: 81°02'01.1" E to 81°04'47.9" E. The mine lease area falls under the Survey of India Toposheet No. G44U14 & G44V2 and falls in Seismic Zone-II.
- ii. The proposed project activity is listed at Schedule no. 1(a) Mining of Minerals of the schedule of the EIA Notification, 2006 and falls under Category "A" as the mining lease area is greater than 250ha and appraised at the Central level.

iii. Details of Previous Environmental Clearance (EC):

Date of application	File No/ Proposal No	Consideration by EAC	Details of EC		Date of accord
27.05.2008	J-11011/	-	Integrated	Environmental	22.09.2008


EC- M/s Prism Johnson Ltd, Madhya Pradesh

Page 1 of 24

	949/2007- IA.II (I) IA/MP/IND/ 19733/2008		Clearance (EC) for Clinker Production Unit (3.0 MTPA), Cement (6.7 MTPA) and Mines (Hinouti & Sijhata I – 772.067 ha, Hinouti & Sijhata II – 99.416 ha, Mendhi – 117.594 ha and Baghai – 512.317 ha) at Makahari, PO Bathia, District Satna, MP by M/s Prism Cement Ltd (Line-II)	
08.05.2020	J-11011/ 949/2007- IA.II(I) IA/MP/IND/ 152775/2020	-	Name change in Environmental Clearance from M/s Prism Cement Ltd (Line-II) to M/s Prism Johnson Ltd.	29.07.2020

iv. Details of Terms of Reference (ToR):

Date of application	File No/ Proposal No	Consideration by EAC	Details of ToR	Date of accord
06.12.2018	IA-J-11015/ 25/ 2019-IA- II(M) IA/MP/MIN/ 87816/2018	February 20-21, 2019	Terms of Reference (ToR) for Expansion in Limestone Production Capacity from 1.3 Million TPA to 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and installation of new crusher of 1200 TPH Capacity in the mine lease area of 512.317 ha, by M/s Prism Johnson Ltd, located at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh	27.10.2020

v. Land Use/Land Cover of the Mine Lease Area:

Private land	511.246
Government land	1.071
Forest land	Nil
Total Mining lease area (MLA), ha	512.317
Private land for crusher, workshop & other infrastructure outside the MLA	No infrastructure is proposed outside the MLA area

vi. Details of Mine Lease Area:

- The Project Proponent has submitted that initially Letter of Intent (LoI) was issued vide letter no 3-07/2006/12/2 dated 08.08.2006 over an area of 512.317 ha in favour of M/s. Prism Cement Ltd.

- b) Then, the Mining Lease was granted by the State Govt. vide letter no. F3-07/06/12/1 Bhopal dated 16.09.2008 in favour of M/s. Prism Cement Ltd.
- c) Mining Lease deed was executed on 14.02.2011 effective from 28.02.2011 for the period of 30 years till 27.02.2041.
- d) Thereafter name of Company was changed from M/s. Prism Cement Ltd. to M/s. Prism Johnson Ltd. vide letter no 4397/1825/2018/12/1 dated 20.09.2018. Subsequently, amendment was done in the lease deed in the name of M/s. Prism Johnson Ltd.

vii. Mining Plan Details:

Review of Mining Plan including Progressive Mine Closure Plan approved by Indian Bureau of Mines (IBM)	Letter No.	MP/Satna/Limestone/RMP-57/2020-21																											
	Date	09.04.2021																											
	Mineral & (Major/Minor)	Limestone																											
	Mine Lease Area, Ha	512.317																											
	Validity	2021-22 to 2025-26																											
Mining Parameters	Quantitative Description																												
Method of Mining	Fully-Mechanized Opencast Method																												
Drilling/Blasting	<table border="1"> <thead> <tr> <th>S. No.</th> <th>Particular</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Bench height (m)</td> <td>6-8 m</td> </tr> <tr> <td>2.</td> <td>Bench Width (m)</td> <td>18 m</td> </tr> <tr> <td>3.</td> <td>Drill hole dia</td> <td>(100-115) mm</td> </tr> <tr> <td>4.</td> <td>Depth of hole</td> <td>8 m</td> </tr> <tr> <td>5.</td> <td>Burden</td> <td>3 m</td> </tr> <tr> <td>6.</td> <td>Spacing</td> <td>4 m</td> </tr> <tr> <td>7.</td> <td>Tonnage per hole</td> <td>240 Tonne</td> </tr> <tr> <td>8.</td> <td>Powder Factor</td> <td>5.75 Tonne/Kg</td> </tr> </tbody> </table>		S. No.	Particular	Details	1.	Bench height (m)	6-8 m	2.	Bench Width (m)	18 m	3.	Drill hole dia	(100-115) mm	4.	Depth of hole	8 m	5.	Burden	3 m	6.	Spacing	4 m	7.	Tonnage per hole	240 Tonne	8.	Powder Factor	5.75 Tonne/Kg
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7.	Tonnage per hole	240 Tonne																											
8.	Powder Factor	5.75 Tonne/Kg																											
Geological Reserves	42.416 Million Tonnes																												
Mineable Reserves	30.856 Million Tonnes																												
Breakup of Total Excavation (Topsoil/OB/SB/IB/Mineral Rejects/ Waste, MTPA)	Top Soil: 2.322 Million TPA OB/SB/IB: 5.590 Million TPA Total Excavation: 12.912 Million TPA Limestone Production Capacity from 1.3 Million TPA to 5.0 Million TPA																												
Life of mine	~21 years (Based on planning)																												
Mine Bench Height & Bench Width	6-8 m & 18 m																												
No. of Mine Benches	5																												
Existing Depth, m bgl	271 m AMSL (31m bgl considering 302m AMSL)																												
Ultimate Depth of Mining, m bgl	250 m AMSL (55m bgl considering 305m AMSL)																												
Ground Water Table, m bgl	Pre-monsoon: 273 to 276 m AMSL (25-28 m bgl) Post-monsoon: 276 to 281 m AMSL (20-25 m bgl)																												
Details of ground water intersection	Pre-monsoon: 273 to 276 m AMSL (25-28 m bgl) Post-monsoon: 276 to 281 m AMSL (20-25 m bgl) Ultimate working depth of the mining operation will be 250m AMSL (55m bgl- considering 305m AMSL ground level). Therefore, ground water will be intersected due to mining activities.																												

Individual bench slope	80°
Overall pit slope	45°
Details of existing/ proposed Crusher	Installation of new crusher of 1200 TPH capacity
Mineral Beneficiation	The mining process neither involves any wet mineral beneficiation process or any chemical mineral beneficiation process.
RoM output size	Less than 1m x 1m
Transportation details including capacity of dumper/tipper, mode of transport and distance	The Mineral is being transported via road using tippers of 35 T Hyva. The distance between mining lease to cement plant is ~5.3 km.
Generation of Topsoil/OB & its Management during plan period & conceptual period	During plan period total 0.442 million cum (0.707 million tonnes) of top soil & 3.308 million cum (5.292 million tonnes) of OB Soil will be generated. At conceptual stage, total 4.055 million cum (6.488 million tonnes) of soil {including 0.608 million cum of topsoil (0.972 million tonnes) & 3.447 million cum of OB Soil (5.515 million tonnes)} will be generated. Topsoil will be used for greenbelt/plantation & for leveling of backfilled area and OB Soil will be used for backfilling purpose.
Generation of Mineral Rejects/ Waste & its Management during plan period & conceptual period	During plan period total 6.725 million cum (16.812 million tonnes) of waste (waste rock) will be generated. During Conceptual stage, Total 8.878 million cum (22.195 million tonnes) of waste rock will be generated. Entire waste material will be backfilled in the mined out area.

viii. Water requirement:

Total water requirement	90.0 KLD	Fresh water	84.0 KLD
		Treated water	6.0 KLD
Source	Existing water requirement is 50 KLD. Additional water requirement for expansion will be 40 KLD; therefore, total water requirement after expansion will be 90 KLD. Water will be sourced from the ground water & rainwater collected in mine sump.		
Permission for withdrawal/ intersection along with details of grant and its validity	i. Combined NOC for Cement Plant & Mine Leases was obtained from CGWA vide letter no. 21-4(25)/NCR/CGWA/2008-1612 dated 12.09.2017 for the maximum quantity of 1500 KLD. ii. NOC has been obtained vide NOC No. CGWA/NOC/IND/REN/2/2021/6346 dated 12.09.2019 & the same was valid up to 11.09.2022. iii. NOC has been obtained from CGWA vide NOC No. CGWA/NOC/MIN/ORIG/2022/14892 dated 25.03.2022 for ground water abstraction of 487.0 m ³ /day & the same is valid up to 24.03.2024.		

ix. Nearest village/town/ highway/interstate boundary/railway station/water bodies/monument/ forest:

Particular	Particular's Name	Distance & Directions
------------	-------------------	-----------------------

EC- M/s Prism Johnson Ltd, Madhya Pradesh

Identification No. - EC23A001MP123527

File No. - J-11015/25/2019-IA.II(M)

Date of Issue EC - 15/05/2023

Page 4 of 24

Page 5 of 25

Village	Baghai	Habitation of Village Baghai falling in restricted part of the lease area
Town	Satna Rewa	~17 km, West ~21 km, East
Highway	NH- 75	~3.5 km, SSW
Interstate Boundary	None	-
Railway Station/Railway line	Baghai Railway Station	Passing through restricted part of the ML Area
Water Bodies	Canal Jura Nallah Bakna Nallah Mainha Nallah Sharmavati Nallah Magardaha Nallah Nar Nadi Dila Nadi Tons or Tamasa Nadi Kariari Nadi	Passing through the lease area ~1.5 km, South ~2.0 km, SSW ~4.0 km, SSE ~5.5 km, South ~6.0 km, WNW Adjacent, West ~3.0 km, NNE ~ 3.5 km, NW ~8.0 km, East
Forest	Sathari Reserve Forest in 3 patches Jamori Reserved Forest Khanod Jhalwar Reserve Forest	~1.0 km to ~6.5 km ~7.0 km, WNW ~8.5 km, SSW

x. Presence of Environmentally Sensitive areas in the study area:

Forest Land/Protected Area/Environmental Sensitivity Zone	Yes/No	Details of Certificate/letter issued by the concerned Department mentioning the Lr no, date of grant and remarks
Forest Land within the mine lease area and (if yes) status of Forest Clearance	No	No forest land falls within the mine lease area. A Certificate has been obtained from the Principal Chief Conservator of Forest (Wildlife) & Chief Wildlife Warden, Bhopal, MP vide letter no V. Pra./Maa. Chi./GEN-268/2438, dated 15.03.2021.
National Park	No	No National Park, Wild Life Sanctuary, Eco Sensitive Zone (ESZ)/ Elephant/Tiger Reserve, Eco-Sensitive Area (ESA) etc.
Wildlife Sanctuary	No	
Elephant/Tiger Reserve	No	
Eco-Sensitive Zone(ESZ) /Eco-Sensitive Area (ESA)	No	falling within 10 km study area
Coastal Regulation Zone (CRZ)	No	The proposed mine is located in District Satna of State Madhya Pradesh, which is not a coastal zone. Therefore, the proposed mine does not come under purview of CRZ notification.
Schedule-I species (No.s and name of schedule-I species with authenticated letter)	None	None
Wildlife Conservation Plan	-	As per Authenticated list of flora & fauna dated 15.03.2021, there is no Schedule-I species and Wildlife Conservation Plan is not applicable

xi. Green belt/plantation details:

Proposed area for green belt/plantation and no. of saplings proposed	At Conceptual Stage, total area of 197.552 ha will be covered under Greenbelt/plantation (Greenbelt: 9.325 ha, Backfilled: 99.46 ha, Bench Plantation: 21.377 ha, Plantation on safety zone canal, Road, pond, Habitation of restricted area: 67.39 ha).
Budget for green plant& plantation till the end of life of mine.	Rs. 4.93 Crore
Details of existing plantation and its survival rate	An area of 17.58Ha has been covered under Greenbelt &Plantation with 90% survival rate.
No. of tree cuts in the mine lease area and compensatory afforestation	Trees cut during the mining operation are about 140 nos and will try to replant the same in consultation with the experts. Beside this, at conceptual stage, 197.552ha area will be covered under green belt & plantation (Greenbelt: 9.325 ha, Backfilled: 99.46 ha, Bench Plantation: 21.377 ha, Plantation on safety zone of canal, Road including school, Pond, Railway patches, Habitation of restricted area: 67.39 ha).The trees will be planted @ 2500 saplings per ha.
Particulars for Green belt/plantation	Area covered (in Ha)
7.5 m barrier & non-mineralized zone	9.325 ha along 7.5 m ML Periphery
50 m safety zone of nallah, roads, electric lines	57.018 ha
500 m safety zones of nearest habitation villages	10.372ha (50 m safety zone is considered with primary rock breaking)

xii. Baseline detail:

Baseline Data (Air / Water / Noise / Soil / Hydro geological study/ Traffic Study/ others)					
Period of baseline data collection		March to May, 2019 & March to May 2022			
Season (Summer / Pre-monsoon / Post-monsoon / Winter)		Summer season			
Predominant Wind direction (From)		North-West			
Ambient Air Quality (no. of locations) and results	S.No	Parameters	March to May, 2019 (12 locations)	March to May 2022 (8 locations)	Standards ($\mu\text{g}/\text{m}^3$)
	1	PM ₁₀	53.8 to 89.2 $\mu\text{g}/\text{m}^3$	48.8 to 87.2 $\mu\text{g}/\text{m}^3$	100
	2	PM _{2.5}	24.2 to 46.5 $\mu\text{g}/\text{m}^3$	28.0 to 49.1 $\mu\text{g}/\text{m}^3$	60
	3	SO ₂	6.3 to 13.3 $\mu\text{g}/\text{m}^3$	6.0 to 13.0 $\mu\text{g}/\text{m}^3$	80

	4	NO ₂	10.7 to 24.3 $\mu\text{g}/\text{m}^3$	11.8 to 27.1 $\mu\text{g}/\text{m}^3$	80
	5	CO	0.56 to 0.73 mg/m ³	BDL to 0.81 mg/m ³	4 mg/m ³
Noise level (no. of locations) and results	S.No	Parameters	March to May, 2019 (12 locations)	March to May 2022 (8 locations)	Standards dB (A)
	1	Day Time [Leq dB(A)]	51.5 to 62.4	53.1 to 61.5	Industrial: 75 Commercial: 65 Residential: 55 Silence: 50
	2	Night Time [Leq dB(A)]	42.0 to 58.9	42.6 to 51.9	Industrial: 70 Commercial: 55 Residential: 45 Silence: 40
Ground Water Quality (no. of locations) and results	S.No	Parameters	March to May, 2019 (10 locations)	March to May 2022 (8 locations)	Standards
	1	pH	7.03 to 8.10	7.04 to 7.47	6.5 to 8.5
	2	TDS (mg/l)	456 to 789	344 to 608	500-2000
	3	Fluoride (mg/l)	0.72 to 1.23	0.56 to 0.70	1-1.5
	4	Sulphate (mg/l)	33.68 to 210.51	30.04 to 172.6	200-400
	5	Calcium (mg/l)	71.54 to 179.88	59.4 to 146.5	75-200
	6	Magnesium(mg/l)	13.63 to 42.99	17.3 to 39.7	30-100
Surface Water Quality (no. of locations) and results	S.No	Parameters	March to May, 2019 (4 locations)	March to May 2022 (1 location)	
	1	pH	7.39 to 7.46	7.36	
	2	TDS (mg/l)	171 to 362	326	
	3	DO (mg/l)	4.70 to 5.50	6.7	
	4	BOD (mg/l)	5.20 to 9.60	5.1	
	5	Magnesium(mg/l)	1094 to 32.81	19.2	
Soil Quality (no. of locations) and results	S.No	Parameters	March to May, 2019 (10 locations)	March to May 2022 (8 locations)	
	1	pH	7.23 to 8.15	7.53 to 8.15	
	2	Texture	Silt Loam	Silt Loam	

EC- M/s Prism Johnson Ltd, Madhya Pradesh

Page 7 of 24

	3	Organic Matter (%)	0.68 to 1.24	0.88 to 1.35
Hydro geological study and results	Hydrogeology study has been conducted during the Summer Season (March to May 2021) and based on the same NOC has been obtained on 25.03.2022. The radius of influence calculated from the mine site is 500m from the working pit in the plan period. The impact will be within the mining lease area. The water withdrawal due to seepage will neither decline the water level nor have any harmful impact in the water quality.			
Traffic study (no. of locations) and results	Traffic survey has been carried out & impact of transportation on either side of the road has been shown by the means of line source modeling and isopleths. At present 4,334TPD of Limestone is being transported from mine to the cement plant via 5.3 km long public road passing through Mendhi Limestone Mine and Hinauti Sijhatta Limestone Mine through 35 T capacity Hyva truck. Total number of trips required to transport 4,334 TPD of limestone are 124 (248 trips to & from) and number of trips per hour are 8. V/C ratio for the existing traffic scenario was observed as 0.17 which falls under the LOS category "A Excellent".			
Additional information (if any)	Project Proponent submitted that earlier baseline study was conducted during Summer Season (March to May, 2019). As the Baseline data was 3 years old; one season fresh baseline data was collected during Summer Season (March to May, 2022).			

xiii. Public Hearing (PH) Details:

Advertisement for PH with date (name of major national daily and one regional vernacular daily newspaper)	National Level/Local Level: Star News, Navbharat Samachar dated 01.01.2022 Patrika News Satna dated 02.01.2022
Date of PH	04.02.2022 at 11:00 AM
Venue	Near the site office at the mine site in Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, MP
Chaired by	Shri Rajesh Shahi: Additional District Magistrate, Satna Shri KP Soni, Regional Officer, M. P. Pollution Control Board, Satna
Main issues raised during PH	Issues raised during public hearing were about blasting, tree cutting, protection of environment, compensation, pollution, employment, non-provision of fruit bearing trees, drinking water,

	health care facilities, education, infrastructure development, skill development, plantation in nearby areas etc.
Budget proposed for addressing issues raised during PH over 3 years	Capital Cost: Rs. 2.02 Crores Recurring Cost: Rs 8.10 lakh/annum

xiv. Details of CTE/CTO, Certified Compliance Report, and Certified Production Details from the inception of the mine:

Particulars	Details of Letter along with date of grant and validity
Consent to Establish	Consent to Establish (CTE) issued by the Madhya Pradesh Pollution Control Board (MPPCB) vide letter no. 10.096/TS/Mine/MPPCB/2008, dated: 15.12.2008 for establishing captive Bagahai Limestone mine – 512.317 ha for production of 1.3 MTPA.
Consent to Operate	Consent to Operate (CTO) issued by the Madhya Pradesh Pollution Control Board (MPPCB) vide outward no 116158 with consent no. AW-56449 dated 02.08.2022 for mining of Limestone of 1.3 MTPA and it is valid upto 31.12.2023.
Certified Compliance Report and Inspection date	Fresh Certified Compliance Report has been obtained vide file no. 5-249/2008(Env) dated 20.02.2023. Copy of the Action Taken Report has been obtained from the Integrated Regional Office, Bhopal vide file no. 5-249/2008(Env) dated 29.03.2023. Inspection Date: 07.12.2022.
Certified Production Details from the inception of the mine (in tabular form against the EC capacity)	Mining operations commenced on 12.12.2011. Authenticated production details were obtained from Office Collector, (Mine Branch), District Satna, MP vide letter no. 109/Khanij/2019, Satna, dated 11.01.2019; vide letter no. 2261/Khanij/2019, Satna, dated 27.08.2019; vide letter no. 1503/Khanij/2020, Satna, dated 10.08.2020; vide letter no. 2290/Khanij/2021, Satna, dated 16.08.2021 & vide letter no. 1522/Khanij/2022, Satna, dated 25.08.2022.

xv. Rehabilitation & Resettlement (R&R):

R & R details	The Project Proponent has submitted that this is an existing mine and expansion will be carried within existing ML area. Total ML area is 512.317 ha, out of which 1.071 ha is Govt. land and 511.246 ha is Pvt. Land. Out of 511.246 ha of Pvt. land, 61.915 ha shall remain undisturbed; hence not required to be purchased. After excluding the undisturbed land total Pvt. land anticipated for mining is 449.331 ha, out of which 174.15 ha has been purchased whereas balance land of 275.181 ha needs to be purchased for carrying out mining activity. There are 162 PAFs within the lease area out of which, 89 PAFs are homestead outsees which will be displaced. Compensation will be provided as per the LARR Act, 2013. Budget earmarked for R&R Action Plan is Rs. 197.50 crore.
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xvi. Court case details:

Court Case, No and its present status	The Project Proponent vide letter dated 05.04.2023 submitted an undertaking stating that there is no
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EC- M/s Prism Johnson Ltd, Madhya Pradesh

Page 9 of 24

	litigation pending against the project and/or any direction /order passed by any court of law against the proposed project and/ or land/R&R in which the project is proposed and that for any such litigation whatsoever, the sole responsibilities will be borne by the company.
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xvii. Affidavit/Undertaking details:

Affidavit as per Ministry's OM dated 30.05.2018	The Project Proponent submitted the Affidavit in a non-judicial stamp paper of Rs 100 bearing no: AV 238741 dated 17.10.2019 stating that the company will comply with the all the statutory requirement & judgment of Hon'ble Supreme Court dated 2 nd August 2017 in Writ Petition (Civil) No. 114 of 2014 in the matter of common cause versus Union of India & Ors.
Undertaking by Project Proponent in EIA/EMP report	The Project Proponent has submitted an undertaking vide letter dated 13.10.2022 stating that they have reviewed the EIA report and take full responsibility and ownership of the contents presented in the EIA report by J.M. EnviroNet Pvt. Ltd. Instructions as per MoEF&CC vide OM No. J-11013/41/2006-IA.II(I) dated 04.08.2009 has been followed in the preparation of this EIA report.
Undertaking by Consultant in EIA/EMP report	The Consultant submitted an undertaking vide letter dated 15.10.2022 to the effect that the conditions laid down in Terms of Reference prescribed by MoEF&CC, New Delhi vide letter no. J-11015/25/2019-IA.II(M) dated 27.10.2020 have been complied as per data/details provided by Project Proponent & as per Approved Mining Plan along with Progressive Mine Closure Plan approved by IBM and the data submitted are factually correct.
Plagiarism Certificate	The Head of the Accredited Consultant Organization/ Authorized person certified that this EIA Report has been evaluated by using online software viz. Plagiarism Checker X on 08.10.2022. The report produced has been analyzed by the system and based on it and certify that the EIA Report produce in accordance with good scientific practice.

xviii. Details of the Environmental Management Plan (EMP):

S. No.	Activities	Existing		Additional		Total	
		Capital	Recurring	Capital	Recurring	Capital	Recurring
I	EMP for Pollution Control & Monitoring						
Mitigation Measures							
1	Bag filters	-	-	25.00	0.20	25.00	0.20
2	Permanent water sprinkling arrangements for main haulage road (Length 0.5 km)	-	-	15.00	0.20	15.00	0.20

3	Water tanker (12 KL) for water sprinkling in other roads and mining areas/activities	-	10.00	-	10.00	-	20.00
	Greenbelt has been developed covering an area of 3.1 ha with 7750 nos of saplings & remaining area of greenbelt i.e. 6.225 ha will be completed in upcoming year with 15562 nos of saplings	7.75	0.50	15.56	1.00	23.31	1.50
4	Plantation along the safety zone has been developed covering an area of 7.3 ha & remaining area i.e. 60.09 ha to be covered in upcoming 5 years (Total cost: 1.68 Crore)	18.25	0.50	150.22	1.00	168.47	1.50
	Plantation has been developed on 7.18 ha of backfilled area with 17,650 nos of saplings & remaining backfilled area i.e. 92.28 ha to be rehabilitated by plantation/regrassing with 2,30,700 nos of saplings as per Mining Plan	17.95	0.50	-	28.84	17.95	29.34
	Bench Plantation, Area: 21.377 Ha, In last 2 years, Nos of Saplings: 53442 (Total Cost: Rs. 53.44 Lakh, Recurring Cost: 6.68 Lakh considering 8 years)	-	-	-	6.68	-	6.68
5	Water spray at loading point of crusher	-	-	8.00	0.20	8.00	0.20
6	Construction of Garland Drain around soil dump	6.00	0.62	3.90	0.40	9.90	1.02
7	Stone pitching of Garland Drain	-	-	2.00	0.20	2.0	0.20
8	Construction of Retaining Wall around soil dump	8.00	0.80	3.00	0.30	11.00	1.10
9	Construction of Channelized Catch Drains	3.81	0.51	3.00	0.40	6.81	0.91
10	01 nos. of Settling Tank / Sedimentation Pond	2.00	-	2.00	0.40	4.00	0.40
Sub-Total		63.76	13.43	227.68	49.82	291.44	63.25

Monitoring

1	Continuous Ambient Air Quality Monitoring Stations at Mine Site (online) at village Baghai	-	-	70	13.73	70	13.73
2	Ambient Air Quality Monitoring (4 locations)	4.50	0.40	-	0.40	4.50	0.80
3	Fugitive dust emission monitoring (4 locations)	-	0.15	-	0.15	-	0.30
4	Construction of two Piezometers in & around mining lease area	0.50	0.40	5.82	0.40	6.32	0.80
5	Ground water quality analysis (PZ Wells, 4 times in a year)	-	0.30	-	0.30	-	0.60
6	Surface Water Quality Analysis (Upstream and downstream of Seasonal Nallah& Mine Sump) - 5 samples * half yearly	-	0.30	-	0.28	-	0.58
7	Workshop Waste Water Quality Analysis (monthly) as well as maintenance of oil-water separators	-	0.30	-	0.30	-	0.60
8	Peak Particle Velocity Monitoring for nearest habitation i.e. Tapa, Satri	2.00	0.05	-	-	2.00	0.05
9	Ambient Noise Monitoring (4 locations * monthly frequency)	2.00	0.01	-	0.02	2.00	0.03

10	Digital mapping of entire mine area once in three years (Rs. 3 Lacs once in 3 years)	-	3.00	-	3.00	-	6.00
11	Others, if any	17.40	6.00	7.50	6.00	24.90	12.00
	Sub-Total	26.40	10.91	83.32	24.58	109.72	35.49
II	Estimated Budget for Addressing the Public Hearing Issues (Within 3 years)	-	-	202.0	8.10	202.0	8.10
	Grand Total	90.16	24.34	513.00	82.50	603.16	106.84

xix. Details of project cost and employment:

Particular	(Rs. In Crore)
Total cost of EMP (Capital Cost of EMP + capital cost of Public hearing)	6.03 Crores
Project Cost	210 Crores
Employment (No.s)	302 Persons

3. Observation and Recommendation of the Committee: -

The Project Proponent/Consultant presented the KML file to indicate the site features in the vicinity of the mine lease area and within 10km radius. The Project Proponent has shown the mine lease area and the cement plant in the KML file. The Project Proponent has shown the different blocks proposed for mining. A canal is passing through the eastern block of the lease area in north western direction. A nallah is passing adjacently to the mine lease boundary and will not be disturbed. Nar Nadi terminating into Ton or Tamas River (Near Village Raghunathpur) passing adjacently to the western boundary of the lease area and continues towards in NW direction. 50 m from the edge of Nar Nadi is being/will be left as a safety barrier zone. The Project Proponent also informed the EAC that the railway line passing through the restricted part of the lease area. The EAC asked the Project Proponent whether the railway line falls within the mine lease area or not. The Project Proponent informed the EAC that railway line is outside the mine lease area and is not a part of the mine lease area. The EAC asked the Project Proponent to obtain the NOC from the Railways Dept. when approaching that area for mining operation. The EAC opined that the Project Proponent shall not undertake the blasting activity within 500m from the railway boundary without scientific study and to obtain necessary permission from DGMS and Railways. The EAC also asked the Project Proponent whether NOC has been obtained from the Irrigation Dept. for ensuring the stability of the canal from the blasting activity. The Project Proponent informed the EAC that the NOC will be obtained before approaching mining operation close to the canal. All the mining activity proposed expansion to be carried out in next five years will not interfere anywhere with the natural drainage pattern.

The Project Proponent informed the EAC that the mine lease is valid up to 27.02.2041. Mining Plan approved by IBM on 09.04.2021 for the enhanced production capacity of 5.0 MTPA. The Project Proponent also informed the EAC that there is no excess production done over and above the EC capacity of 1.3 MTPA. The Project Proponent informed the EAC that the baseline data was collected during March-May, 2022 (Summer season) and the predominant wind direction was from South West. The post projection

concentration of air pollutants will be within the prescribed limits of National Ambient Air Quality Standards (NAAQS). Water accumulated in the mine pit will be utilized in the development of greenbelt/plantation, dust suppression and in case of surplus quantity water will be provided to the villagers as per their requirement for agriculture purpose. An area of 174.15 ha has been already purchased and balance area of 275.181 ha needs to be purchased for carrying out mining activity. Budget allocated for R&R Action Plan is Rs. 197.50 Cr. The Project Proponent also informed the EAC that budget of Rs. 2.02 Crores has been allocated towards to address the concerns of the public hearing. The Project Proponent has shown the Certified Compliance Report dated 20.02.2023 issued by the Integrated Regional Office (IRO), Bhopal. Project Proponent also informed the EAC that the site inspection was carried out by IRO on 07.12.2022. Further, the Project Proponent has also shown the action taken report issued by the IRO on 29.03.2023. The EAC asked the Project Proponent to make provision for permanent dust suppression system to control the fugitive emission.

After detailed deliberations made by the Project Proponent and the Consultant, the EAC under the provisions of EIA Notification, 2006 and its subsequent amendments, the EAC **recommended** the proposal for grant of Environmental Clearance to M/s Prism Johnson Ltd for mining of Limestone for Expansion in Limestone Production Capacity of from 1.3 Million TPA to 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and installation of new crusher of 1200 TPH Capacity in the mine lease area of 512.317 ha, located at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh subject to the specific conditions in addition to the standard EC conditions applicable for non-coal mining projects.

4. The matter was examined in the EAC in accordance with the Environmental Impact Assessment Notification, 2006 and further amendments thereto and the undersigned is directed to say that the Ministry of Environment Forest & Climate Change after accepting the recommendation of EAC in its 13th EAC (Non-Coal Mining) meeting held during 17 April, 2023 hereby accords Environmental Clearance (EC) to M/s Prism Johnson Ltd for mining of Limestone for Expansion in Limestone Production Capacity of from 1.3 Million TPA to 5.0 Million TPA, Top Soil: 2.322 Million TPA & OB/SB/IB: 5.590 Million TPA (Total Excavation: 12.912 Million TPA) and installation of new crusher of 1200 TPH Capacity in the mine lease area of 512.317 ha, located at Village: Baghai, Tehsil: Rampur Baghelan, District: Satna, Madhya Pradesh subject to compliance of the terms & conditions and the environmental safeguards mentioned below: -

A. SPECIFIC CONDITIONS

- i. This Environmental Clearance will be valid upto the validity of the mine lease period i.e., 27.02.2041.
- ii. No Nallahs and other water bodies in and around the vicinity of the mine lease area shall not be disturbed at any stage. Regular monitoring on water quality of nallah shall be carried out.

- iii. The Project Proponent shall strictly adhere to the mines act and rules w.r.t. habitations, schools, water bodies, roads, railway lines etc., prevailing in the vicinity of the mine lease area and necessary permission shall be obtained from the concerned authorities.
- iv. No mining activity shall be undertaken within 500m radius from the railway boundary. Necessary permission from DGMS and NOC shall be obtained from the Railways Dept. before the mining activity approaching to the railway area. The same shall be submitted to the Ministry's Integrated Regional Office.
- v. The Project Proponent shall construct the boundary wall of adequate height with green fencing and shall undertake dense plantation all along the boundary near the school (restricted part of the mine lease area).
- vi. The Project Proponent shall maintain the distance of 500m radius between the school (restricted part of the mine lease area) and mine lease area throughout the life of the mine. No blasting activity shall be undertaken in this zone.
- vii. The Project Proponent shall carryout the blasting in such a way that the direction of the blasting should be perpendicular to the school.
- viii. The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of "peak particle velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time. The data needs to be maintained and submitted along with the six monthly compliance report. The implementation status of the scientific study carried out CSIR-CIMFR shall be submitted to the Ministry's Integrated Regional Office.
- ix. Prior permission from the Irrigation Dept. shall be obtained for ensuring the stability of the canal from the blasting activity.
- x. The Project Proponent should follow the back filling plan strictly as per the approved mining plan. Top soil dumping, preservation and utilization should be carried out as per the approved mining plan
- xi. Protective bund along the mine boundary towards the Canal shall be stabilized by fruit bearing plantation within two years from the issue of this EC. In between bund and plantation retaining wall should be constructed to arrest fine particles.
- xii. The Project Proponent shall monitor the air quality, noise level, water quality, water level and ground vibration during drilling and blasting at the edge of the mine, near the village and at other sensitive receptors and such collected data shall be submitted quarterly to the Ministry's Integrated Regional Office.
- xiii. The Project Proponent needs to obtain prior permission from the Forest Dept. for cutting down the trees. PP shall approach the Forest Department to visit the site for



demarcation of trees with their type. PP shall explore the possibility of tree transplantation before cutting of trees. Trees cannot be transplanted needs to replant the same in consultation with the Forest Dept. Trees cannot be transplanted shall be vetted by the Forest Dept. before cutting of trees.

- xiv. The Project Proponent shall undertake the fruit bearing plantation all along the safety zone of the habitations, schools, railway lines, water bodies and roads within three years from the start of mining operations.
- xv. The Project Proponent needs to install the permanent water sprinklers along the haul road and the approach road. Further, 10 nos. of fog canon/mist sprayer of atleast 40 m throw shall be installed at various locations in the mine area. Effective dust suppression system shall also be adopted at other parts of the mining lease to arrest the fugitive dust emission.
- xvi. The air pollution control equipment's like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, and other areas prone to air pollution. PP shall take necessary measures to avoid generation of fugitive dust emissions. The dense plantation shall be carried out in the vicinity of the crusher. The Stack emission monitoring of the Crusher shall be carried out at periodic intervals.
- xvii. The Project Proponent needs to complete the entire 7.5 m peripheral plantation, safety barrier plantation and gap plantation within three years from the start of mining operations. The Project Proponent should plant quality sapling of appropriate height of native and fruit bearing species. In case of tall transplants (seedlings) the seedlings should have proper trained root stock with root biomass commensurate with seedling height to ensure good growth after out planting. Plantation shall be undertaken in consultation with the State Forest Department. The Project Proponent shall implement the practice of drip irrigation for plantation.
- xviii. The Project Proponent shall make the actual count on the saplings planted and its survival rate and in case of failure of achievement of 95% survival rate, action plan for achieving the target survival rate shall be submitted to the Ministry's Integrated Regional Office.
- xix. The Project Proponent should adopt the proper mitigation measures as proposed under EMP with budgetary provision of Rs 83.32 Lakhs. The adoption of mitigation measures and monitoring of the same as proposed in the EMP shall be done under the supervision of the qualified environmental personnel. The implementation status of the same shall be submitted to the Ministry's Integrated Regional Office.
- xx. The Project Proponent should establish in house (at project site) environment laboratory for measurement of environment parameter with respect to air quality and water (surface and ground). A dedicated team to oversee environment management shall be setup at site which should comprise of Environment Engineers, Laboratory chemist and staff for monitoring of air, water quality parameters on routine basis



instead of engaging environment monitoring laboratories/consultants within two years of grant of EC. Any non-compliance or infringement should be reported to the concerned authority.

- xxi. The Project Proponent shall conduct third party audit of compliance of EC condition at an interval one year and its report shall be submitted to IRO, MoEF&CC.
- xxii. The budget of Rs 2.02 Cr to address the concerns raised by the public in the public hearing to be completed within 3 years from the date of start of mining operations. PP shall comply with all action plans made for public hearing concerns and make regular maintenance and record the progressive activity out comes. The Project proponent shall ensure that the activities proposed under the public hearing is different from the CSR activities.
- xxiii. The Project Proponent needs to provide the RO drinking water supply and also by laying network of pipelines to the villages Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi at free of cost.
- xxiv. The Project Proponent needs to construct the boundary wall (250 Feet Length and 5 feet Height) in Primary School located at Medhi Village with allocated budget of Rs 5.0 Lakhs.
- xxv. The Project Proponent needs to facilitate the online education system in the schools by providing Wi-Fi connectivity, smart classrooms and desktops/ tablets. PP shall construct a library which shall be made available to the school children as well as local people.
- xxvi. The Project Proponent shall create awareness among the local people working within the project area as well as its surrounding area on the ban of Single Use Plastic (SUP) in order to ensure the compliance of Notification published by MoEF&CC on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six monthly compliance report.
- xxvii. The Project Proponent shall explore the possibility of using atleast 20% of Electric vehicles/CNG/Solar instead of diesel operation within three years.
- xxviii. The Project Proponent should implement the Rehabilitation of project affected families (PAFs) and payment of compensation to PAFs in line with the policy and guidelines of the Central/State Government, as provided under the law in such a way that the compensation should benefit the current and future generation.
- xxix. The Project Proponent shall also organize employment-based apprenticeship/internship training program every year with appropriate stipend for the youth and other programs to enhance the skill of the local people. The data should be maintained for the training imparted to the persons and the outcome of the training, for the assessment of the training program should be analyzed periodically and

improved accordingly. The preference shall be given to the local people for the purpose of employment.

- xxx. The Project Proponent should periodically monitor and maintain the health records of the mine workers digitally prior to mining operations, at the time of operation of mine and post mining operations. Regular surveillance on Silicosis shall be carried through regular occupational health check-up every year for mine workers. PP shall also organize medical camp for the benefit of the local people and also the monitor the health impacts due to mining activity.
- xxxi. The mining lease holders shall, after ceasing mining operations, undertake regrassing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc. The implementation report of the above said condition shall be submitted to the Ministry's Integrated Regional Office.

B. STANDARD CONDITIONS

I. Statutory compliance

- 1) This Environmental Clearance (EC) is subject to orders/ judgment of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, Common Cause Conditions as may be applicable.
- 2) The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India &Ors before commencing the mining operations.
- 3) The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of Judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors.
- 4) The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".
- 5) A copy of EC letter will be marked to concerned Panchayat / local NGO etc. if any, from whom suggestion / representation has been received while processing the proposal.
- 6) State Pollution Control Board/Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office/ Tehsildar's Office for 30 days.



EC- M/s Prism Johnson Ltd, Madhya Pradesh

Page 17 of 24

7) The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board/Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement may be forwarded to the concerned MoEFCC Regional Office for compliance and record.

8) The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred. PP needs to apply for transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.

II. Air quality monitoring and preservation

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

10) Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipments/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.

III. Water quality monitoring and preservation

11) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area.



12) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

13) The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. The parameters to be monitored shall include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. pre- monsoon (April May), monsoon (August), post-monsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.

14) Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well as displayed at the project site in public domain, on a display board, at a suitable location near the main gate of the Company. The circular No. J-20012/1/2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

15) Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEFCC annually.

16) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

17) The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

IV. Noise and vibration monitoring and prevention

18) The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.

19) The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.

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

V. Mining plan

21) The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).

22) The land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life shall be governed as per the approved Mining Plan. The excavation vis-à-vis backfilling in the mine lease area and corresponding afforestation to be raised in the reclaimed area shall be governed as per approved mining plan. PP shall ensure the monitoring and management of rehabilitated areas until the vegetation becomes self-sustaining. The compliance status shall be submitted half-yearly to the MoEFCC and its concerned Regional Office.

VI. Land reclamation

23) The Overburden (O.B.), waste and topsoil generated during the mining operations shall be stacked at earmarked OB dump site(s) only and it should not be kept active for a long period of time. The physical parameters of the OB / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.

24) The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it impacts the overall stability of dumps. The dump mass should be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass. In critical areas, use of geo textiles/ geo-membranes / clay liners / Bentonite etc. shall be undertaken for stabilization of the dump.

25) Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/ River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/ sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.

26) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

VII. Transportation

27) No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport].

28) The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker-mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. should invariably be provided with dust suppression arrangements. The air pollution control equipments like



bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

VIII. Green Belt

29) The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.

30) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department/ Agriculture Department/ Rural development department/ Tribal Welfare Department/ Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees.

31) The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted.

IX. Public hearing and human health issues

32) Project Proponent shall make provision for the housing for workers/labors or shall construct labor camps within/outside (company owned land) with necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.

X. Corporate Environment Responsibility (CER)

33) The Project Proponent shall submit the time- bound action plan to the concerned regional office of the Ministry within 6 months from the date of issuance of environmental

clearance for undertaking the activities committed during public consultation by the project proponent and as discussed by the EAC, in terms of the provisions of the MoEF&CC Office Memorandum No.22-65/2017-IA.III dated 30 September, 2020. The action plan shall be implemented within three years of commencement of the project.

XI. Miscellaneous

34) The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.

35) The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.

36) The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.

37) A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.

38) The concerned Regional Office of the MoEF&CC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEF&CC officer(s) by furnishing the requisite data / information / monitoring reports.

39) In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake regressing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.

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

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

5. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991

along with their amendments and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.

6. 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.

7. This issues with the approval of Competent Authority.

Yours faithfully,

Pankaj Verma
(Pankaj Verma)
Scientist 'E'

Copy to:

- i. **The Secretary**, Ministry of Mines, Government of India Shastri Bhawan, New Delhi.
- ii. **The Secretary**, Department of Mines and Geology, Government of Madhya Pradesh, Secretariat, Bhopal.
- iii. **The Secretary**, Department of Environment, Government of Madhya Pradesh, Secretariat, Bhopal.
- iv. **The Secretary**, Department of Forests, Government of Madhya Pradesh, Secretariat, Bhopal.
- v. **The Chief Wildlife Warden**, Government of Madhya Pradesh, Van Bhavan, 1st Floor, Tulsi Nagar, Bhopal - 462 003.
- vi. **The Deputy Director General of Forests (C)**, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road No.3, Ravishankar Nagar, Bhopal - 462 016.
- vii. **The Member Secretary**, Central Pollution Control Board, Parivesh Bhawan, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110 032.
- viii. **The Member Secretary**, Central Ground Water Authority, 18/11, Jam Nagar House, Man Singh Road, New Delhi-110011.
- ix. **The Member Secretary**, Madhya Pradesh State Pollution Control Board, Paryavaran Parisar, E-5, Arera Colony, Bhopal - 462016.
- x. **The Controller General**, Indian Bureau of Mines, Indira Bhavan, Civil Lines, Nagpur-440 001.
- xi. **The District Collector**, Satna District, Government of Madhya Pradesh.
- xii. **Guard File.**
- xiii. **PARIVESH Portal.**

Pankaj Verma
(Pankaj Verma)
Scientist 'E'

Signature Not Verified

Digitally signed by Pankaj Verma
Scientist E
Date: 5/15/2023 12:45:36 PM

आम - सूचना

सर्वसाधारण को सूचित किया जाता है कि प्रिज्म जॉनसन लिमिटेड, ग्राम मनकहरी, जिला- सतना को पर्यावरण एवं जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार द्वारा पत्र क्रमांक J-11015/25/2019-IA.II(M) दिनांक 15.05.2023 के माध्यम से जिला- सतना के तहसील रामपुर बघेलान अंतर्गत ग्राम बगहाई मे खनिज चूना पत्थर उत्खनन क्षमता विस्तार हेतु 512.317 हेक्टेयर क्षेत्र पर पर्यावरणीय स्वीकृत प्रदान की गयी है। पर्यावरणीय स्वीकृत की प्रति/विस्तृत जानकारी म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार की बेबसाइट (www.parivesh.nic.in), पर उपलब्ध है। सूचना सर्वसाधारण की जानकारी हेतु प्रकाशित की जा रही है।

वास्ते- प्रिज्म जॉनसन लिमिटेड
मनकहरी, जिला सतना (म.प्र.)

आम सूचना

सर्व साधारण को सूचित किया जाता है कि प्रिज्म जॉनसन लिमिटेड, ग्राम मनकहरी, जिला-सतना को पर्यावरण एवं जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार द्वारा पत्र क्रमांक J-11015/25/2019-IA.II(M) दिनांक 15.05.2023 के माध्यम से जिला-सतना के तहसील रामपुर बदेलान अंतर्गत ग्राम बगहाई मे खनिज चूना पत्थर उत्तर्खनन क्षमता विस्तार हेतु 512.317 हेक्टेयर क्षेत्र पर पर्यावरणीय स्वीकृत प्रदान की गयी है।

पर्यावरणीय स्वीकृत की प्रति/विस्तृत जानकारी म.प्र. प्रदूषण नियंत्रण बोर्ड एवं पर्यावरण और जलवायु परिवर्तन मंत्रालय (MOEF&CC), भारत सरकार की वेबसाइट (www.parivesh.njc.in) पर उपलब्ध है। सूचना सर्व साधारण की जानकारी हेतु प्रकाशित की जा रही है।

वास्ते - प्रिज्म जॉनसन लिमिटेड
मनकहरी जिला-सतना (म.प्र.)

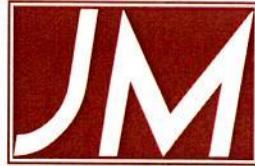
आम सूचना

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**वास्ते - प्रिज्म जॉनसन लिमिटेड
मनकहरी जिला- सतना (म.प्र.)**

Annexure 19: Photographs of CAAQMS





J.M. ENVIROLAB PVT. LTD.

30 years of success Recognized by CPCB under EP Act-1986, Certified by ISO-9001:2015, 14001:2015 & 45001:2018



TEST REPORT

Sample Number:	JME/PJCL/FD/19	Report No.:	JME/FD/250618689
Name & Address of Unit	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-02
Sample Description:	FUGITIVE EMISSION	Party Reference No.:	Nil
		Reporting Date:	21/06/2025
		Analysis Completion Date:	21/06/2025
		Analysis Start Date:	18/06/2025
		Receipt Date:	18/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

Sample collected by

JMEPL Team

Sampling Location

Near Haul Road

Instrument used

HVS

Instrument code

JME/HVS/01/01

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Cloudy Sky

Date of Monitoring

16/06/2025

Time of Monitoring

08:45 to 12:49 Hrs.

Duration of Monitoring, (minutes)

240.0

Ambient Temperature (°C)

34.0

Surrounding activity

Operational Activities

Sampling Protocol

JMEPL/STOP/04

Parameter Required

SPM

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Suspended Particulate Matter	JMEPL/STOP/03	526.0	µg/m ³

Note: As per CPCB Guideline

1. Permissible limit for other than coal dust is 5000 µg/m³
2. Permissible limit for Coal Dust is 2000 µg/m³

Page 1 of 1

Checked by

Deepak Singh Yadav

Note:

1. This test report pertains solely to the tested sample as received.
2. This report shall not be reproduced without in full.
3. Any discrepancies in this test report must be brought to our attention within 7 days from the date of issue.
4. The sample will be destroyed after the specified retention period unless prior instructions are received.
5. All disputes are subject to the exclusive jurisdiction of Gurugram only.

Reviewed & Authorized by
Sita Ram Yadav

Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
Phase-IV, Gurugram-122015 (Haryana)
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011(Haryana)

End of Report



TEST REPORT

Sample Number:	JME/PJCL/FD/20	Report No.:	JME/FD/250618690
Name & Address of Unit	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-02
Sample Description:	FUGITIVE EMISSION	Party Reference No.:	Nil
		Reporting Date:	21/06/2025
		Analysis Completion Date:	21/06/2025
		Analysis Start Date:	18/06/2025
		Receipt Date:	18/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

Sample collected by

JMELPL Team

Sampling Location

Near Drilling/Loading Point

Instrument used

HVS

Instrument code

JME/HVS/01/01

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Clear Sky

Date of Monitoring

16/06/2025

Time of Monitoring

14:25 to 18:29 Hrs.

Duration of Monitoring, (minutes)

240.0

Ambient Temperature (°C)

31.0

Surrounding activity

Operational Activities

Sampling Protocol

JMELPL/STOP/04

Parameter Required

SPM

TEST RESULTS

S. No.	Parameters	Testing Protocol	Result	Unit
1.	Suspended Particulate Matter	JMELPL/STOP/03	413.0	µg/m ³

Note: As per CPCB Guideline

1. Permissible limit for other than coal dust is 5000 µg/m³
2. Permissible limit for Coal Dust is 2000 µg/m³

Page 1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Sita Ram Yadav

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Ext. Road, Sector-61, Gurugram-122011(Haryana)



भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti

Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	Bagahai Limestone Mine (ml Area- 512.317 Ha)		
Project Address:	Villages Baghai, Tehsil Rampur Baghelan, District Satna		
Village:	Baghai	Block:	Rampur Baghelan
District:	Satna	State:	Madhya Pradesh
Pin Code:			
Communication Address:	Rajdeep, Rewa Road, Satna, Rampur Baghelan, Satna, Madhya Pradesh - 485001		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1. NOC No.:	CGWA/NOC/MIN/REN/1/2025/11633	2. Date of Issuence	16/05/2025
3. Application No.:	21-4/1167/MP/MIN/2021	4. Category: (GWRE 2024)	Semi Critical
5. Project Status:	Existing With Additional Ground Water Requirment	6. NOC Type:	Renewal
7. Valid from:	25/03/2024	8. Valid up to:	24/03/2026
9. Ground Water Abstraction Permitted:			

Fresh Water		Saline Water		Dewatering		Total	
m ³ /day	m ³ /year						
0.00	0.00			994.00	362810.00	994.00	362810.00

10. Details of ground water abstraction /Dewatering structures

Total Existing No							Total Proposed No						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Dewatering Structure*	0	0	0	0	0	2	0	0	0	0	0	0	

*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit; MPu-Mine Pumps

11. Ground Water Abstraction/Restoration Charges paid (Rs.):	2017385.00
12. Environment Compensation (if applicable) paid (Rs.):	0.00
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	Monitoring Mechanism
	Manual DWLR** DWLR With Telemetry

**DWLR - Digital Water Level Recorder

2 0 1

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

CENTRAL GROUND WATER AUTHORITY

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Validity of this NOC shall be subject to compliance of the following conditions:

Mandatory conditions:

- 1) Installation of tamper proof digital water flow meter with telemetry on all the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guidelines.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) Industries abstracting ground water in excess of 100 m³ /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

General conditions:

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.
- 24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.
- 25) Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.
- 26) In case of new infrastructure projects having ground water abstraction of more than 20 m³/day, the firm/entity shall ensure implementation of dual water supply system in the projects.
- 27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.
- 28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.
- 29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.
- 30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).
- 31) In the self-compliance report, the PP shall submit details of Drilling Agency/ Agencies, which has/ have constructed BW(s)/ TW(s) along with undertaking to the effect that all necessary measures have been taken as per directions of Hon'ble Supreme Court provided in Annexure-VII of guidelines dated 24.09.2020 in respect of abandoned/ failed BW(s)/ TW(s)/Piezometer(s), if any. The PP is advised to engage registered drilling agency/ agencies. In the event of any mishap/ unfortunate incident due to negligence in taking measures for prevention of accident due to falling in Bore Well, both PP and concerned drilling agency shall jointly be held responsible and penal action as per extant Government rules shall be taken.

(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

CENTRAL GROUND WATER AUTHORITY
 Department of Water Resources, River Development and Ganga Rejuvenation
 Ministry of Jal Shakti, Govt. of India

Receipt

(As per the guideline Gazette Notification S.O. 3281(E) regarding the New Guidelines dated 24.09.2020 of CGWA, MoJS, Govt. of India)
<https://cgwa-noc.gov.in>

Application No.:	21-4/1167/MP/MIN/2021	Date of Issuence:16/05/2025
Name of Firm:	BAGAHAI LIMESTONE MINE (ML AREA- 512.317 HA)	
AppType Category:	Limestone	
Application Type:	Mining	
PAN/GSTIN No. of Firm/Individual:	/	

S N	Description		Amount (Rs.)
1.	Application Processing Fee		5000.00
2.	Ground Water Abstraction charges		2017385.00
3.	Ground Water Restoration charges		0
4.	Environmental Compensation Charges (ECRGW) (Date From to) Days-		
5.	Penalty for non-Compliance of NOC conditions <i>Condition to be mentioned</i>		
6.	Adjustment Charges		
7.	Rebate		
8.	Charges for correction/modification in the existing issued No Objection Certificate		
S.No.	Description	Rate	
(i)	Change in User ID	Rs. 1000	
(ii)	Change in firm Name	Rs. 5000	
(iii)	Extension of No Objection Certificate	Rs. 5000	
(iv)	Issuance of duplicate No Objection Certificate	Rs. 5000	
(v)	Issuance of corrigendum to No Objection Certificate	Rs. 5000	
(vi)	Any other items/correction etc.	Rs. 500	
Rs. Rupees Twenty Lakh Twenty Two Thousand Three Hundred Eighty Five Only			2022385.00

This is an system generated invoice, hence, does not require ink signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

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Website: cgwa-noc.gov.in

पानी बचाये – जीवन बचाये
SAVE WATER - SAVE LIFE

Term and conditions:

- i. All disputes are subject to Delhi Jurisdiction.
- ii. Any complaint in regard to the rates will not be entertained.

Member-Secretary
CGWA, New Delhi

CENTRAL GROUND WATER AUTHORITY



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TC-6821

TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited.
(Unit- Cement Division) At Village- Mankahari,
PO- Bathia, Dist-Satna, Madhya Pradesh.** Report No.: **JME/WL/250609001**

Ref. No.: **Nil**Date of Reporting: **09/06/2025**Sample Description: **Ground Water Level Monitoring** Receipt Date: **05/06/2025**Client Representative **Mr. Sumitabh Dwivedi**
(Name & Designation): **(Assistant General Manager- Environment)** Sample collected by: **JMEPL Team**

GROUND WATER LEVEL (IN METERS)

S. No.	Location	Date of Monitoring	Type of Well	Water Level (m bgl)
1.	Near Colony Gate	03/06/2025	Piezo Well	18.06
2.	Front of Den	03/06/2025	Piezo Well	8.59
3.	Behind B-Block Colony	03/06/2025	Piezo Well	19.51
4.	Behind C-Block colony	03/06/2025	Piezo Well	9.86
5.	New Magazine Mines	03/06/2025	Piezo Well	15.3
6.	Ramprasan Mines	03/06/2025	Piezo Well	16.22
7.	Western Block Mines	03/06/2025	Piezo Well	9.35
8.	Medhi Mine's	03/06/2025	Piezo Well	13.38
9.	Near Auto Work Shop	03/06/2025	Piezo Well	12.65
10.	Rose Garden Near Road	03/06/2025	Piezo Well	22.81

Page No.1 of 1

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Abhishek Tiwari

Reviewed & Authorized by
Rajendra Yadav

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Corporate Office

Emara Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011 (Haryana)



TEST REPORT

Name & Address of Unit: **M/s. Prism Johnson Limited.
(Unit- Cement Division) At Village- Mankahari,
PO- Bathia, Dist-Satna, Madhya Pradesh.** Report No.: **JME/WL/250929001-011/N**
Ref. No.: **Nil**

Sample Description: **Ground Water Level Monitoring** Date of Reporting: **03/10/2025**
Client Representative **Mr. Sumitabh Dwivedi** Receipt Date: **29/09/2025**
(Name & Designation): **(Assistant General Manager- Environment)** Sample collected by: **JMELPL Team**

GROUND WATER LEVEL (IN METERS)

S. No.	Location	Date of Monitoring	Type of Well	Water Level (m bgl)
1.	Near Colony Gate	26/09/2025	Piezo Well	4.55
2.	Front of Den	26/09/2025	Piezo Well	2.72
3.	Behind B-Block Colony	26/09/2025	Piezo Well	1.35
4.	Behind C-Block colony	26/09/2025	Piezo Well	1.34
5.	New Magazine Mines	26/09/2025	Piezo Well	14.32
6.	Ramprasan Mines	26/09/2025	Piezo Well	7.5
7.	Western Block Mines	26/09/2025	Piezo Well	6.18
8.	Medhi Mine's	26/09/2025	Piezo Well	3.4
9.	Near Auto Work Shop	26/09/2025	Piezo Well	4.36
10.	Rose Garden Near Road	26/09/2025	Piezo Well	5.93
11.	Badarkha Mines	26/09/2025	Piezo Well	6.35

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Srishti Mehta



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Pallavi Verma

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TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250616016
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 54" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS:3025 (Part-11)	7.65	-	6.5 to 8.5	No Relaxation
2.	Colour	IS:3025 (Part 4)	BDL (DL 1.0)	Hazen Unit	5	15
3.	Taste	IS:3025 (Part-8)	Agreeable	-	Agreeable	Agreeable
4.	Turbidity	IS:3025 (Part-10)	BDL (DL 1.0)	NTU	1	5
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	435.0	mg/l	200	600
6.	Calcium as Ca	IS:3025 (Part-40)	88.52	mg/l	75	200
7.	Magnesium as Mg	IS:3025 (Part-46)	52.08	mg/l	30	100
8.	Chloride as Cl	IS:3025 (Part-32)	30.52	mg/l	250	1000
9.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	285.0	mg/l	200	600
10.	Residual free Chlorine	IS:3025 (Part-26)	BDL (DL 0.2)	mg/l	0.2	1.0
11.	Cyanide as CN	IS:3025 (Part-27)	BDL (DL 0.02)	mg/l	0.05	No Relaxation
12.	Total Dissolved Solids	IS:3025 (Part-16)	535.0	mg/l	500	2000
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	90.52	mg/l	200	400
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	0.52	mg/l	1	1.5

Page No. 1 of 2

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Abhishek Tiwari

Reviewed & Authorized by
Rajkumar Yerav

Note:

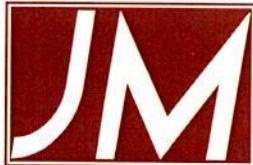
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TEST REPORT

Sample Number: JME/PJCL/W/16

Report No.: JME/W/250616016

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
15.	Nitrate as NO ₃ -N	IS:3025 (Part-34)	1.45	mg/l	45	No Relaxation
16.	Iron as Fe	IS:3025 (Part-53)	0.06	mg/l	1	No Relaxation
17.	Phenols	APHA (23rd edition) 5540-Phenol-C/D	BDL (DL 0.05)	mg/l	0.001	0.002
18.	Hexa Chromium as Cr ⁶⁺	IS:3025 (Part-52)	BDL (DL 0.001)	mg/l	-	-
19.	Boron	IS:3025 (Part-57)	BDL (DL 0.03)	mg/l	0.5	2.4
20.	Aluminium as Al	IS:3025 (Part-55)	BDL (DL 0.2)	mg/l	0.03	0.2
21.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	BDL (DL 0.03)	mg/l	0.2	1
22.	Arsenic as As	IS:3025 (Part-37)	BDL (DL 0.02)	mg/l	0.01	No Relaxation
23.	Mercury as Hg	IS:3025 (Part-48)	BDL (DL 0.002)	mg/l	0.001	No Relaxation
24.	Selenium as Se	IS:3025 (Part-56)	BDL (DL 0.001)	mg/l	0.01	No Relaxation
25.	Cadmium as Cd	IS:3025 (Part-41)	BDL (DL 0.005)	mg/l	0.003	No Relaxation
26.	Lead as Pb	IS:3025 (Part-47)	BDL (DL 0.002)	mg/l	0.01	No Relaxation
27.	Zinc as Zn	IS:3025 (Part-49)	BDL (DL 0.008)	mg/l	5	15
28.	Manganese as Mn	IS:3025 (Part-59)	BDL (DL 0.1)	mg/l	0.1	0.3
29.	Copper as Cu	IS:3025 (Part-42)	BDL (DL 0.08)	mg/l	0.05	1.5

Note: BDL- Below Detection Limit, DL- Detection Limit

Page No. 2 of 2

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Raikumar Yadav

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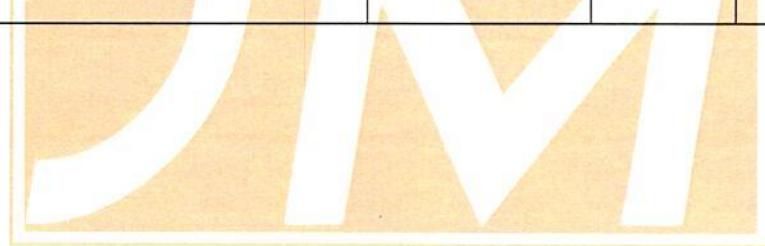
TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250616016/N
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 54" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 250 ml

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	Odour	IS:3025 (Part-5)	Agreeable	-	Agreeable	Agreeable
2.	Total Coliform	IS 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample	
3.	E-Coli	IS 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample	

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Kumari Bhumika

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Vineet Kumar

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CIN No. :U74220HR2011PTC085766



TC-6821

TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250923016
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Baghahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 54" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
1.	pH (at 25 °C)	IS:3025 (Part-11)	7.51	-	6.5 to 8.5	No Relaxation
2.	Colour	IS:3025 (Part 4)	BDL (DL 1.0)	Hazen Unit	5	15
3.	Odour	IS:3025 (Part-5)	Agreeable	-	Agreeable	Agreeable
4.	Taste	IS:3025 (Part-8)	Agreeable	-	Agreeable	Agreeable
5.	Turbidity	IS:3025 (Part-10)	BDL (DL 1.0)	NTU	1	5
6.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	421.0	mg/l	200	600
7.	Calcium as Ca	IS:3025 (Part-40)	80.64	mg/l	75	200
8.	Magnesium	IS:3025 (Part-46)	53.46	mg/l	30	100
9.	Chloride as Cl	IS:3025 (Part-32)	36.18	mg/l	250	1000
10.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	296.0	mg/l	200	600
11.	Residual Chlorine	IS:3025 (Part-26)	BDL (DL 0.2)	mg/l	0.2	1.0
12.	Cyanide	IS:3025 (Part-27) sec 1	BDL (DL 0.02)	mg/l	0.05	No Relaxation
13.	Total Dissolved Solid	IS:3025 (Part-16)	588.0	mg/l	500	2000
14.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	96.33	mg/l	200	400
15.	Fluoride as F	APHA 24th Edition, 4500-F- D	0.62	mg/l	1	1.5
16.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	1.12	mg/l	45	No Relaxation
17.	Iron	IS:3025 (Part-53)	0.09	mg/l	1	No Relaxation

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TEST REPORT

Sample Number: JME/PJCL/W/16

Report No.: JME/W/250923016

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012	
					Requirement (Acceptable Limit)	Permissible Limit in the Absence of Alternate Source
18.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	BDL (DL 0.001)	mg/l	0.001	0.002
19.	Anionic Surfactant	APHA 24th Edition, 5540-C	BDL (DL 0.02)	mg/l	0.2	1
20.	Hexa Chromium as Cr6+	IS:3025 (Part-52)	BDL (DL 0.03)	mg/l	-	-
21.	Boron as B	IS:3025 (Part-57)	BDL (DL 0.2)	mg/l	0.5	2.4
22.	Aluminium	IS:3025 (Part-55)	BDL (DL 0.03)	mg/l	0.03	0.2
23.	Arsenic	IS:3025 (Part-37)	BDL (DL 0.002)	mg/l	0.01	No Relaxation
24.	Mercury	IS:3025 (Part-48)	BDL (DL 0.001)	mg/l	0.001	No Relaxation
25.	Selenium	IS:3025 (Part-56)	BDL (DL 0.005)	mg/l	0.01	No Relaxation
26.	Cadmium	IS:3025 (Part-41)	BDL (DL 0.002)	mg/l	0.003	No Relaxation
27.	Lead	IS:3025 (Part-47)	BDL (DL 0.008)	mg/l	0.01	No Relaxation
28.	Zinc	IS:3025 (Part-49)	BDL (DL 0.1)	mg/l	5	15
29.	Manganese	IS:3025 (Part-59)	BDL (DL 0.08)	mg/l	0.1	0.3
30.	Copper	IS:3025 (Part-42)	BDL (DL 0.02)	mg/l	0.05	1.5

Note: BDL- Below Detection Limit, DL- Detection Limit

Page No. 2 of 3

Srishti
Checked by
Srishti Mehta



Reviewed & Authorized by
Pallavi Verma

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Ext. Road, Sector-61, Gurugram-122011(Haryana)



TEST REPORT

Sample Number:	JME/PJCL/W/16	Report No.:	JME/W/250923016
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village-Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Ground Water	Party Reference:	NIL
Sampling Location:	Bagahai LS Mine Drinking Ground Water (Mine Site office)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 54" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 27" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 250 ml

TEST RESULTS

Sl. No.	Parameters	Testing Protocol	Result	Unit	Specification as per IS 10500- 2012
1.	Total Coliform	IS: 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample
2.	E-Coli	IS: 15185	Absent	per 100ml	Shall not be detectable in any 100ml sample

Page No. 3 of 3

Checked by
vineet Kumar

Checked by
vineet Kumar



Reviewed & Authorized by
Kumari Bhumika

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TEST REPORT

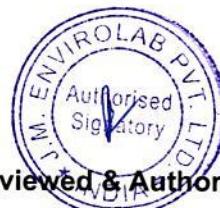
Sample Number:	JME/PJCL/SW/05	Report No.:	JME/W/250616005
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahal Limestone Mines, Area 512.317 ha, Village- Baghahal, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Baghahal Mines Pit (Discharge Water)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 33' 38" N	Sampling Date:	14/06/2025
Longitude:	81° 2' 32" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.86
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	325.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	84.52
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	160.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	31.55
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	27.75
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	468.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO4-C/D/E	mg/l	145.0
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.96
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	0.42
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	BDL (DL 0.02)
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

Page 1 of 2

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Abhishek Tiwari

Reviewed & Authorized by
Kaikumar Yadav

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TEST REPORT

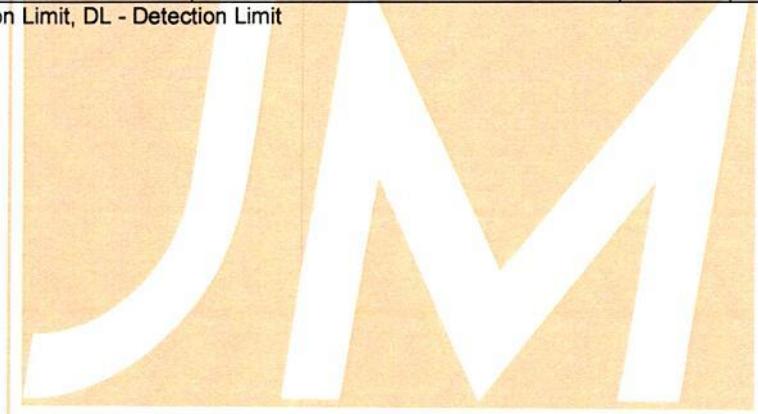
Sample Number: JME/PJCL/SW/05

Report No.: JME/SW/250616005

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	3.6
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	3.4
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	12.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	26.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	4.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	721.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	8.1

Note: BDL – Below Detection Limit, DL - Detection Limit

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Abhishek Tiwari

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TEST REPORT

Sample Number:	JME/PJCL/SW/06	Report No.:	JME/W/250616006
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Tamas River	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 35' 31" N	Sampling Date:	14/06/2025
Longitude:	81° 0' 20" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.63
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	253.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	55.89
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	175.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	30.55
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	27.62
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	295.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	mg/l	16.88
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.36
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	1.52
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	0.09
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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Rajesh Yadav

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TEST REPORT

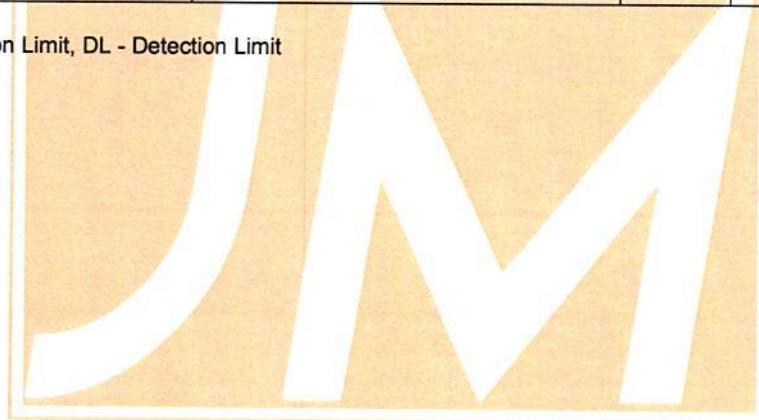
Sample Number: JME/PJCL/SW/06

Report No.: JME/SW/250616006

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	5.9
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	5.5
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	19.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	16.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	2.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	455.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	7.5

Note: BDL – Below Detection Limit, DL - Detection Limit

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Abhishek Tiwari



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Ext. Road, Sector-61, Gurugram-122011(Haryana)



TEST REPORT

Sample Number:	JME/PJCL/SW/07	Report No.:	JME/W/250616007
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Nar Nala Bridge (Beside Baghai Mine)	Reporting Date:	20/06/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	20/06/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	16/06/2025
Parameter Required:	As per work order	Receipt Date:	16/06/2025
Latitude:	24° 34' 26" N	Sampling Date:	14/06/2025
Longitude:	81° 1' 47" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 40°C; Cloudy Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.92
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	236.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	36.55
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	103.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	14.88
9.	Residual Free Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27)	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	35.22
12.	Total Dissolved Solids	IS:3025 (Part-16)	mg/l	518.0
13.	Sulphate as SO ₄	APHA 23rd Edition, 4500-SO ₄ -C/D/E	mg/l	165.0
14.	Fluoride as F	APHA 23rd Edition, 4500-F- D	mg/l	0.76
15.	Nitrate as NO ₃	IS:3025 (Part-34)	mg/l	1.52
16.	Iron as Fe	IS:3025 (Part-53)	mg/l	0.10
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron	IS:3025 (Part-57)	mg/l	BDL (DL 0.20)
19.	Phenolic Compounds	APHA 23rd edition 5540-Phenol-C/D	mg/l	BDL (DL 0.001)
20.	Anionic Detergents as MBAS	APHA 23rd Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc as Zn	IS:3025 (Part-49)	mg/l	BDL (DL 0.0005)
23.	Copper as Cu	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

Checked by
Ahhishek Tiwari

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Raikumar Yadav

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TEST REPORT

Sample Number: JME/PJCL/SW/07

Report No.: JME/SW/250616007

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.01)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	6.2
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	6.0
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	21.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	35.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	6.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	798.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	8.4

Note: BDL – Below Detection Limit, DL - Detection Limit

Page 2 of 2

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Abhishek Tiwari



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Rajkumar Yadav

Note:

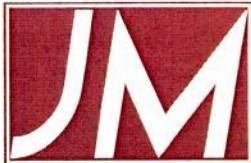
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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/SW/05	Report No.:	JME/SW/250923009
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Baghahai Mines Pit (Discharge Water)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 33' 38" N	Sampling Date:	22/09/2025
Longitude:	81° 2' 32" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.72
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	311.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	76.26
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	152.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	35.26
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	29.36
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	483.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	153.0
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.83
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	0.56
16.	Iron	IS:3025 (Part-53)	mg/l	BDL (DL 0.02)
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)



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TEST REPORT

Sample Number: **JME/PJCL/SW/05**

Report No.: **JME/SW/250923009**

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate	APHA 24th Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	BDL (DL 1.0)
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	3.7
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	13.0
33.	Sodium	IS:3025 (Part-45)	mg/l	29.0
34.	Potassium	IS:3025 (Part-45)	mg/l	3.0
35.	Conductivity	APHA 24th Edition, 2510 B	µs/cm	473.0
36.	Nickel	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-38)	mg/l	5.3

Note: BDL – Below Detection Limit, DL - Detection Limit

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TEST REPORT

Sample Number:	JME/PJCL/SW/06	Report No.:	JME/SW/250923010
Name & Address of Unit:	M/s. Prism Johnson Limited Baghahai Limestone Mines, Area 512.317 ha, Village- Baghahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Tamas River	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 35' 31" N	Sampling Date:	22/09/2025
Longitude:	81° 0' 20" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.23
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	241.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	49.31
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	169.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	25.34
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	28.69
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	309.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	12.54
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.43
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	1.33
16.	Iron	IS:3025 (Part-53)	mg/l	0.06
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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TEST REPORT

Sample Number: JME/PJCL/SW/06

Report No.: JME/SW/250923010

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate	APHA 24th Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	6.1
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	4.3
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	15.0
33.	Sodium	IS:3025 (Part-45)	mg/l	20.0
34.	Potassium	IS:3025 (Part-45)	mg/l	4.0
35.	Conductivity	APHA 24th Edition, 2510 B	µs/cm	475.0
36.	Nickel	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-38)	mg/l	5.1

Note: BDL – Below Detection Limit, DL - Detection Limit

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TEST REPORT

Sample Number:	JME/PJCL/SW/07	Report No.:	JME/SW/250923011
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-01
Sample Description:	Surface Water	Party Reference:	NIL
Sampling Location:	Nar Nala Bridge (Beside Baghai Mine)	Reporting Date:	30/09/2025
Client Representative (Name & Designation):	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)	Analysis Completion Date:	30/09/2025
Sample collected by:	JMELPL Team	Analysis Start Date:	23/09/2025
Parameter Required:	As per work order	Receipt Date:	23/09/2025
Latitude:	24° 34' 26" N	Sampling Date:	22/09/2025
Longitude:	81° 1' 47" E	Sampling Type:	Grab
Sampling Protocol:	JMELPL/STOP/04	Preservation:	Refrigerated
		Packing Status:	Temporary Sealed
		Environmental Condition During Sampling:	Temp. 30°C; Clear Sky
		Sample Quantity:	Approx. 5.0 Litre

TEST RESULTS

S. No.	Parameters	Testing Protocol	Unit	Result
1.	pH (at 25 °C)	IS:3025 (Part-11)	-	7.85
2.	Colour	IS:3025 (Part-4)	Hazen	BDL (DL 1.0)
3.	Turbidity	IS:3025 (Part-10)	NTU	BDL (DL 1.0)
4.	Odour	IS:3025 (Part-5)	-	Agreeable
5.	Total Hardness as CaCO ₃	IS:3025 (Part-21)	mg/l	227.0
6.	Calcium as Ca	IS:3025 (Part-40)	mg/l	30.16
7.	Alkalinity as CaCO ₃	IS:3025 (Part-23)	mg/l	110.0
8.	Chloride as Cl	IS:3025 (Part-32)	mg/l	16.34
9.	Residual Chlorine	IS:3025 (Part-26)	mg/l	BDL (DL 0.2)
10.	Cyanide	IS:3025 (Part-27) sec 1	mg/l	BDL (DL 0.02)
11.	Magnesium as Mg	IS:3025 (Part-46)	mg/l	36.91
12.	Total Dissolved Solid	IS:3025 (Part-16)	mg/l	539.0
13.	Sulphate as SO ₄	APHA 24th Edition, 4500-SO ₄ -E	mg/l	177.0
14.	Fluoride as F	APHA 24th Edition, 4500-F- D	mg/l	0.72
15.	Nitrate Nitrogen as NO ₃	IS:3025 (Part-34) sec 1: Para 6.3, Cadmium reduction method	mg/l	1.22
16.	Iron	IS:3025 (Part-53)	mg/l	0.07
17.	Aluminium	IS:3025 (Part-55)	mg/l	BDL (DL 0.03)
18.	Boron as B	IS:3025 (Part-57)	mg/l	BDL (DL 0.2)
19.	Phenols	APHA 24th Edition 5530-Phenol-D, Direct Photometric	mg/l	BDL (DL 0.001)
20.	Anionic Surfactant	APHA 24th Edition, 5540-C	mg/l	BDL (DL 0.02)
21.	Hexa Chromium as Cr+6	IS:3025 (Part-52)	mg/l	BDL (DL 0.03)
22.	Zinc	IS:3025 (Part-49)	mg/l	BDL (DL 0.1)
23.	Copper	IS:3025 (Part-42)	mg/l	BDL (DL 0.02)

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CIN No. :U74220HR2011PTC085756



TEST REPORT

Sample Number: JME/PJCL/SW/07

Report No.: JME/SW/250923011

S. No.	Parameters	Testing Protocol	Unit	Result
24.	Manganese as Mn	IS:3025 (Part-59)	mg/l	BDL (DL 0.08)
25.	Lead as Pb	IS:3025 (Part-47)	mg/l	BDL (DL 0.008)
26.	Selenium as Se	IS:3025 (Part-56)	mg/l	BDL (DL 0.005)
27.	Arsenic as As	IS:3025 (Part-37)	mg/l	BDL (DL 0.002)
28.	Mercury as Hg	IS:3025 (Part-48)	mg/l	BDL (DL 0.001)
29.	Phosphate as Po4	APHA 23rd Edition, 4500-P-C/D	mg/l	BDL (DL 0.02)
30.	Total Suspended Solid	IS:3025 (Part-17)	mg/l	7.6
31.	Biochemical Oxygen Demand	IS:3025 (Part-44)	mg/l	5.2
32.	Chemical Oxygen Demand	IS:3025 (Part-58)	mg/l	18.0
33.	Sodium as Na	IS:3025 (Part-45)	mg/l	30.0
34.	Potassium as K	IS:3025 (Part-45)	mg/l	7.0
35.	Conductivity	IS:3025 (Part-14)	µs/cm	829.0
36.	Nickel as Ni	IS:3025 (Part-54)	mg/l	BDL (DL 0.005)
37.	Dissolve Oxygen	IS:3025 (Part-54)	mg/l	5.1

Note: BDL – Below Detection Limit, DL - Detection Limit

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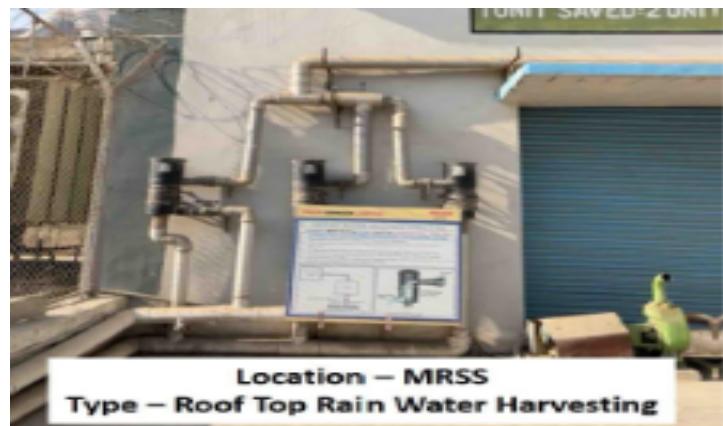
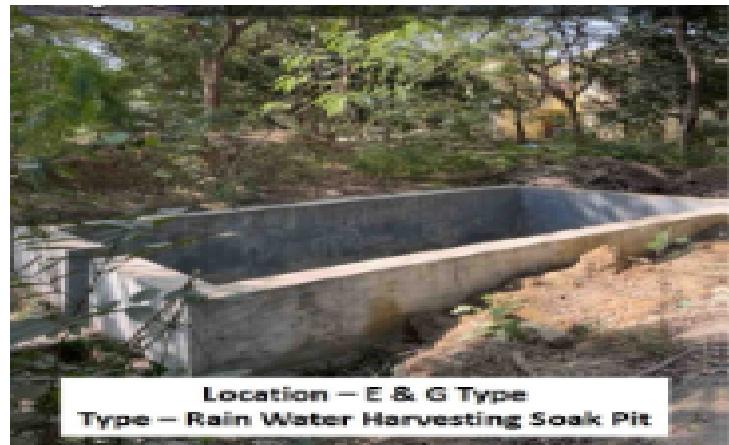
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Annexure 24(Rain water harvesting)
Rainwater Harvesting structure photographs







At DIC Land

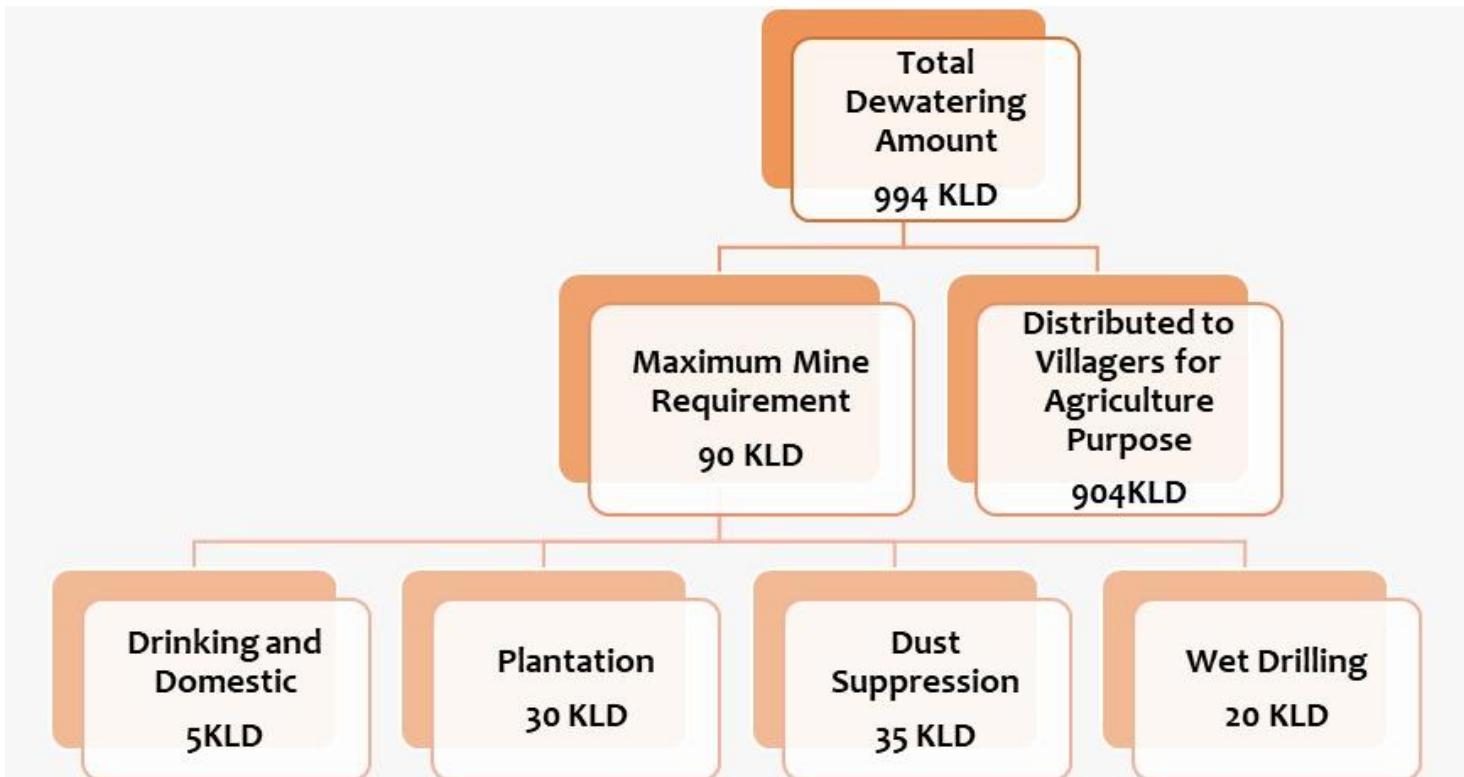


At Cafeteria



Behind B-type

Annexure 25: Water balance table



Event Report

Date/Time: Vert at 12:40:16 January 24, 2025
 Trigger Source: Geo: 0.510 mm/s
 Range: Geo : 31.7 mm/s
 Record Time: 2.0 sec at 1024 sps
 Job Number: 2
 Notes:
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Microphone: Linear Weighting
 PSPL: <0.500 pa.(L) at -0.001 sec
 ZC Freq: N/A
 Channel Test: Passed (Freq = 20.1 Hz Amp = 466 mv)

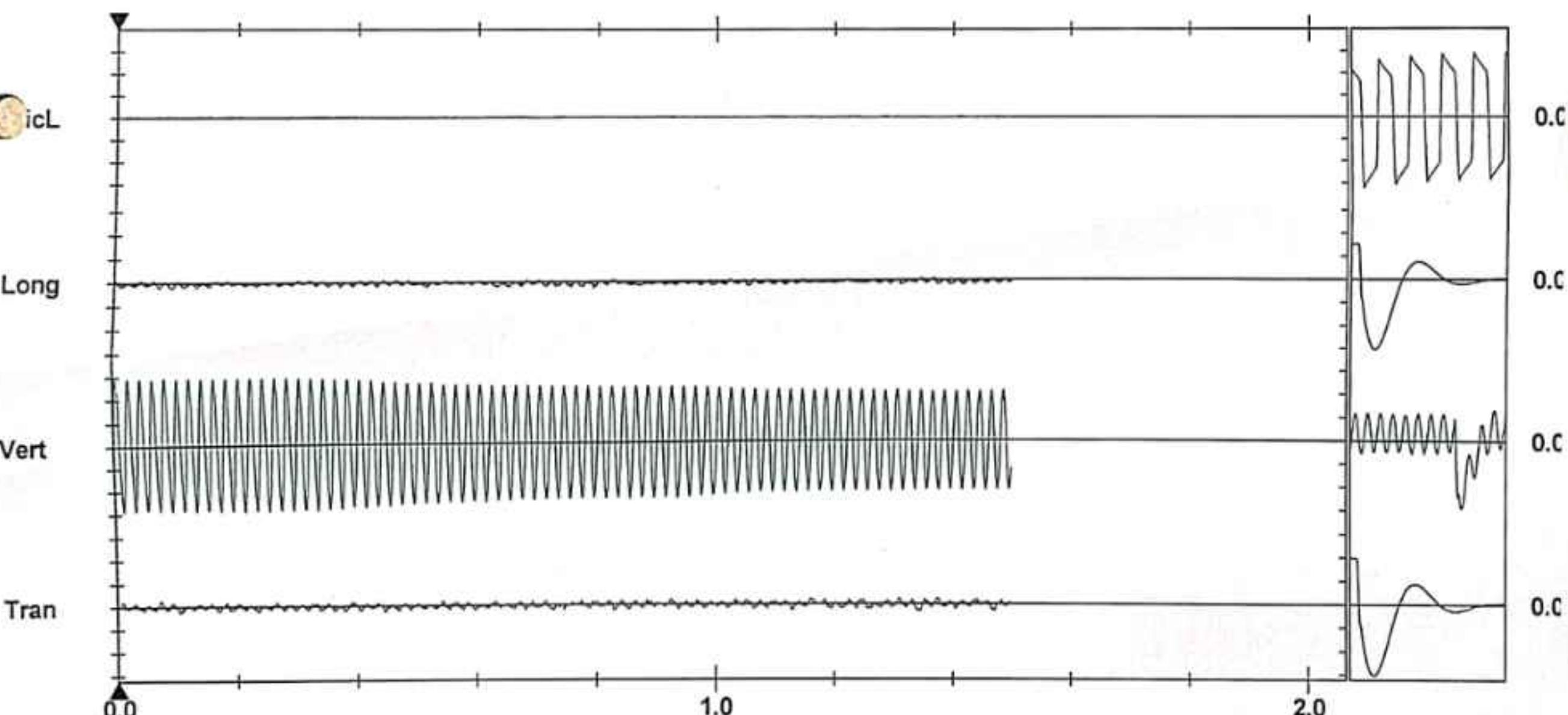
	Tran	Vert	Long	
PPV	0.159	1.46	0.127	mm/s
ZC Freq	37	51	39	Hz
Time (Rel. to Trig)	1.343	0.004	0.794	sec
Peak Acceleration	0.00663	0.0497	0.00829	g
Peak Displacement	0.00074	0.00453	0.00067	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	37.9	7.5	Hz
Overswing Ratio	3.4	2.1	4.0	

Peak Vector Sum: 1.46 mm/s at 0.084 sec

N/A: Not Applicable

Monitor Log

Jan 24 /25 12:40:16 Jan 24 /25 12:40:18 Event recorded. (Keyboard Exit)



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div
 Trigger = ►—————◀

Sensor Check

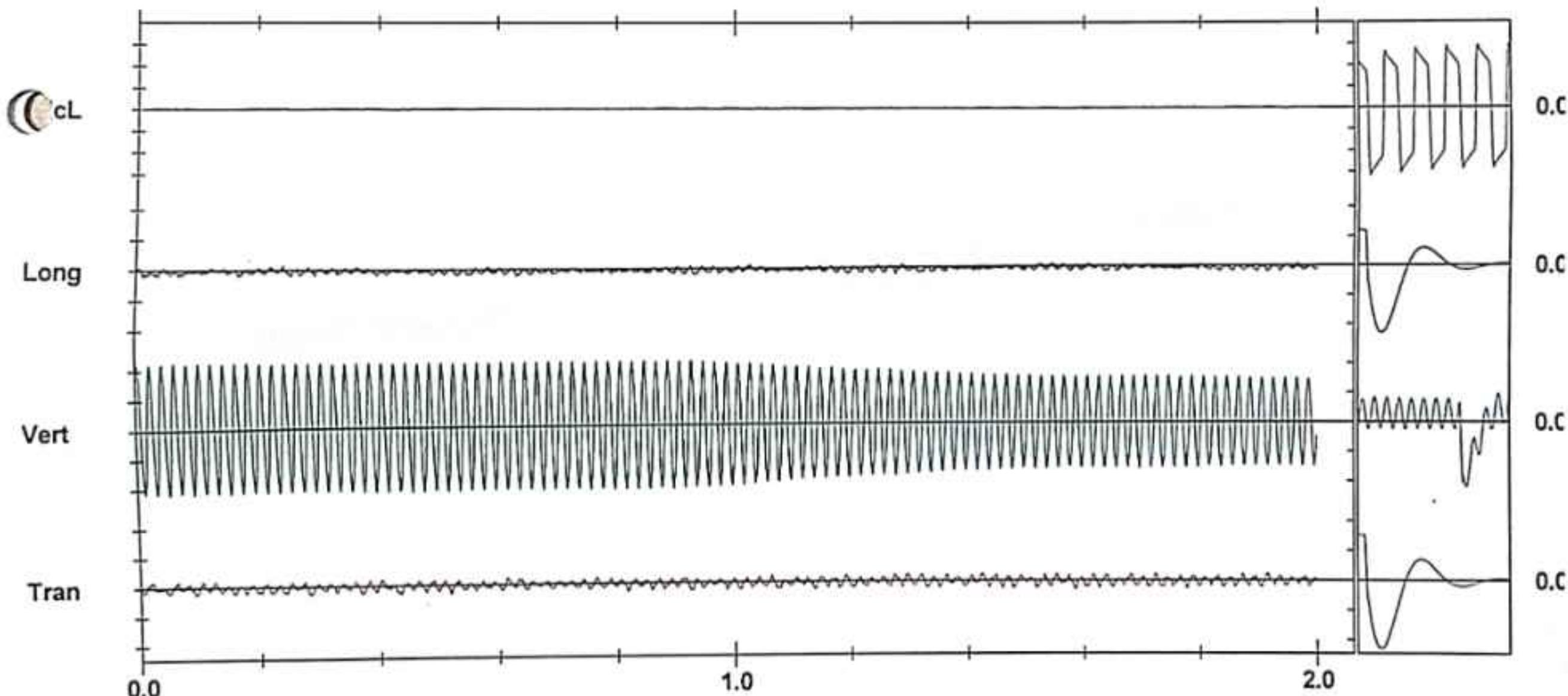
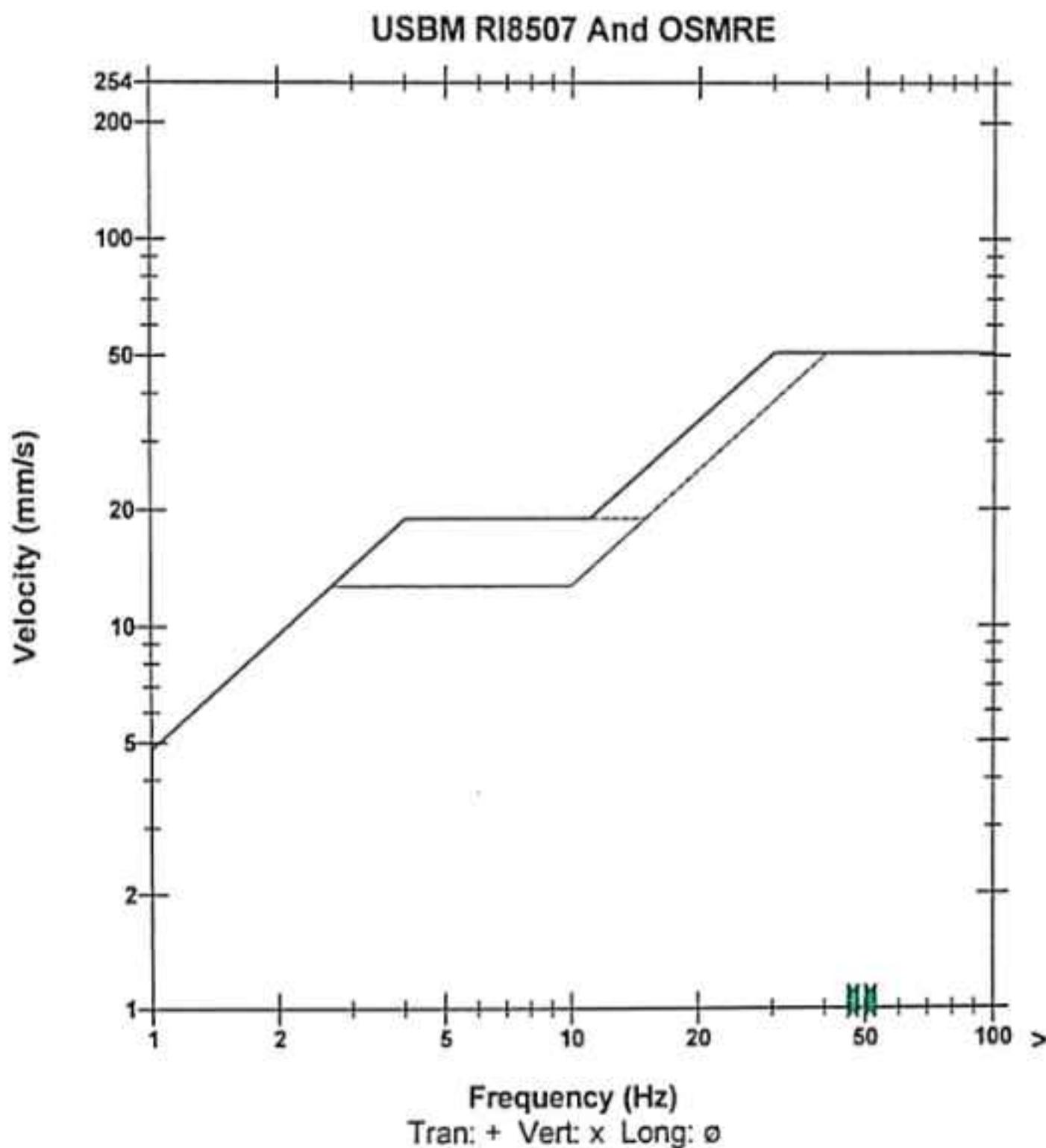
Date/Time Vert at 13:03:34 February 14, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo : 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghali Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF
 HOLE=37 NOS, CHARGE/HOLE=38.51
 KG, CHARGE/DELAY=38.51 KG

Microphone Linear Weighting
 PSPL <0.500 pa.(L) at 0.000 sec
 ZC Freq N/A
 Channel Test Passed (Freq = 20.1 Hz Amp = 478 mv)

	Tran	Vert	Long	
PPV	0.159	1.11	0.111	mm/s
ZC Freq	47	47	43	Hz
Time (Rel. to Trig)	1.585	0.063	1.273	sec
Peak Acceleration	0.00829	0.0381	0.00663	g
Peak Displacement	0.00064	0.00350	0.00052	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.8	35.3	7.4	Hz
Overswing Ratio	3.3	3.0	3.9	

Peak Vector Sum 1.12 mm/s at 0.063 sec
 N/A: Not Applicable



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

Date/Time Vert at 14:43:05 March 27, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo: 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghali Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300, NO OF HOLE
 =38 NOS, CHARGE/HOLE =24.34KG, CHARGE/DELAY=24.34 KG,

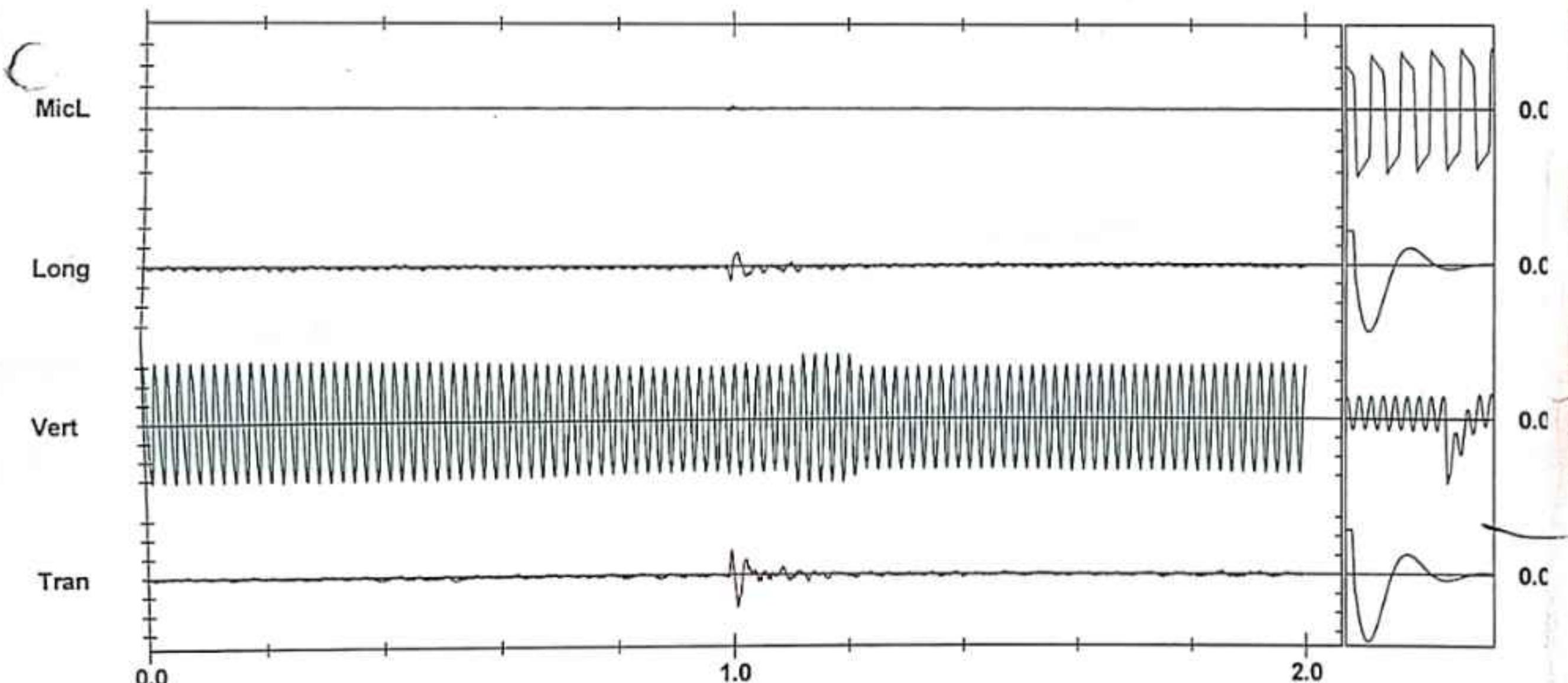
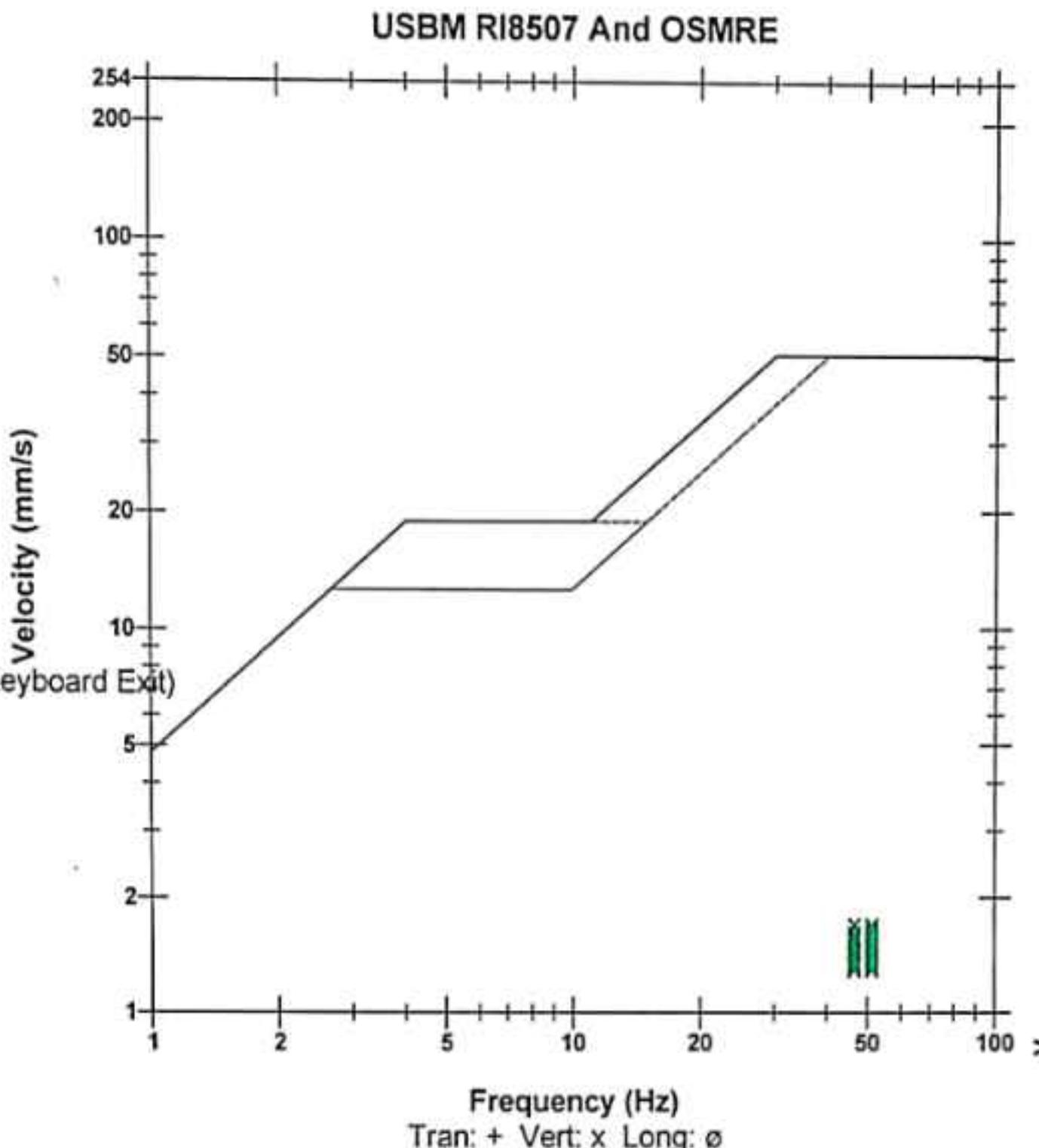
Microphone Linear Weighting
 PSPL 1.25 pa.(L) at 0.997 sec
 ZC Freq 47 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 488 mv)

PPV	Tran	Vert	Long	
	0.841	1.71	0.365	mm/s
ZC Freq	37	47	37	Hz
Time (Rel. to Trig)	1.008	1.120	0.994	sec
Peak Acceleration	0.0232	0.0613	0.0166	g
Peak Displacement	0.00340	0.00540	0.00172	mm
Peak Vector Check	Passed	Check	Passed	
Frequency	7.7	60.2	7.5	Hz
Overswing Ratio	3.4	0.5	4.0	

Peak Vector Sum 1.72 mm/s at 1.160 sec

Monitor Log

Mar 27 /25 14:43:05 Mar 27 /25 14:43:07 Event recorded. (Keyboard Exit)



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

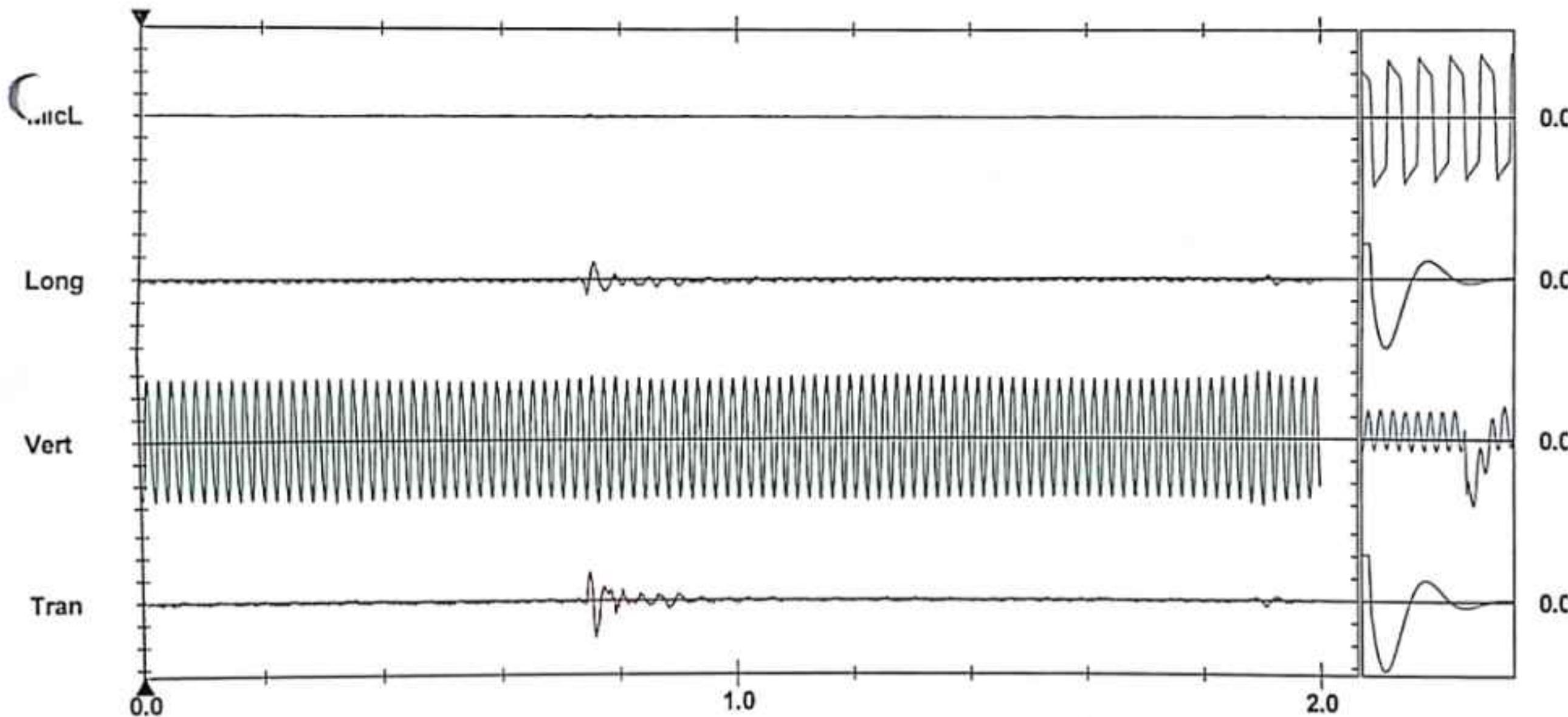
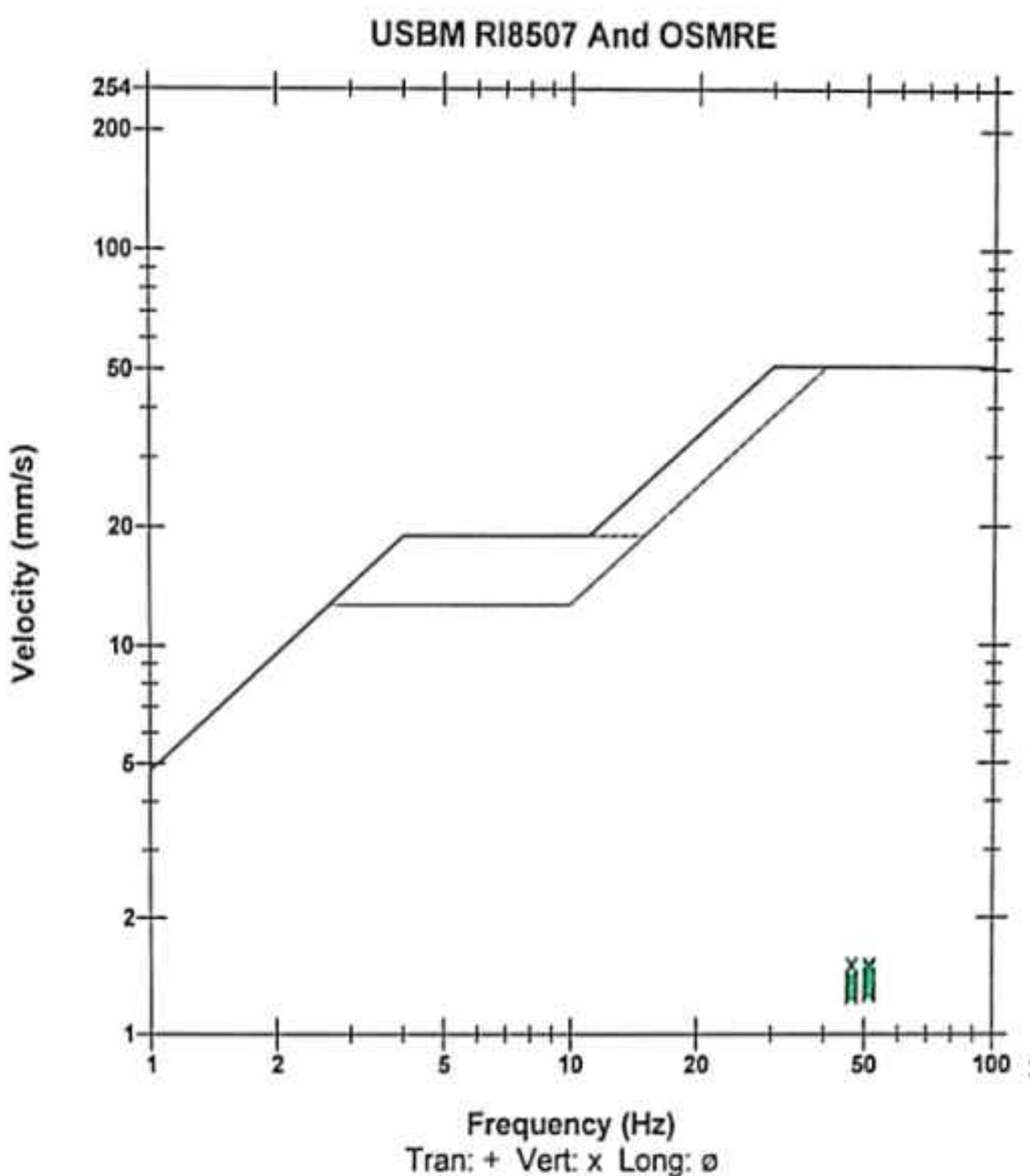
Date/Time: Vert at 12:57:41 April 11, 2025
 Trigger Source: Geo: 0.510 mm/s
 Range: Geo : 31.7 mm/s
 Record Time: 2.0 sec at 1024 sps
 Job Number: 2
 Notes:
 Location: Baghal Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Microphone: Linear Weighting
 PSPL: 1.00 pa.(L) at 0.748 sec
 ZC Freq: 64 Hz
 Channel Test: Passed (Freq = 20.1 Hz Amp = 482 mv)

	Tran	Vert	Long	
PPV	0.825	1.52	0.381	mm/s
ZC Freq	39	47	34	Hz
Time (Rel. to Trig)	0.758	1.892	0.756	sec
Peak Acceleration	0.0249	0.0530	0.0133	g
Peak Displacement	0.00336	0.00483	0.00186	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.3	37.9	7.4	Hz
Overswing Ratio	3.4	2.5	3.9	

Peak Vector Sum: 1.53 mm/s at 1.912 sec

Serial Number: BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level: 6.2 Volts
 Unit Calibration: January 3, 2025 by UES New Delhi
 File Name: TEMP.EVT
 Scalded Distance: 0.3 (0.1 m, 0.1 kg)
 Post Event Notes:
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF HOLE=80 NOS, CHARGE/HOLE=9.09 KG, CHARGE/DELAY=9.09 KG



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div
 Trigger = ►-----►

Sensor Check

Date/Time Vert at 13:21:53 May 21, 2025
 Trigger Source Geo: 0.510 mm/s
 Range Geo: 31.7 mm/s
 Record Time 2.0 sec at 1024 sps
 Job Number: 2
 Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

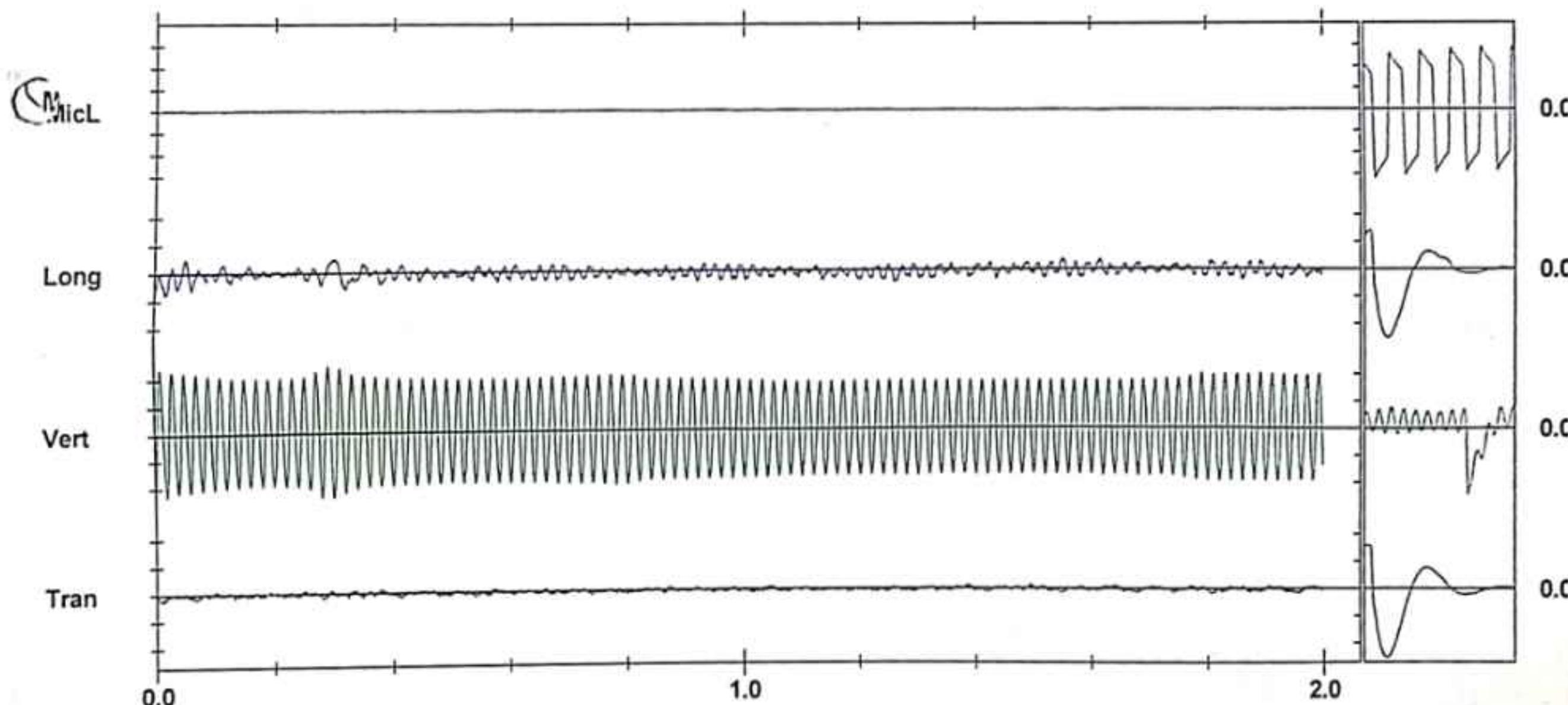
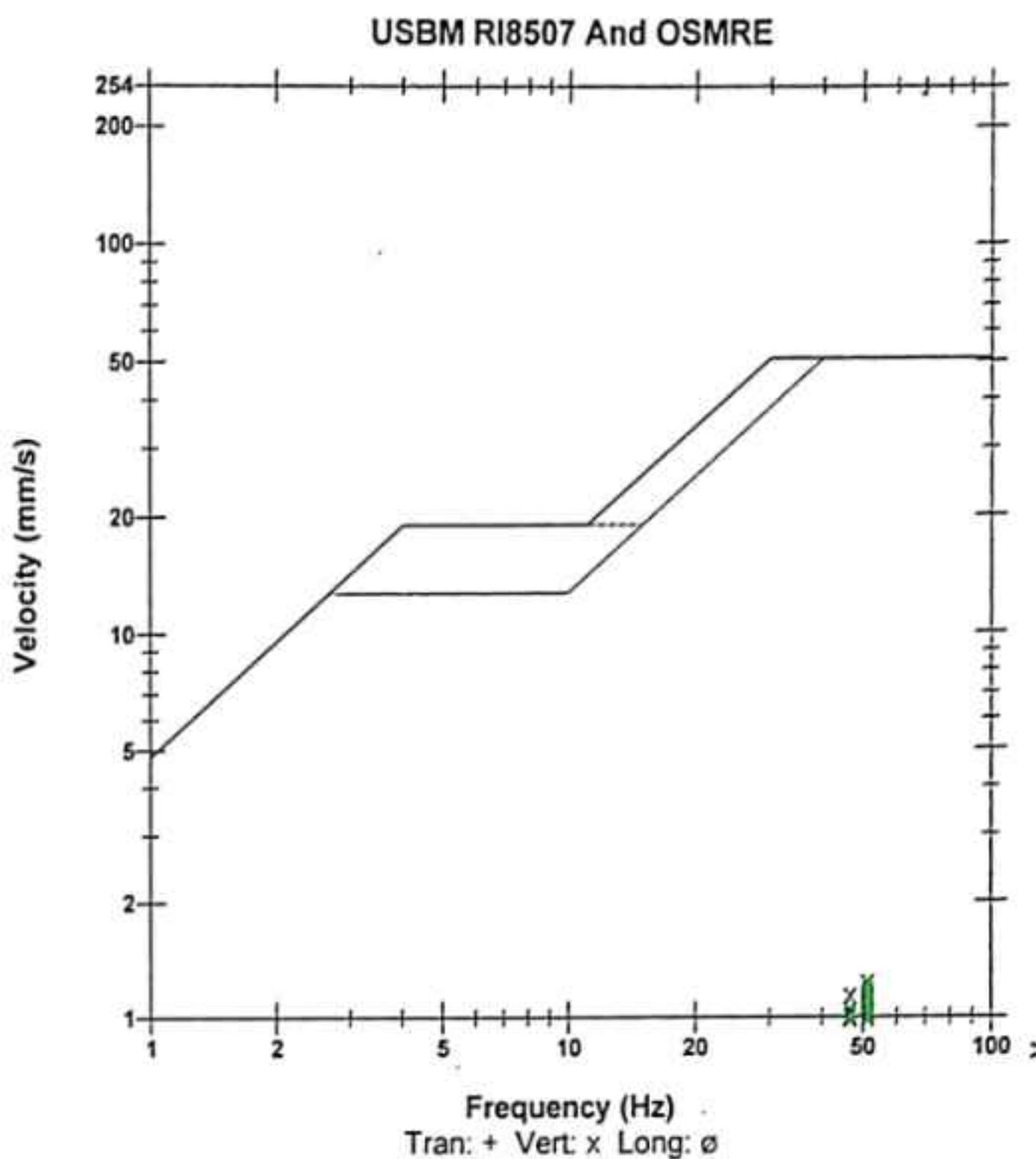
Microphone Linear Weighting
 PSPL 0.500 pa.(L) at 1.534 sec
 ZC Freq >100 Hz
 Channel Test Passed (Freq = 20.1 Hz Amp = 516 mv)

	Tran	Vert	Long	
PPV	0.127	1.24	0.381	mm/s
ZC Freq	N/A	51	19	Hz
Time (Rel. to Trig)	0.011	0.290	0.017	sec
Peak Acceleration	0.00663	0.0414	0.0116	g
Peak Displacement	0.00092	0.00390	0.00260	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.8	78.8	7.4	Hz
Overswing Ratio	3.3	0.2	4.0	

Peak Vector Sum 1.24 mm/s at 0.290 sec

N/A: Not Applicable

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
 Battery Level 6.2 Volts
 Unit Calibration January 3, 2025 by UES New Delhi
 File Name TEMP.EVT
 Scaled Distance 0.3 (0.1 m, 0.1 kg)
 Post Event Notes
 MINIMATE DISTANCE FROM BLASTING FACE =300 MTR, NO OF HOLE=15 NOS, CHARGE/HOLE=51.60 KG, DELAY/HOLE=51.60 KG



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 0.500 mm/s/div Mic: 10.00 pa.(L)/div

Sensor Check

Date/Time Manual at 13:45:46 June 7, 2025
Range Geo: 254.0 mm/s
Record Time 5.0 sec at 2048 sps

Serial Number BE15438 V 10.72-1.1 Minimate Blaster
Battery Level 6.6 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name Q438L3NC.WA0
Post Event Notes
 BAGHAI LIMESTONE MINES
 OBSERVATION DIST = 300 MTR, NO OF HOLES 25,
 CH./HOLE&DELAY 33.00 KGS.

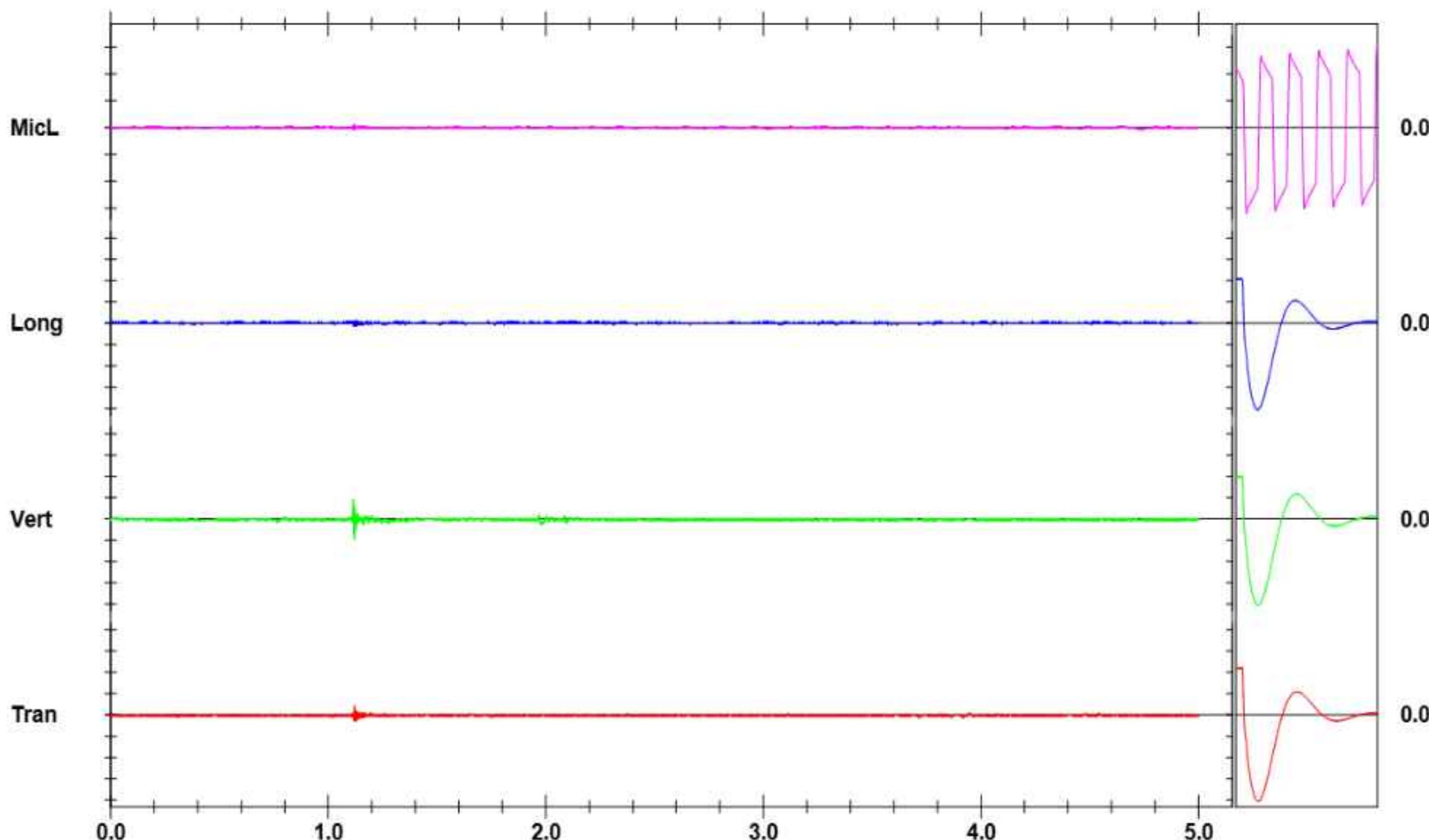
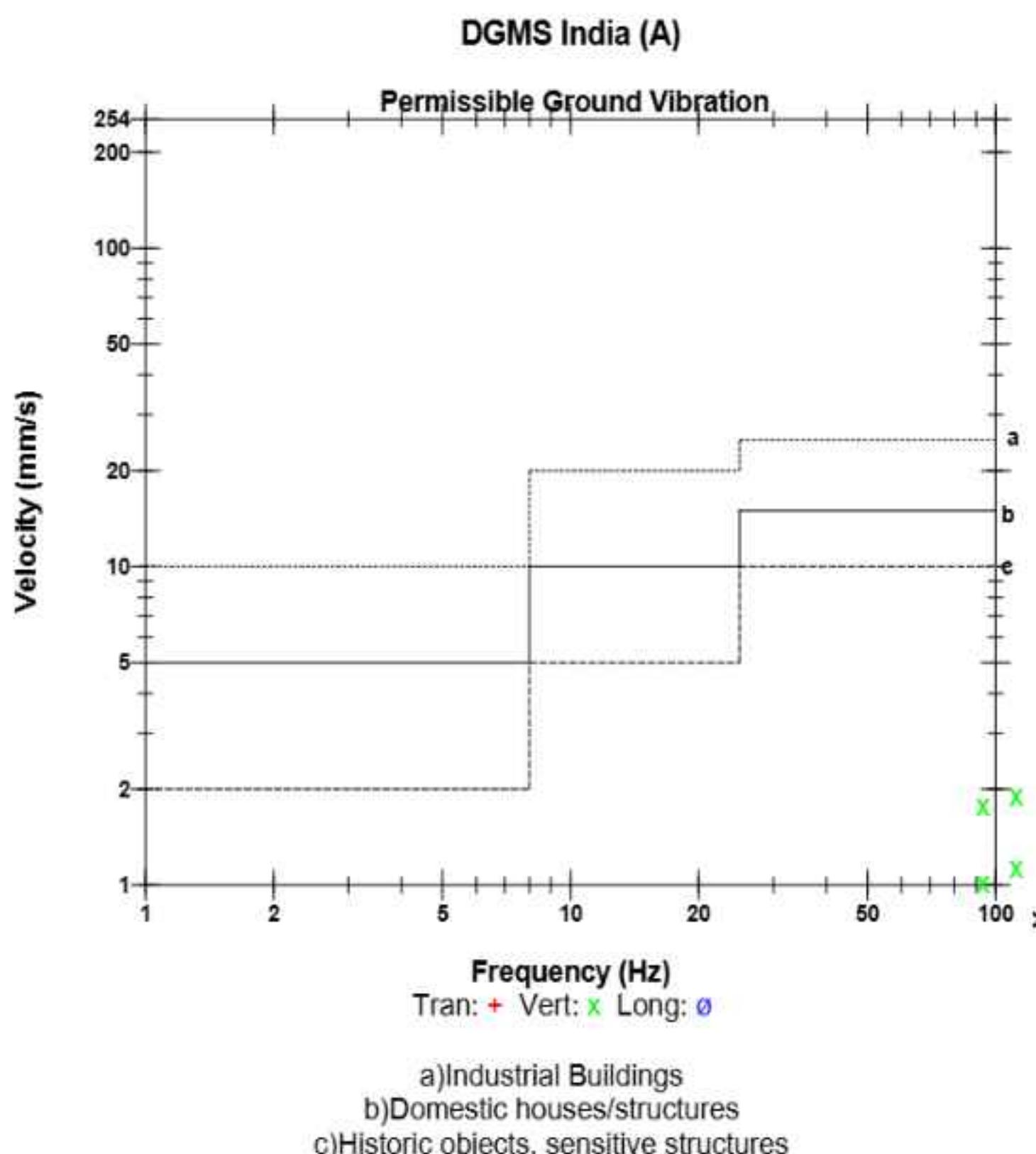
Notes

Extended Notes

Microphone Linear Weighting
PSPL 93.98 dB(L) at 1.120 sec
ZC Freq >200 Hz
Channel Test Passed (Freq = 19.7 Hz Amp = 545 mv)

	Tran	Vert	Long	
PPV	0.762	1.905	0.254	mm/s
PPV	48.64	56.60	39.10	dB
ZC Freq	171	102	>200	Hz
Time (Rel. to Trig)	1.120	1.120	1.116	sec
Peak Acceleration	0.080	0.186	0.053	g
Peak Displacement	0.001	0.004	0.000	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.7	Hz
Overswing Ratio	3.8	3.5	3.9	

Peak Vector Sum 2.067 mm/s at 1.120 sec



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div

Sensor Check

Date/Time Tran at 14:03:42 July 24, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 2.750 pa.(L) at -0.005 sec
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 493 mv)

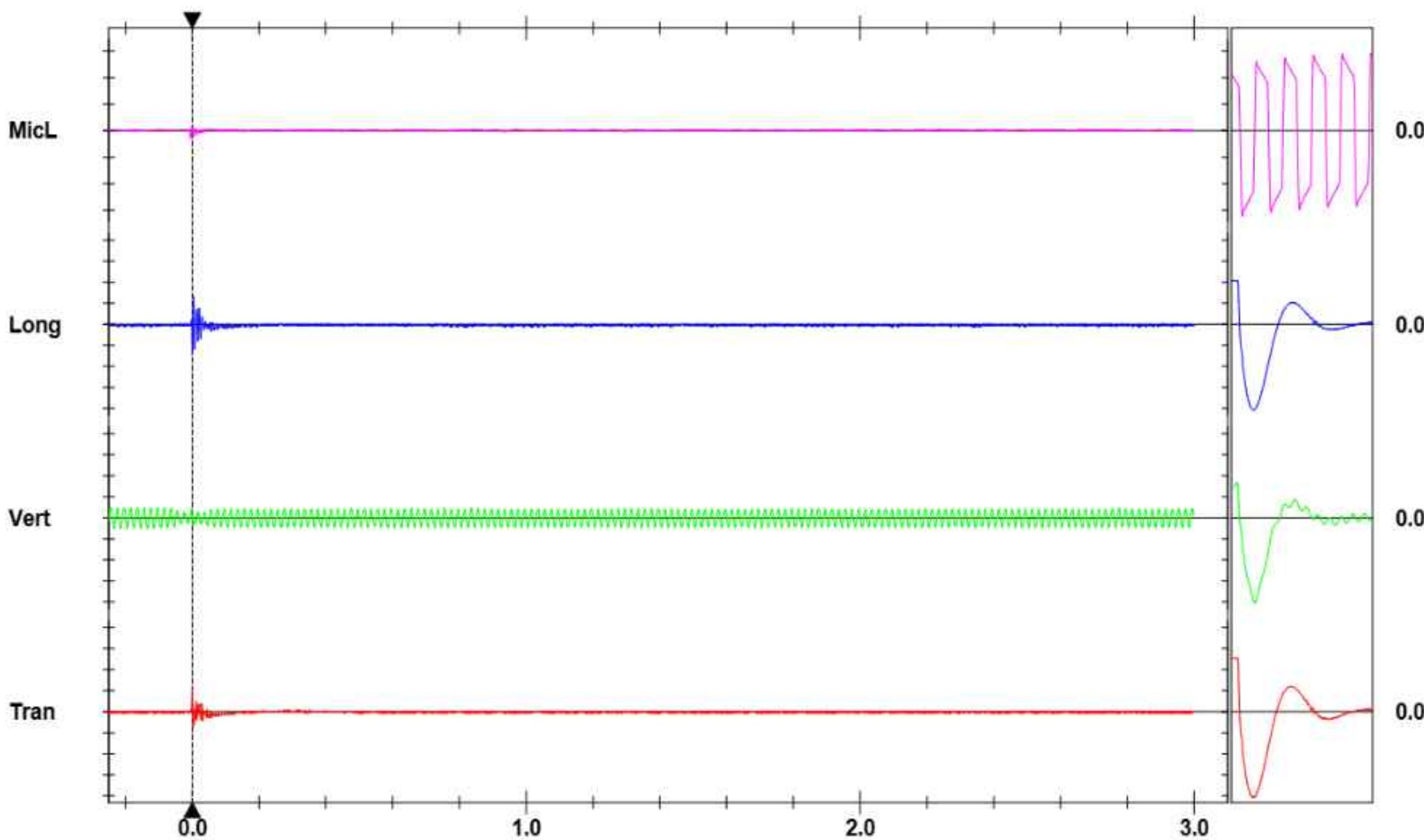
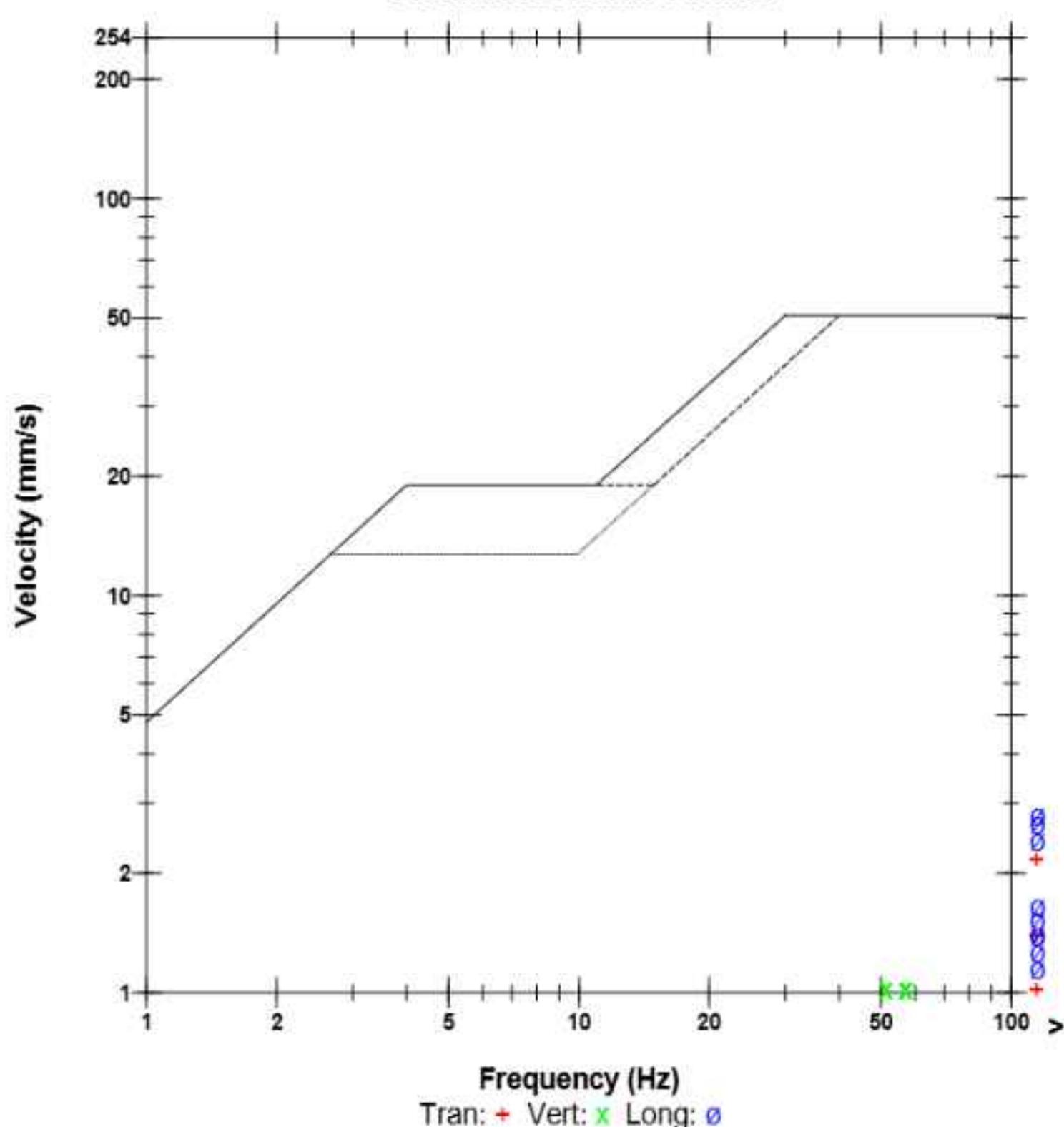
	Tran	Vert	Long	
PPV	2.159	1.016	2.794	mm/s
ZC Freq	>100	57	>100	Hz
Time (Rel. to Trig)	0.000	-0.234	0.000	sec
Peak Acceleration	0.186	0.066	0.239	g
Peak Displacement	0.006	0.003	0.003	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	7.2	7.4	Hz
Overswing Ratio	3.4	4.8	4.0	

Peak Vector Sum 3.540 mm/s at 0.000 sec

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.7 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L62F.260

Post Event Notes
 BGH/B9/ART/1ST Bench/LST,
 Nos. of Holes 26, Avg. Depth 9.89 Mtrs.,
 Avg. Ch./delay 51.9 Kgs.,
 Observation Dist. 300 Mtrs.

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger =

Sensor Check

Date/Time Vert at 14:48:07 August 7, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 1.000 pa.(L) at 0.007 sec
ZC Freq 51 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 547 mv)

	Tran	Vert	Long	
PPV	0.889	4.191	1.016	mm/s
ZC Freq	73	57	>100	Hz
Time (Rel. to Trig)	0.006	0.001	0.003	sec
Peak Acceleration	0.053	0.424	0.093	g
Peak Displacement	0.002	0.007	0.002	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.4	7.4	Hz
Overswing Ratio	3.5	3.6	3.9	

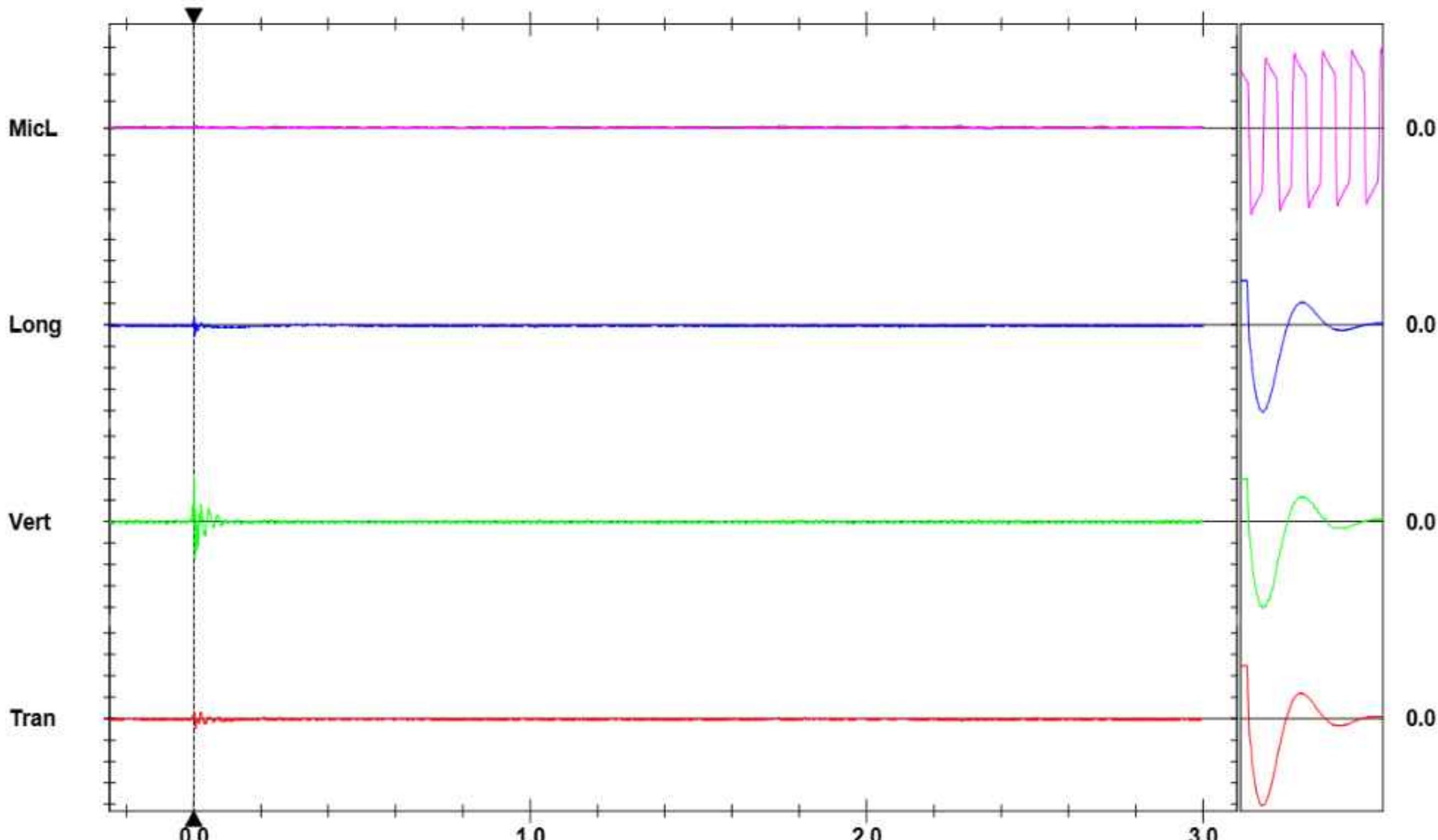
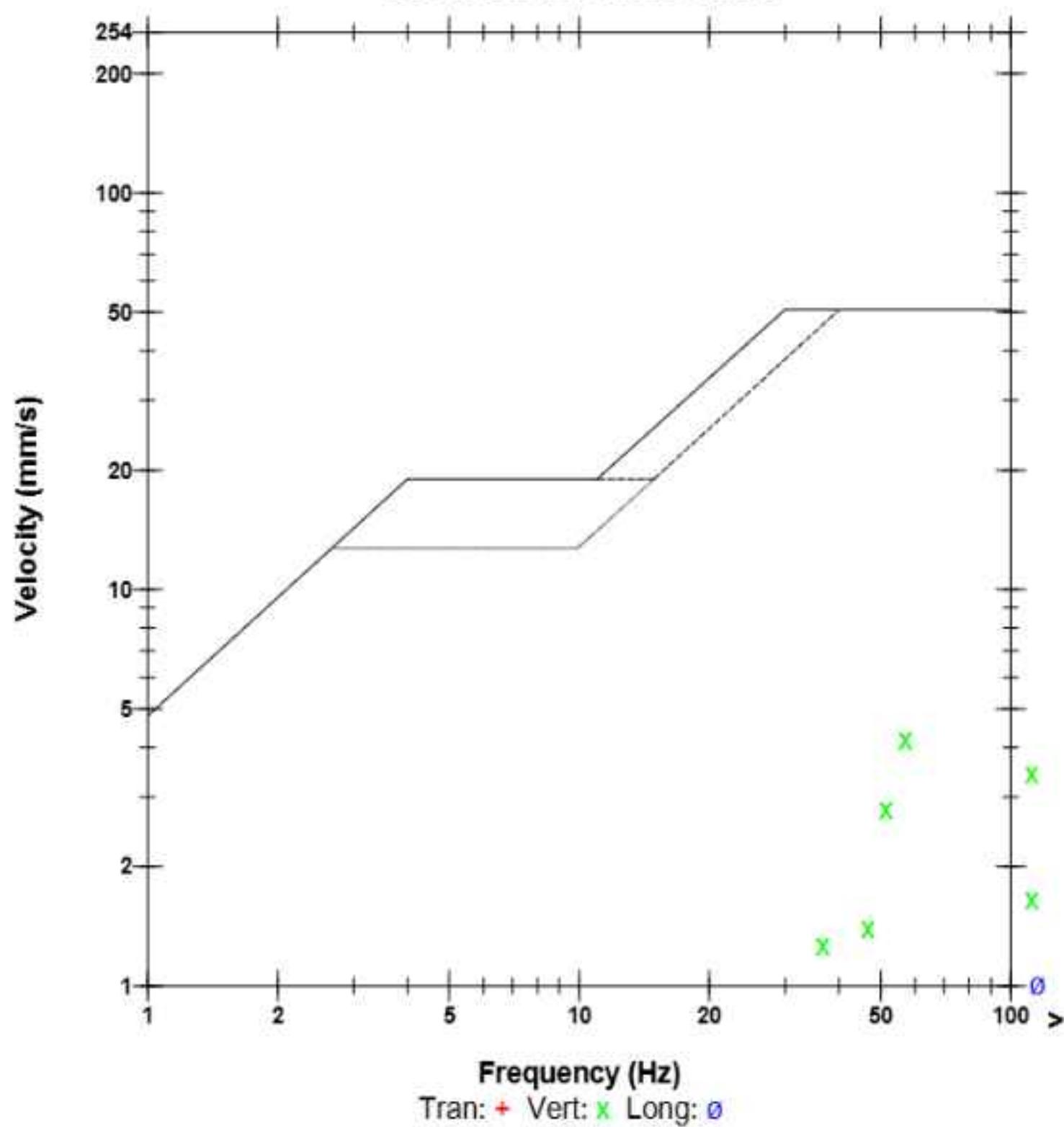
Peak Vector Sum 4.246 mm/s at 0.001 sec

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.2 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L6SE.G70

Post Event Notes

BGH/B9/ART/1ST Bench/LS,
 Nos. of Holes 21, Avg. Depth 9.56 Mtrs.,
 Avg. Ch./delay 50.0 Kgs.,
 Observation Dist. 250 Mtrs

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger = ►—————◀

Sensor Check

Date/Time Long at 13:54:51 September 16, 2025
Trigger Source Geo: 1.750 mm/s, Mic: 110.0 pa.(L)
Range Geo: 254.0 mm/s
Record Time 3.0 sec at 1024 sps

Notes
 Location: Baghia Limestone Mines
 Client:
 User Name: Prism Johnson Cement Limited
 General:

Extended Notes

Microphone Linear Weighting
PSPL 3.250 pa.(L) at 0.000 sec
ZC Freq >100 Hz
Channel Test Passed (Freq = 20.1 Hz Amp = 566 mv)

	Tran	Vert	Long	
PPV	1.016	1.397	2.286	mm/s
ZC Freq	>100	51	57	Hz
Time (Rel. to Trig)	-0.010	-0.011	0.001	sec
Peak Acceleration	0.080	0.053	0.133	g
Peak Displacement	0.001	0.004	0.007	mm
Sensor Check	Passed	Check	Passed	
Frequency	7.7	9.8	7.5	Hz
Overswing Ratio	3.3	23.0	4.0	

Peak Vector Sum 2.553 mm/s at 0.001 sec

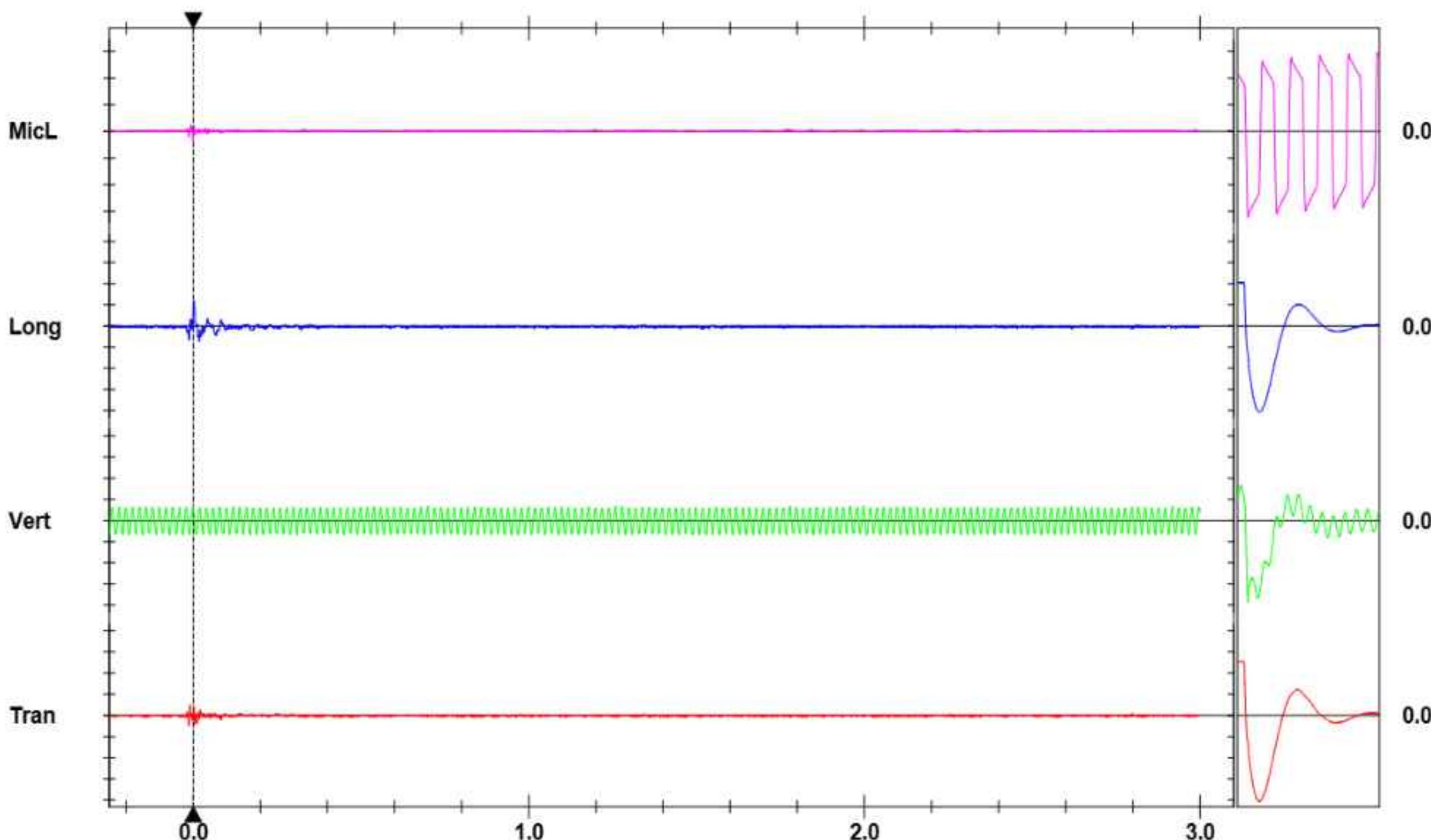
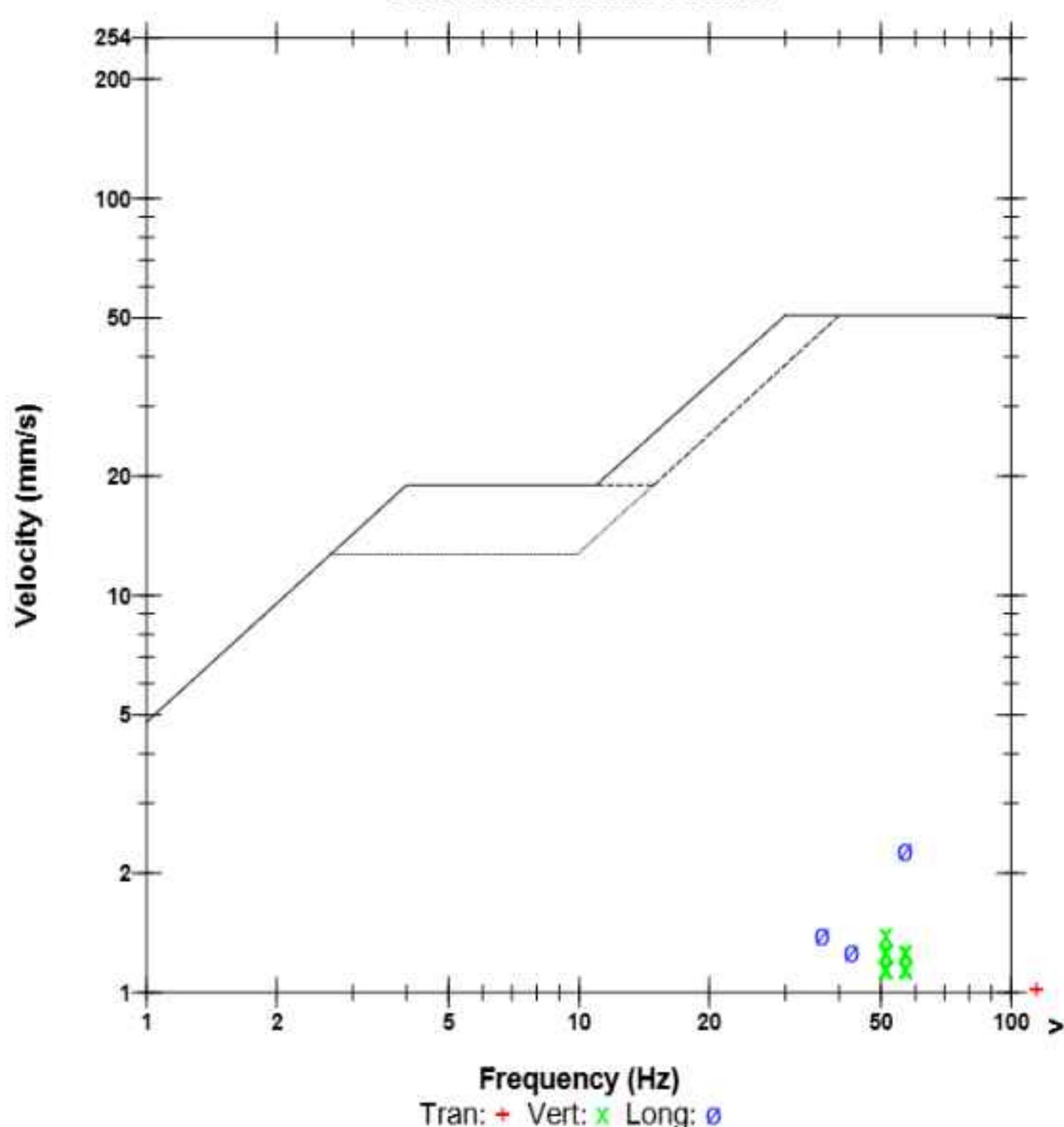
Post Event Notes

Serial Number BE18246 V 10.72-1.1 Minimate Blaster
Battery Level 6.8 Volts
Unit Calibration January 3, 2025 by UES New Delhi
File Name T246L8UE.NFO

Post Event Notes

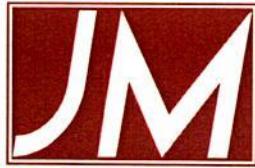
BGH/B9/ART/1ST Bench/WR,
 Nos. of Holes 30, Avg. Depth 7.71 Mtrs.,
 Avg. Ch./delay 35.83 Kgs.,
 Observation Dist. 300 Mtrs

USBM RI8507 And OSMRE



Time Scale: 0.20 sec/div Amplitude Scale: Geo: 2.000 mm/s/div Mic: 10.000 pa.(L)/div
 Trigger = ►—————◀

Sensor Check



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TEST REPORT

Sample Number:	JME/PJCL/AN/22	Report No.:	JME/AN/250630667
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi

(Assistant General Manager- Environment)
JMEPL Team

Sample collected by

Adiwasri Tola (Near Bagahai ML Area)

Sampling Location

23/06/2025 to 24/06/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

--

Latitude

--

Longitude

Sound Level Meter

Instrument used

JME/SLM/02/04

Instrument code

Calibrated

Instrument calibration status

Cloudy Sky

Meteorological condition during monitoring

Max 29°C, Min 28°C

Ambient Temperature (°C)

Human & Vehicular Activities

Surrounding activity

Regulatory Requirement

Scope of Monitoring

--

Control measure if any

JMEPL/STOP/04

Sampling Protocol

24 Hrs.

Duration of Monitoring, (minutes)

As per work order

Parameter Required

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	65.6	54.5	dB(A)
2.	Lmin	IS-9989	41.2	37.6	dB(A)
3.	Leq	IS-9989	50.0	40.9	dB(A)
4.	CPCB Limits in dB(A) Leq (Residential area)	--	55	45	dB(A)

Page No. 1 of 1

Checked by

Deepak Singh Yadav

Note:

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Reviewed & Authorized by
Sita Ram Yadav

Reg. Office & Lab.

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Phase-IV, Gurugram-122015 (Haryana)
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011(Haryana)

End of Report



TEST REPORT

Sample Number:	JME/PJCL/AN/24	Report No.:	JME/AN/250630669
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi

(Assistant General Manager- Environment)

JMELPL Team

Sample collected by

South Side of Working Pit (Bagahai Mines)

Sampling Location

25/06/2025 to 26/06/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

Latitude

Longitude

Instrument used

Sound Level Meter

Instrument code

JME/SLM/02/04

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Cloudy Sky

Ambient Temperature (°C)

Max 32°C, Min 28°C

Surrounding activity

Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Control measure if any

--

Sampling Protocol

JMELPL/STOP/04

Duration of Monitoring, (minutes)

24 Hrs.

Parameter Required

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	71.1	59.2	dB(A)
2.	Lmin	IS-9989	47.6	39.1	dB(A)
3.	Leq	IS-9989	56.5	46.6	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	--	75	70	dB(A)

Page No. 1 of 1

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Note:

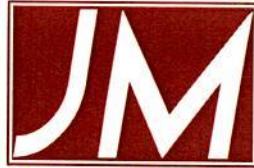
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TEST REPORT

Sample Number:	JME/PJCL/AN/25	Report No.:	JME/AN/250630670
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	Nil
		Reporting Date:	03/07/2025
		Analysis Completion Date:	03/07/2025
		Analysis Start Date:	30/06/2025
		Receipt Date:	30/06/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

Sample collected by

JMELPL Team

Sampling Location

Near Boundary Pillar No. 64 Bagahai

Date of Monitoring

26/06/2025 to 27/06/2025

Time of Monitoring

06:00 AM to 06:00 AM

Latitude

Longitude

Instrument used

Sound Level Meter

Instrument code

JME/SLM/02/05

Instrument calibration status

Calibrated

Meteorological condition during monitoring

Cloudy Sky

Ambient Temperature (°C)

Max 32°C, Min 26°C

Surrounding activity

Vehicular Activities

Scope of Monitoring

Regulatory Requirement

Control measure if any

--

Sampling Protocol

JMELPL/STOP/04

Duration of Monitoring, (minutes)

24 Hrs.

Parameter Required

As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	66.6	60.1	dB(A)
2.	L _{min}	IS-9989	43.5	38.8	dB(A)
3.	L _{eq}	IS-9989	58.8	49.9	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	--	75	70	dB(A)

Page No. 1 of 1

Checked by
Deepak Singh Yadav



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Sita Ram Yadav

Note:

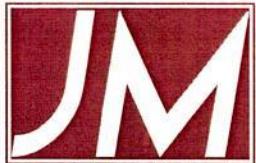
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TEST REPORT

Sample Number:	JME/PJCL/AN/22	Report No.:	JME/AN/250915667
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)
Sample collected by	JMELPL Team
Sampling Location	Adiwasai Tola (Near Bagahai ML Area)
Date of Monitoring	10/09/2025 to 11/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/05
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Human & Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	69.0	58.7	dB(A)
2.	Lmin	IS-9989	50.3	46.3	dB(A)
3.	Leq	IS-9989	59.3	50.0	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)

Page No. 1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Rajkumar Yadav

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TC-6821

TEST REPORT

Sample Number:	JME/PJCL/AN/23	Report No.:	JME/AN/250915668
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	Nil
		Reporting Date:	18/09/2025
		Receipt Date:	15/09/2025

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment)
Sample collected by	JMELPL Team
Sampling Location	At Baisan Tola (Near Bagahai ML Area)
Date of Monitoring	10/09/2025 to 11/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Human & Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	65.8	59.3	dB(A)
2.	L _{min}	IS-9989	49.0	41.7	dB(A)
3.	L _{eq}	IS-9989	60.1	50.4	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	-	75	70	dB(A)

Page No. 1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Rajkumar Yadav

Note:

- This test report pertains solely to the tested sample as received.
- This report shall not be reproduced without in full.
- Any discrepancies in this test report must be brought to our attention within 7 days from the date of issue.
- The sample will be destroyed after the specified retention period unless prior instructions are received.
- All disputes are subject to the exclusive jurisdiction of Gurugram only.

Reg. Office & Lab.

424, Ground Floor, Udyog Vihar,
Phase-IV, Gurugram-122015 (Haryana)
E-mail: jmenvirolab@hotmail.com | www.jmenvironet.org

Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011 (Haryana)



TEST REPORT

Sample Number:	JME/PJCL/AN/24	Report No.:	JME/AN/250915669
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	18/09/2025

General Information

Client Representative (Name & Designation)

Mr. Sumitabh Dwivedi
(Assistant General Manager- Environment)

JMELPL Team

Sample collected by

South Side of Working Pit (Bagahai Mines)

Sampling Location

12/09/2025 to 13/09/2025

Date of Monitoring

06:00 AM to 06:00 AM

Time of Monitoring

-

Latitude

-

Longitude

Sound Level Meter

Instrument used

JME/SLM/02/05

Instrument code

Calibrated

Instrument calibration status

Clear Sky

Meteorological condition during monitoring

Max 33°C, Min 27°C

Ambient Temperature (°C)

Vehicular Activities

Surrounding activity

Regulatory Requirement

Scope of Monitoring

-

Control measure if any

JMELPL/STOP/04

Sampling Protocol

24 Hrs.

Duration of Monitoring, (minutes)

As per work order

Parameter Required

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	L _{max}	IS-9989	70.6	58.6	dB(A)
2.	L _{min}	IS-9989	48.2	38.5	dB(A)
3.	L _{eq}	IS-9989	55.4	45.0	dB(A)
4.	CPCB Limits in dB(A) L _{eq} (Industrial area)	-	75	70	dB(A)

Page No. 1 of 1

Checked by
Deepak Singh Yadav



Reviewed & Authorized by
Rajkumar Yadav

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Corporate Office

Emaar Digital Greens, Tower-B, Unit No.1517, Golf Course
Ext. Road, Sector-61, Gurugram-122011(Haryana)

TEST REPORT

Sample Number:	JME/PJCL/AN/25	Report No.:	JME/AN/250915670
Name & Address of Unit:	M/s. Prism Johnson Limited Bagahai Limestone Mines, Area 512.317 ha, Village- Bagahai, Tehsil- Raghuraj Nagar, Distt- Satna, Madhya Pradesh	Format No.:	7.8 F-04
Sample Description:	AMBIENT NOISE LEVEL MONITORING	Party Ref. No.:	NII
		Reporting Date:	18/09/2025
		Receipt Date:	15/09/2025

General Information

Client Representative (Name & Designation)	Mr. Sumitabh Dwivedi (Assistant General Manager- Environment) JMELPL Team
Sample collected by	
Sampling Location	Near Boundary Pillar No. 64 Bagahai
Date of Monitoring	12/09/2025 to 13/09/2025
Time of Monitoring	06:00 AM to 06:00 AM
Latitude	-
Longitude	-
Instrument used	Sound Level Meter
Instrument code	JME/SLM/02/04
Instrument calibration status	Calibrated
Meteorological condition during monitoring	Clear Sky
Ambient Temperature (°C)	Max 33°C, Min 27°C
Surrounding activity	Vehicular Activities
Scope of Monitoring	Regulatory Requirement
Control measure if any	-
Sampling Protocol	JMELPL/STOP/04
Duration of Monitoring, (minutes)	24 Hrs.
Parameter Required	As per work order

TEST RESULTS

S. No.	Parameters	Testing Protocol	Test Results dB (A)		Unit
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)	
1.	Lmax	IS-9989	65.0	59.4	dB(A)
2.	Lmin	IS-9989	43.2	37.9	dB(A)
3.	Leq	IS-9989	57.8	49.0	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial area)	-	75	70	dB(A)

Page No. 1 of 1

 Checked by
Deepak Singh Yadav

Note

NOTE:

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Annexure 28: Skill Development program











Annexure 29: Photographs of siltation pond, garland



Annexure 30 : Public hearing action plan

Public Hearing dated 4th Feb., 2022 at Baghai Limestone Mine of M/s. Prism Johnson Limited, Satna
Proposed Physical targets for addressing issues of during public hearing as per MoEF&CC, OM dated 30.09.2020 & 20.10.2020

S. No.	Activities	Budget (Rs. In Lakh)	Year wise Budget (Rs. In Lakh)			Recurring Cost (Rs. In Lakh)
			Year-1 (FY 22-23)	Year-2 (FY 23-24)	Year-3 (FY 24-25)	
Infrastructure Development						
1	Boundary wall construction of Primary School in Medhi Village (250 Feet Length and 5 feet Height)	5.0	5.0	-	-	-
2	Community Sochalaya Development in Baghai Village	2.0	2.0	-	-	0.50
3	Solar Street light in Villages Baghai (10), Bairiha (10), Sijhata (7), Tapa (5), Satri (5), Medhi (3) (Total 40 Solar Street Lights)	10.0	Baghai & Bairiha 5.0	Sijhata & Tapa 3.0	Satri & Mendhi 2.0	0.50
4	Development of playground in Sijhata Village Sports Complex development at Baghai Village	15.0 30.0	Playground Development 15.0	Sports Complex Development 30.0	-	-
Education						
5	Computers and Internet Facilities, Smart boards -4 in Govt. Schools of Baghai -5, Bairiha-5, Sijhata-2, Tapa-3 (Total No. 15) Arrangement of teachers for the subjects of English, Computer, Sports & Science in Baghai School	10.0 10.0	Computers with Internet Facilities, Smart boards in Govt. Schools of Baghai, Bairiha, Sijhata, Tapa 10.0	Arrangement of teachers for the subjects of English, Computer, Sports & Science in Baghai School 10.0	-	0.60
6	Provision of Drinking water facilities in Villages Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi (One Borewell in each Village)	12.0	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	-
Skill Development						
7	Employment based training like Driving training, Motor Mechanic, Mobile Repairing, Electric Motor Binding etc. for Youth in Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi	12	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	1.00
8	Awareness and training to farmer for increase cash crops & agriculture production, modem practices, good quality seeds etc.	6.0	Baghai & Bairiha 2.0	Sijhata & Tapa 2.0	Satri & Mendhi 2.0	2.00
Plantation in Nearby Areas						
9	Plantation along the road side in Villages i.e. - Baghai, Bairiha, Sijhata, Tapa, Satri, Medhi (1000 Species in each Village Total nos. of saplings 6000)	12.0	Baghai & Bairiha 4.0	Sijhata & Tapa 4.0	Satri & Mendhi 4.0	2.0
Healthcare Facilities						
10	Sub - Health Center Development in Baghai Village Health care facilities for COVID at Rampur Baghelan for needful medical equipment and mass- awareness program in villages	50.0 25.0	10.0	50.0 10.0	5.0	-
11	Sanitary Napkin Awareness training and 10 Sanitary Napkin Machine to be provide in Baghai, Sijhata and Bairiha villages	3.0	3.0	-	-	1.5
	Total	202.0	64.0	117.0	21.0	8.10

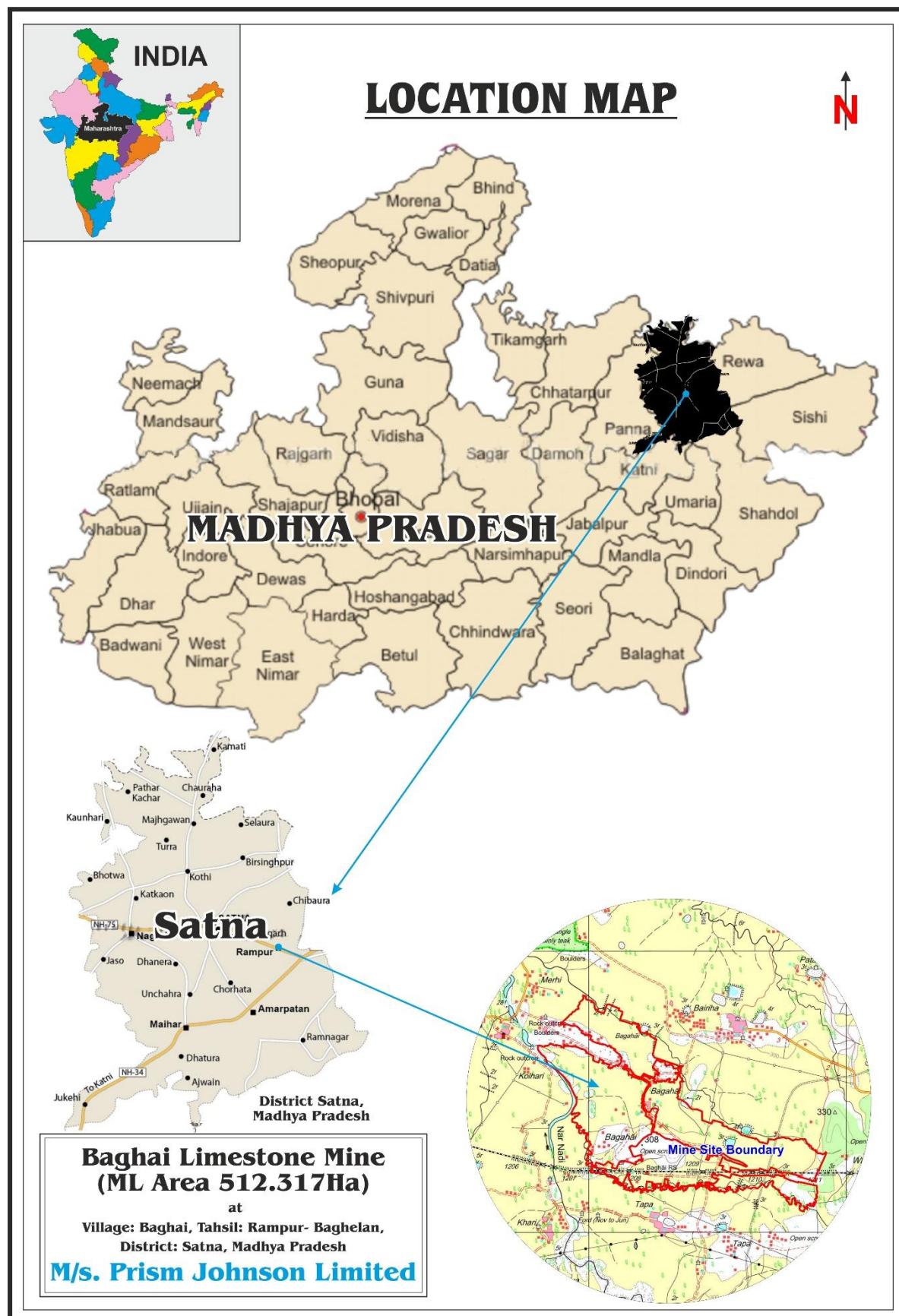


Figure 1: Location map of the Study Area

Comprehensive Hydrogeological Report

Baghai Limestone Mine (M.L. Area: 512.317 ha) at Village: Baghai, Tehsil Rampur-Baghelan, District Satna, Madhya Pradesh

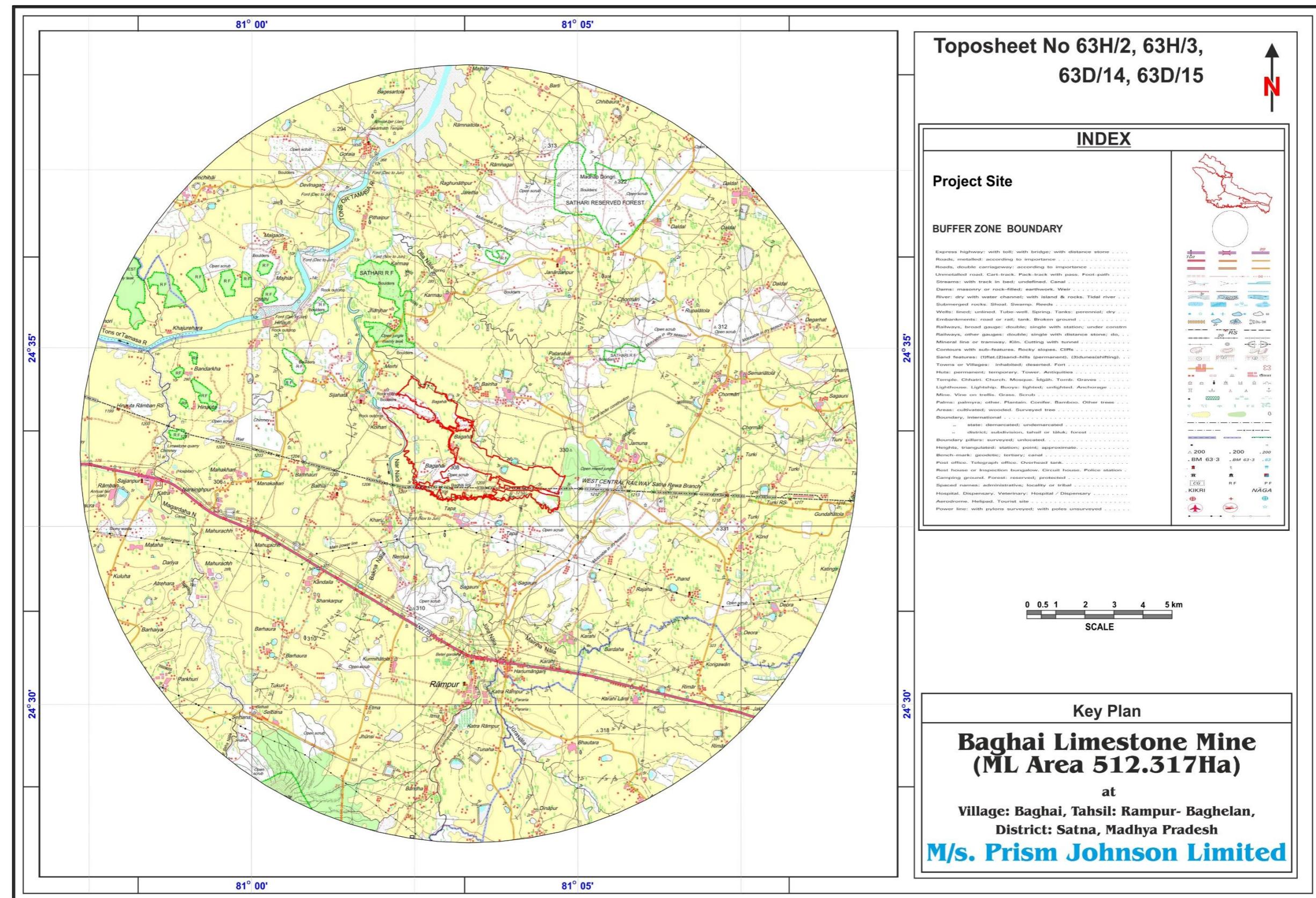


Figure 2: Environment Setting Map of the Study Area

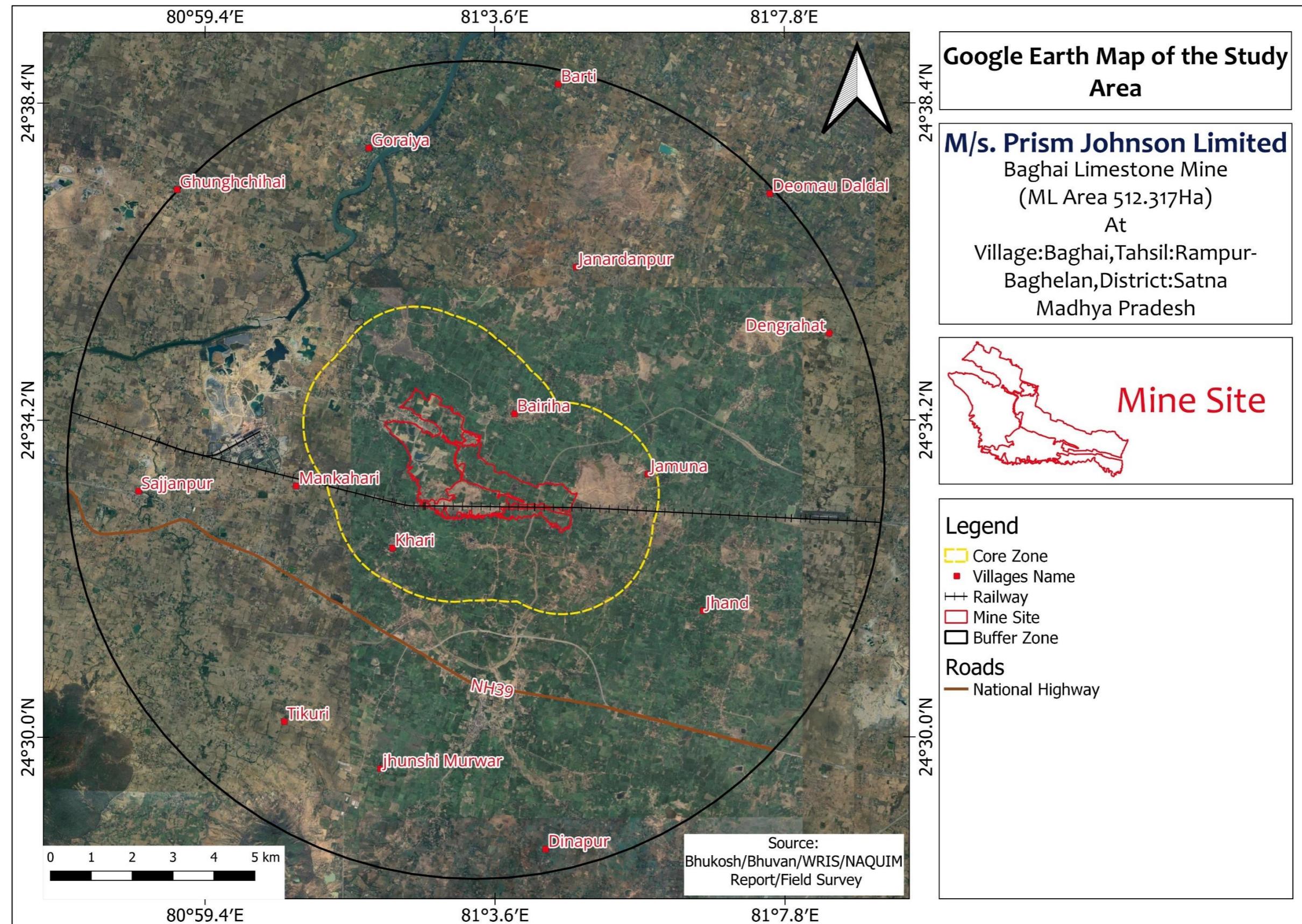


Figure 3: Google Earth Map of the Study Area

Comprehensive Hydrogeological Report

Baghai Limestone Mine (M.L. Area: 512.317 ha) at Village: Baghai, Tehsil Rampur-Baghelan, District Satna, Madhya Pradesh

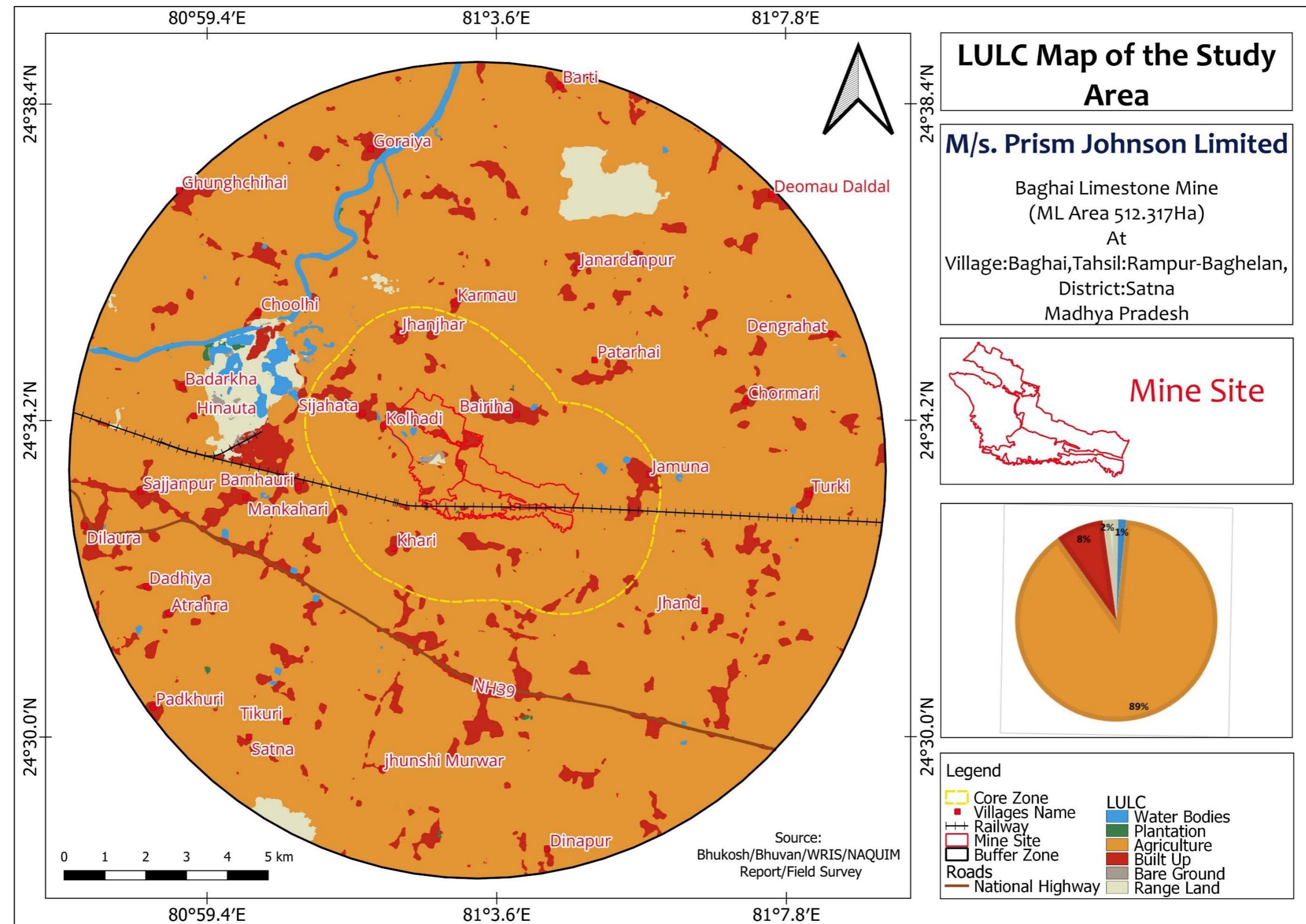
2.1. LAND USE AND LAND COVER OF THE SURROUNDING AREA

Survey of India Toposheet as a reference map on 1:50,000 scale has been used for preparation of base layer data like road, rail network, village, and project site for geo-referencing of satellite image.

Total study area/ buffer zone (31383.41Ha) of Baghai Limestone Mine mainly comprises of Crop Land (88.6 %) followed by Build Up (7.6 %) and respectively other classes of buffer area include Bare Land (2.4%), Water Bodies (1.3%) Plantation (0.1%) and Range Land (0.1%). Detailed break up of Land Use & Land Cover classes is Table 2 and Land Use Land Cover Map is given in Figure 4.

Table 2: Detail Breakup of Land Use Land Cover Classes

S. No	Particulars	Area (m ²)	Area %
1	Water Bodies	3942900	1.3
2	Plantation	213100	0.1
3	Agriculture	277993800	88.6
4	Built Up	23945100	7.6
5	Range Land	333300	0.1
6	Bare Ground	7405800	2.4
Total		313834000	100



2.2 DEM AND TOPOGRAPHY

The District Satna has a diverse physiography, which characterized different Isenberg structures along with slightly undulating to plain topography. However, at several places flat topped low mounds and narrow discontinuous ridges break the monotony. As per the Digital Elevation Model (figure 5), the highest and lowest elevations of buffer zone area 497 m RL towards South-West part and 243 m RL towards Northern region respectively. The maximum and minimum elevations of the Core Zone are 337 m RL towards South-West part and 286 m RL towards North-East part respectively. The general slope of the ground is towards North-east. The Digital elevation model was prepared by data from SRTM satellite.

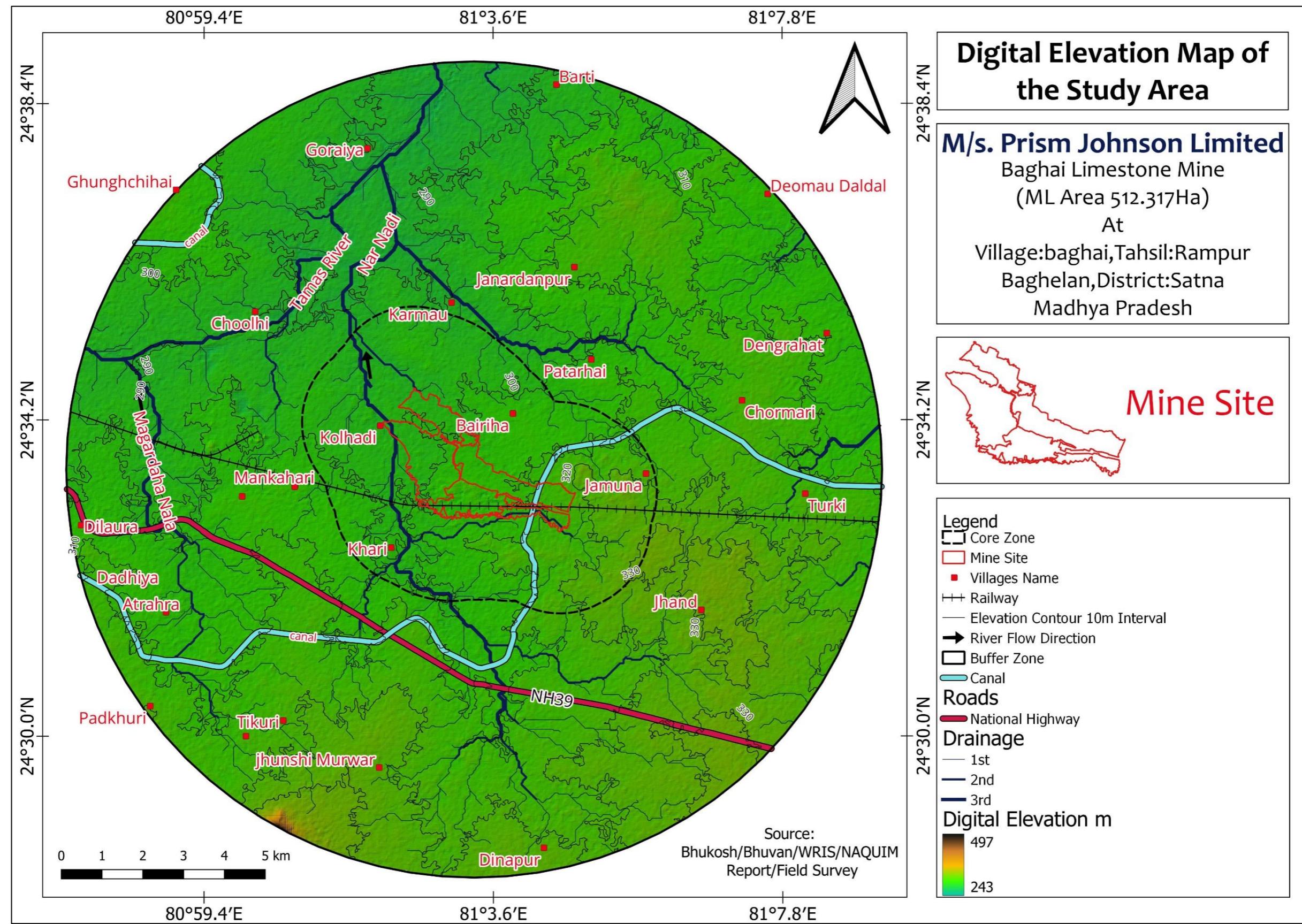


Figure 5:Digital Elevation Map of the Study Area

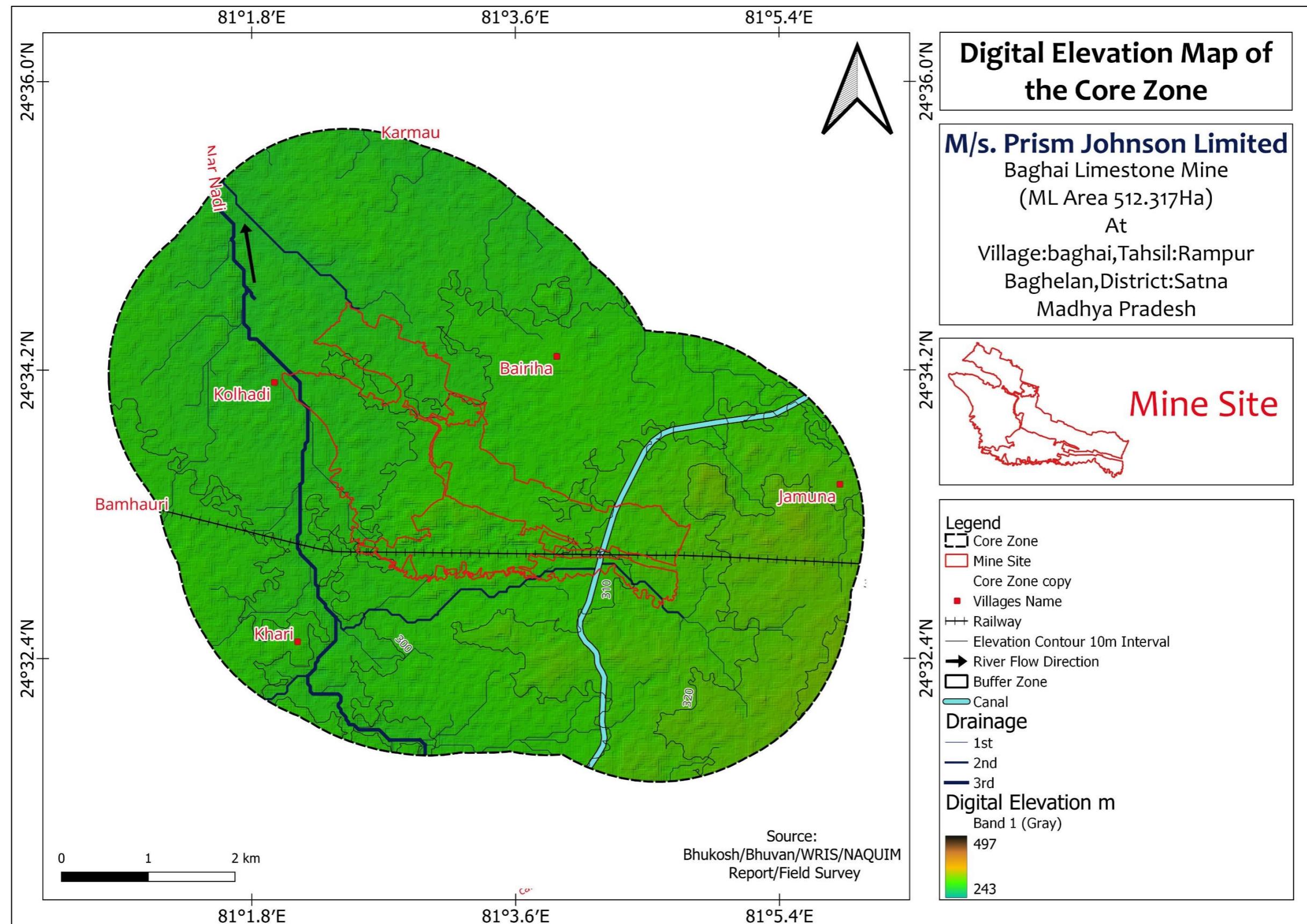


Figure 6:Digital Elevation Map of the Core Zone

2.3 GEOMORPHOLOGY AND DRAINAGE

Satna district lies on the Vindhyan plateau, which extends from the Kaimur hill range in the south to the edge of the Ganga valley in the north. It is traversed by three prominent hill ranges from south-south west to north-north east and is occupied by a higher plateau in the south-western part of the district known as “Parasmania Pahar” which is part of Bhander series. The southern and northern fringes of the district lie low in the respective valleys of the Son and the Yamuna rivers.

The active quarry in this geological setting is situated to the northwest, prism- mines, to the south, moderately dissected structure hills display a landscape shaped by erosion and natural processes. The hills exhibit a moderate level of cutting, possibly influenced by factors such as weathering and water flow. Major part of geomorphological context of the area is marked by a pediment pediplain complex, indicating a predominantly flat or gently sloping surface.

In study area, the Tamas River mainly controls the drainage pattern. The none seasonal nalla viz. Magardaha and Nar Nadi flowing on west of the lease area flow towards north and ultimately join the Tamas River. The area is almost flat with gentle slope towards East and Northeast. A substantial part of rainfall in the area drains away as surface run-off, along streamlets towards the North to the Tons River.

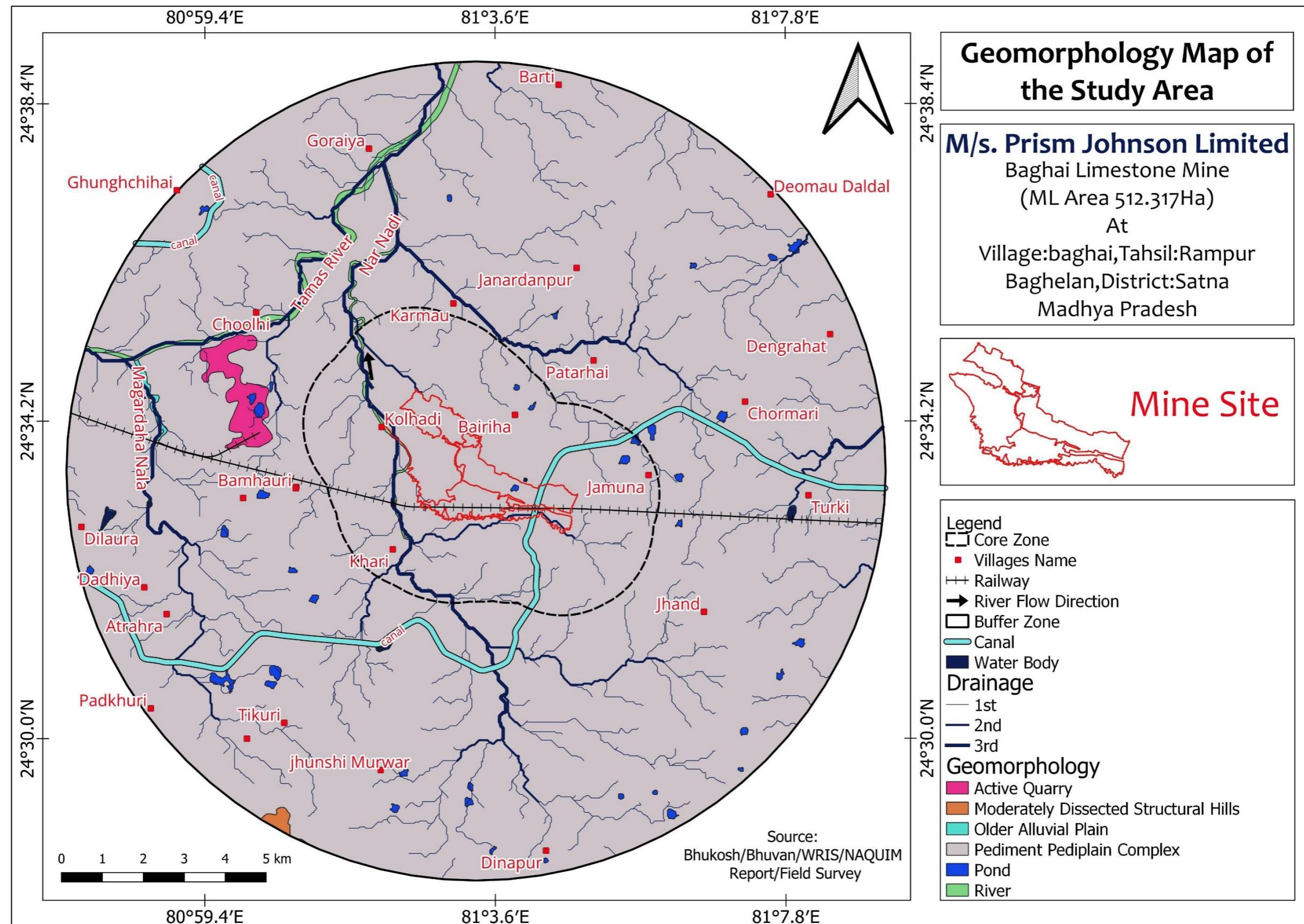
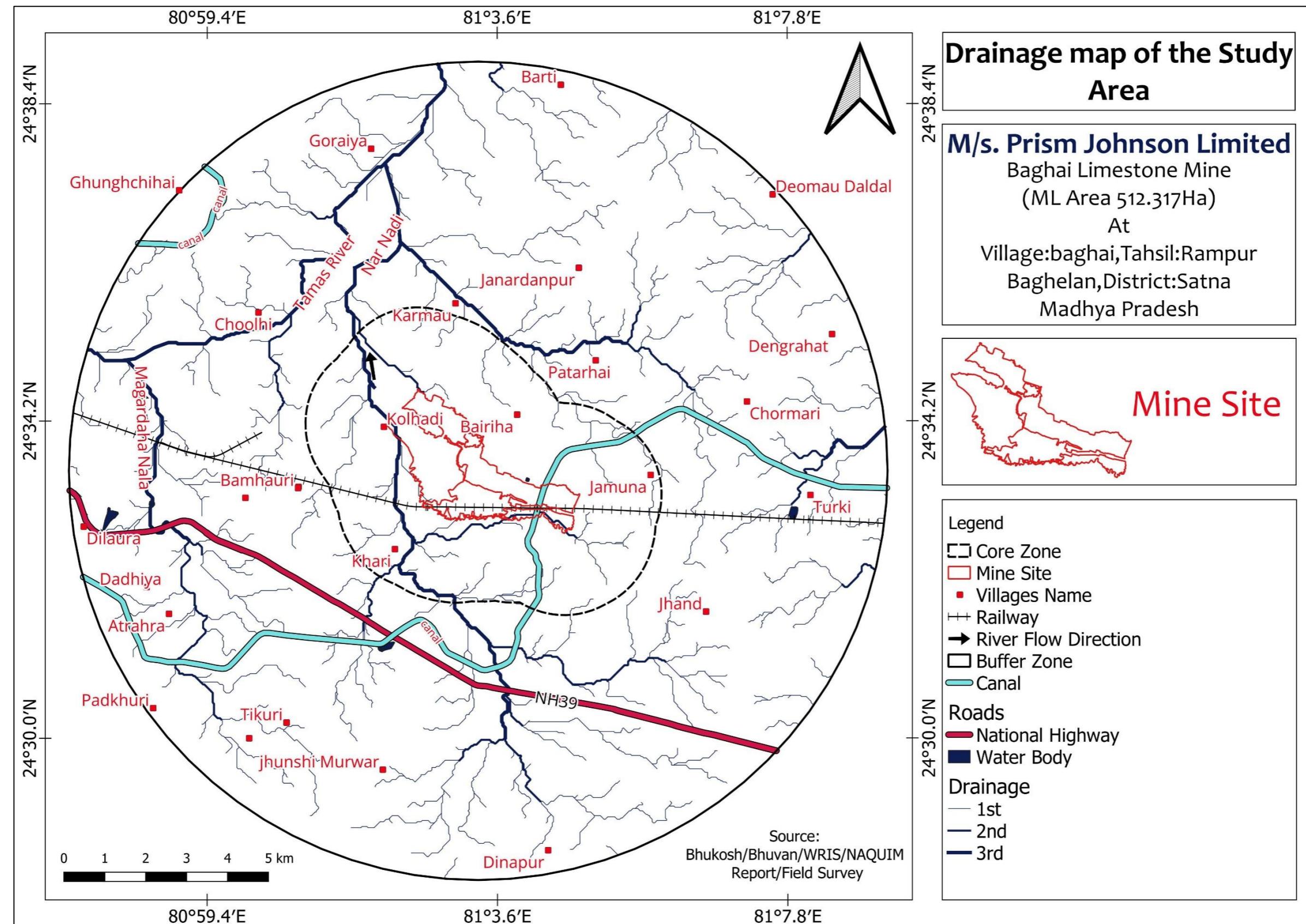


Figure 7: Geomorphology map of the Study Area



Your (Half Yearly Compliance Report) has been Submitted with following details	
Proposal No	IA/MP/MIN/403008/2022
Compliance ID	126902594
Compliance Number(For Tracking)	EC/M/COMPLIANCE/126902594/2025
Reporting Year	2025
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	01-06-2025
RO/SRO Name	Shri Ashok Kumar Sinha
RO/SRO Email	tg035@ifs.nic.in
State	MADHYA PRADESH
RO/SRO Office Address	Integrated Regional Offices, Bhopal
Note:- SMS and E-Mail has been sent to Shri Ashok Kumar Sinha, MADHYA PRADESH with Notification to Project Proponent.	

Prism Johnson Limited

ENVIRONMENT MANAGEMENT CELL

