Instantel

Event Report

Date/Time	Vert at 11:48:15 October 10, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.3 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IO57.GF0
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

Location:	Pit-A
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

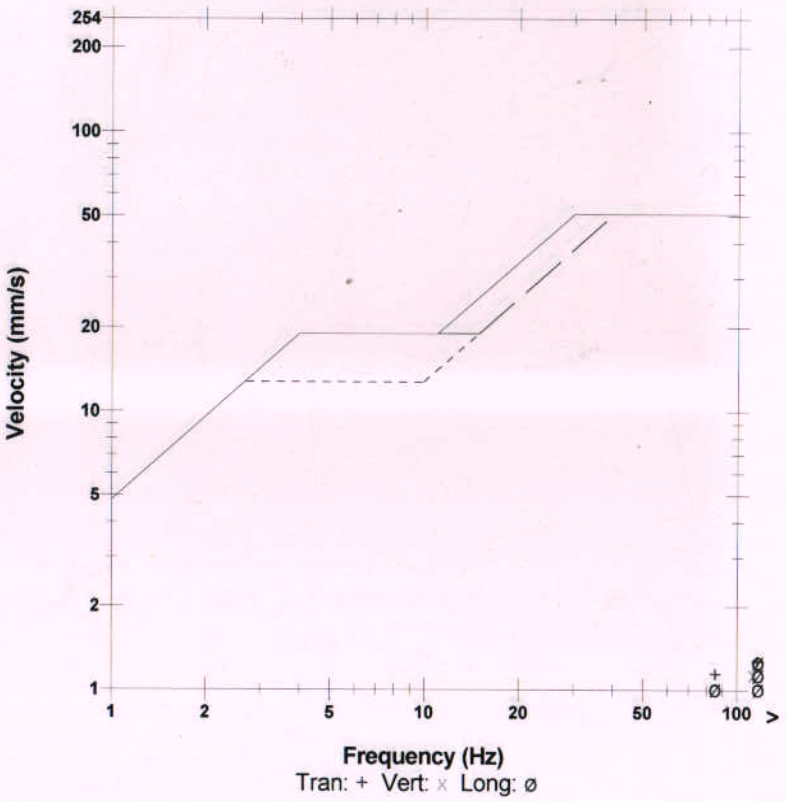
Microphone	Linear Weighting
PSPL	<0.500 pa.(L)
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 440 mv)

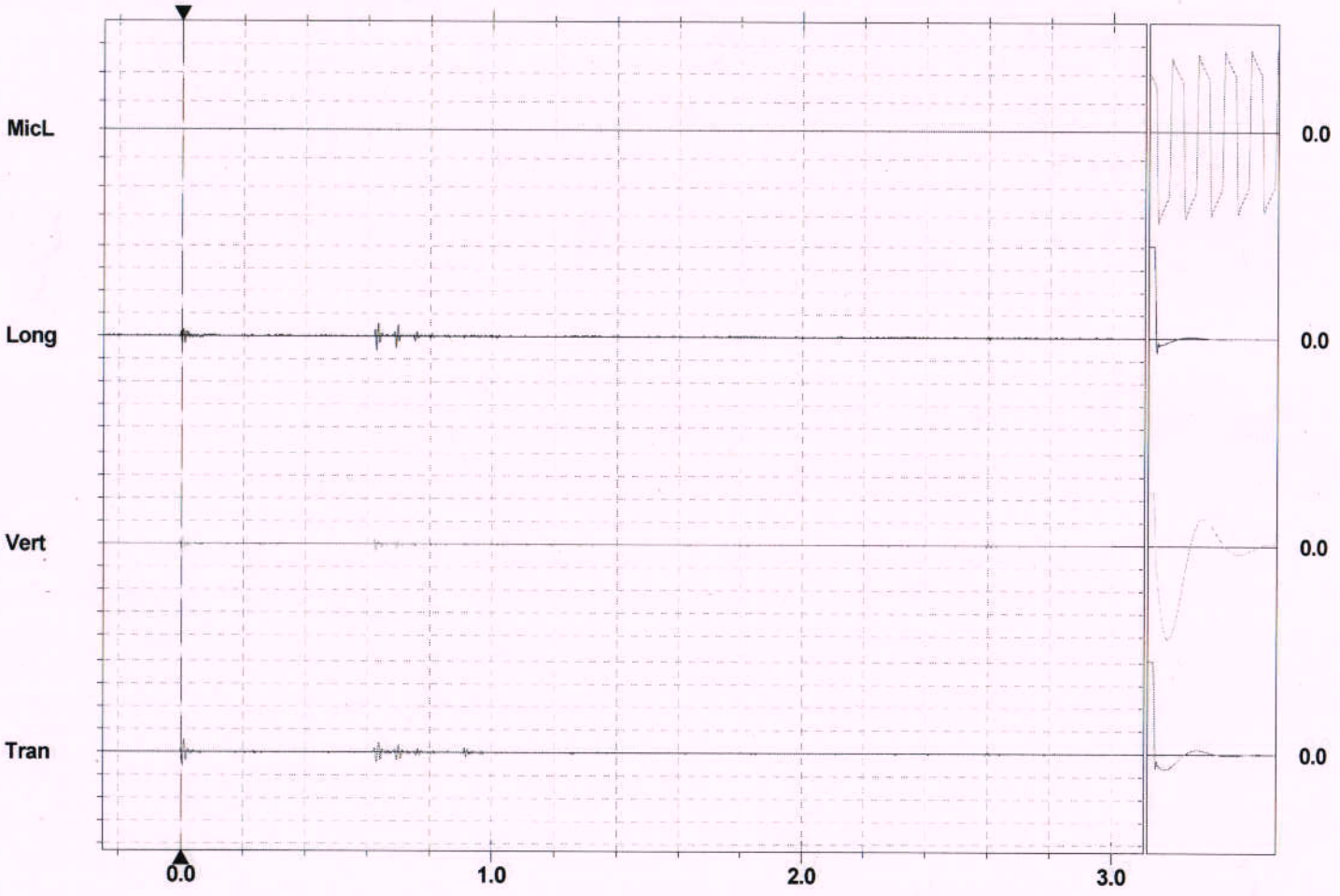
	Tran	Vert	Long	
PPV	1.270	1.143	1.270	mm/s
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.004	0.000	0.627	sec
Peak Acceleration	0.080	0.066	0.066	g
Peak Displacement	0.002	0.002	0.002	mm
Sensor Check	Check	Passed	Check	
Frequency	8.9	7.6	12.0	Hz
Overswing Ratio	3.4	3.4	9.2	

Peak Vector Sum 1.508 mm/s at 0.004 sec

N/A: Not Applicable

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

Instantel

Event Report

Date/Time	Vert at 13:27:26 October 19, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.2 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IOM0.1Q0
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

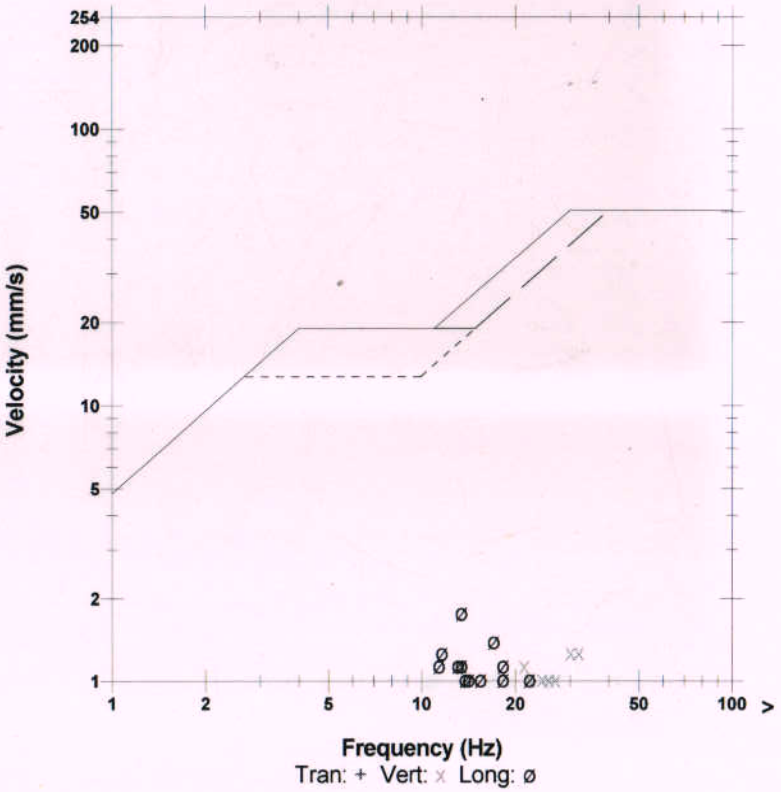
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

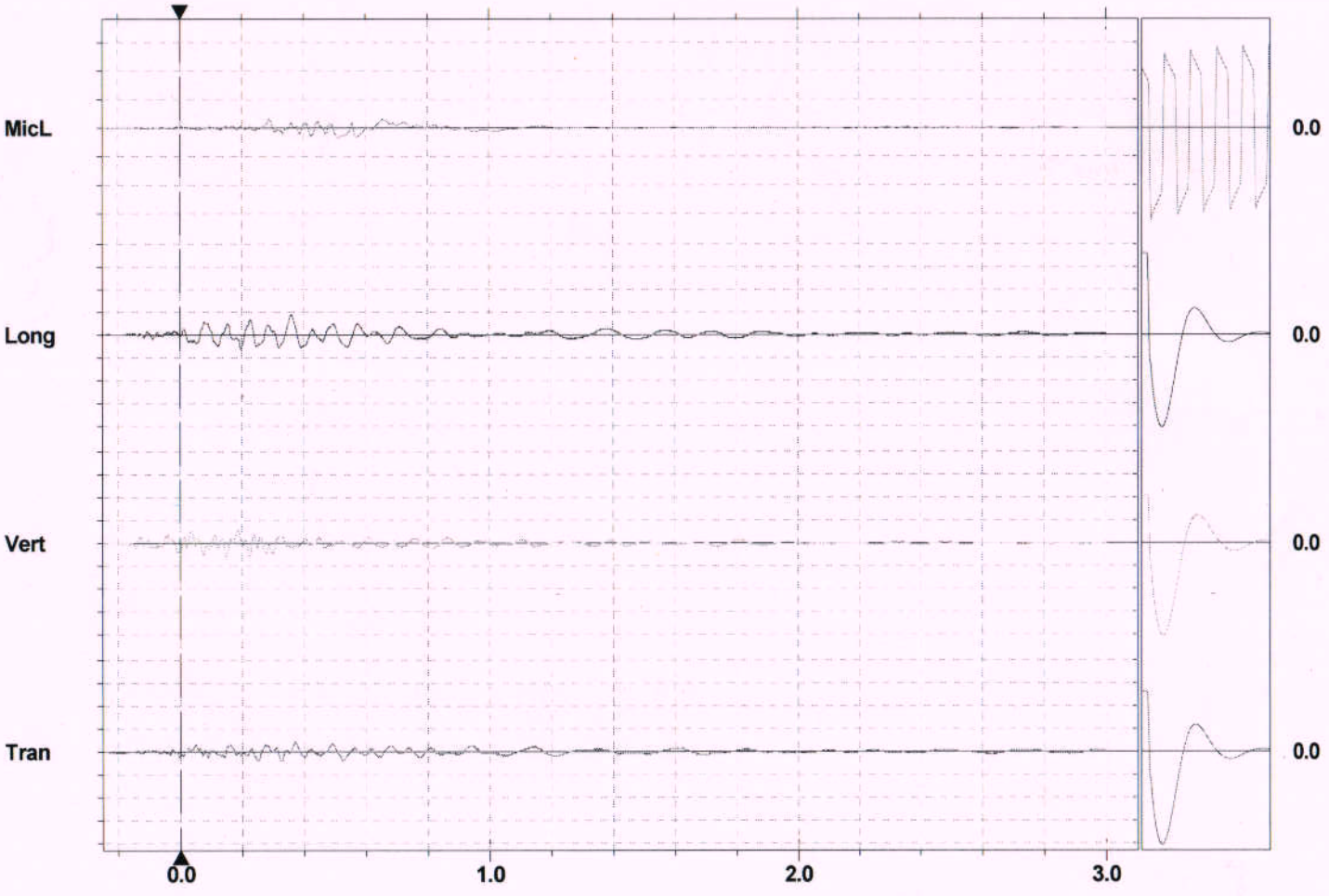
Microphone	Linear Weighting
PSPL	3.750 pa.(L) at 0.513 sec
ZC Freq	9.1 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 412 mv)

	Tran	Vert	Long	
PPV	0.889	1.270	1.778	mm/s
ZC Freq	20	30	13	Hz
Time (Rel. to Trig)	0.369	0.147	0.357	sec
Peak Acceleration	0.027	0.040	0.027	g
Peak Displacement	0.009	0.009	0.020	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.8	7.6	7.9	Hz
Overswing Ratio	3.5	3.4	3.5	

Peak Vector Sum 1.858 mm/s at 0.360 sec

USBM RI8507 And OSMRE





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

Sensor Check

Trigger = ▶—— ——◀

Instantel

Event Report

Date/Time	Vert at 11:02:50 October 17, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.3 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IOI4.0Q0
Scaled Distance	22.4 (100.0 m, 20.0 kg)

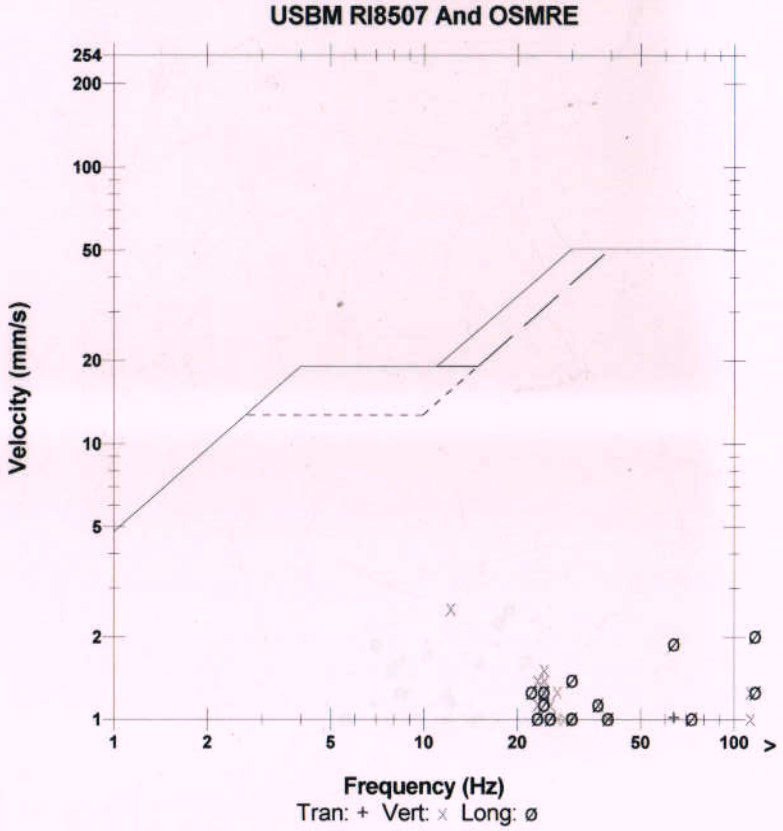
Notes

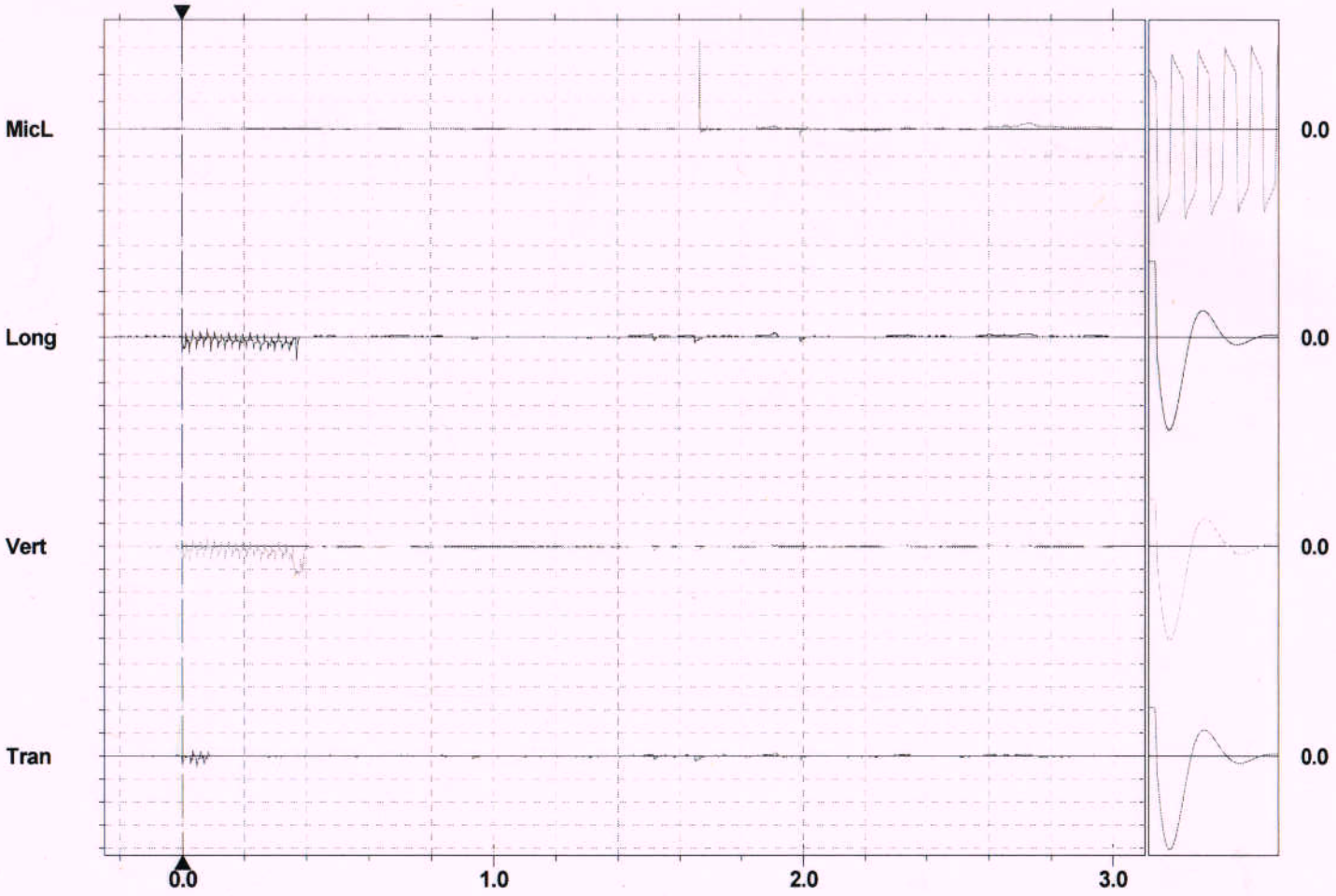
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

Microphone	Linear Weighting
PSPL	32.75 pa.(L) at 1.668 sec
ZC Freq	73 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 501 mv)

	Tran	Vert	Long	
PPV	1.016	2.540	2.032	mm/s
ZC Freq	64	12	>100	Hz
Time (Rel. to Trig)	0.046	0.364	0.368	sec
Peak Acceleration	0.093	0.146	0.212	g
Peak Displacement	0.002	0.035	0.006	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.8	Hz
Overswing Ratio	3.6	3.4	3.5	

Peak Vector Sum 2.965 mm/s at 0.368 sec





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

Trigger = ▶—— ——◀

Instantel

Event Report

Date/Time	Long at 13:06:45 November 23, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.0 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IQES.F90
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

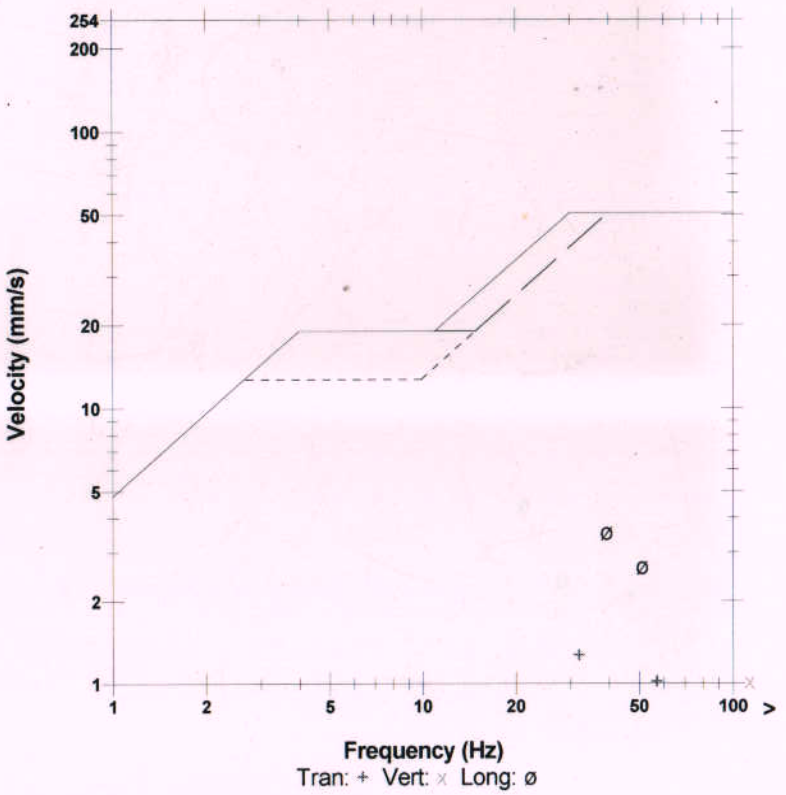
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

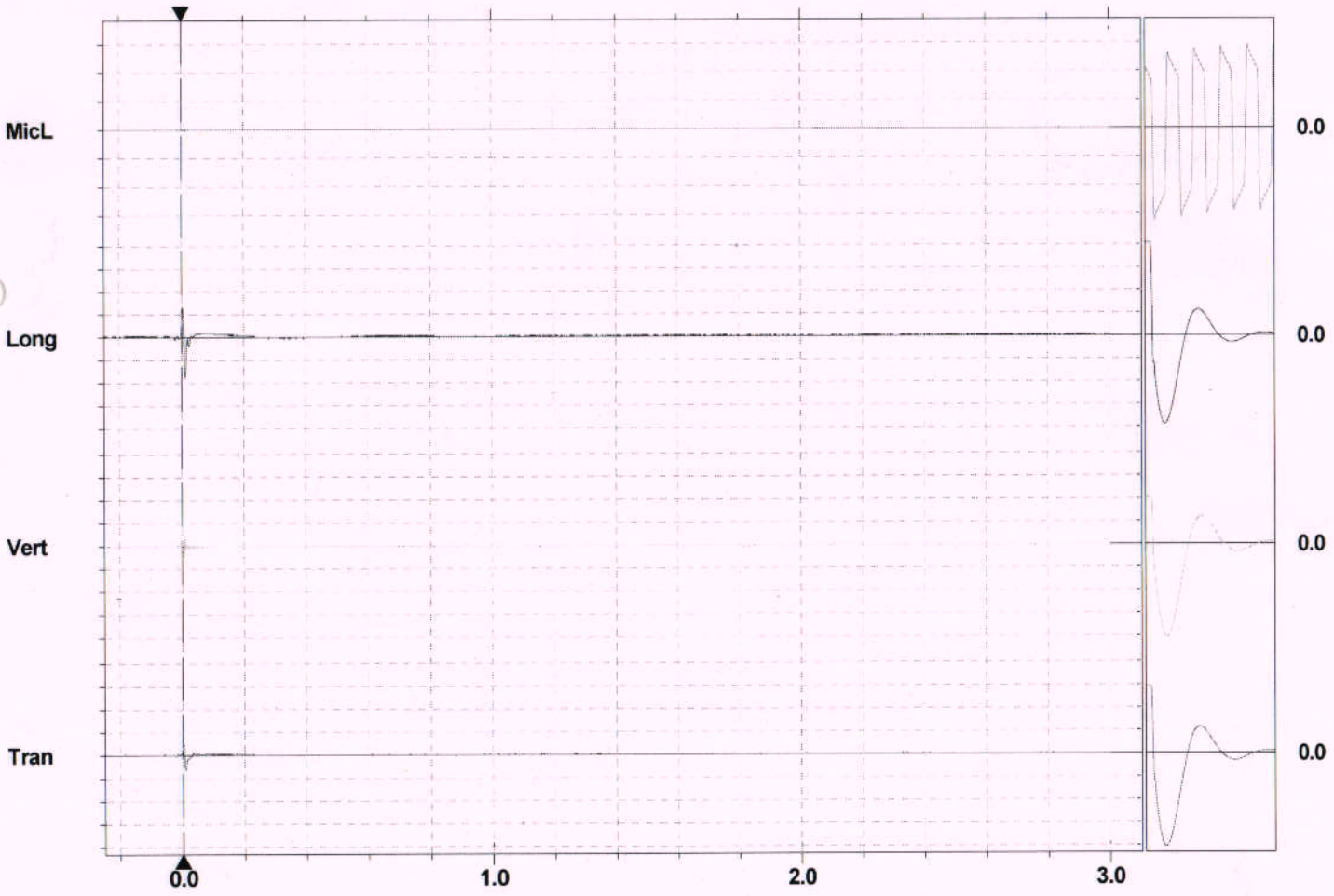
Microphone	Linear Weighting
PSPL	<0.500 pa.(L)
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 448 mv)

	Tran	Vert	Long	
PPV	1.270	1.016	3.556	mm/s
ZC Freq	32	>100	39	Hz
Time (Rel. to Trig)	0.009	0.004	0.012	sec
Peak Acceleration	0.066	0.080	0.119	g
Peak Displacement	0.005	0.001	0.016	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.8	7.6	8.1	Hz
Overswing Ratio	3.6	3.4	3.5	

Peak Vector Sum 3.668 mm/s at 0.012 sec
N/A: Not Applicable

USBM RI8507 And OSMRE





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

Sensor Check

Trigger =

Instantel

Event Report

Date/Time	Vert at 12:52:17 November 22, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.2 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IQCX.350
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

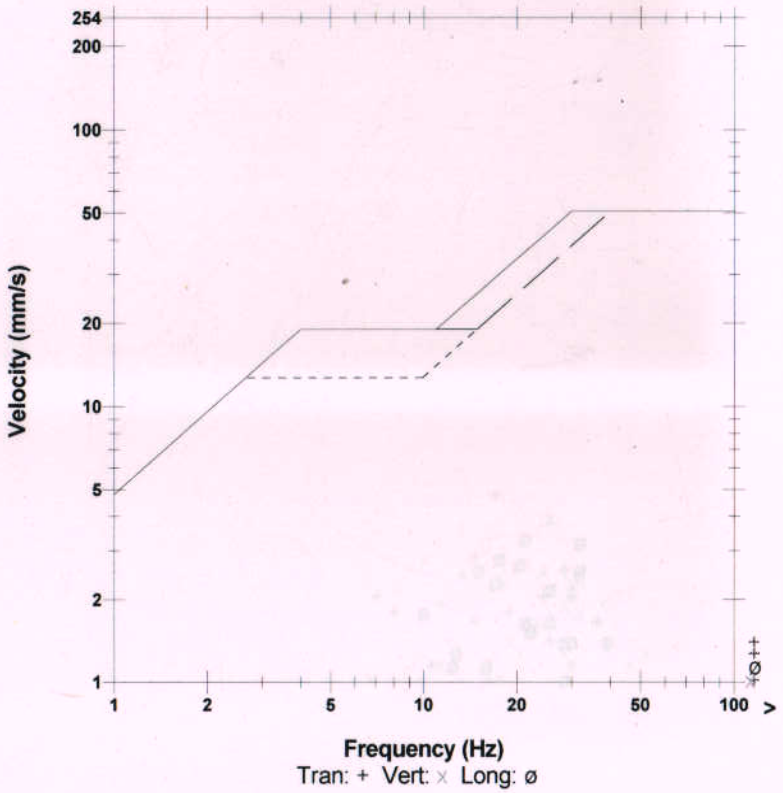
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

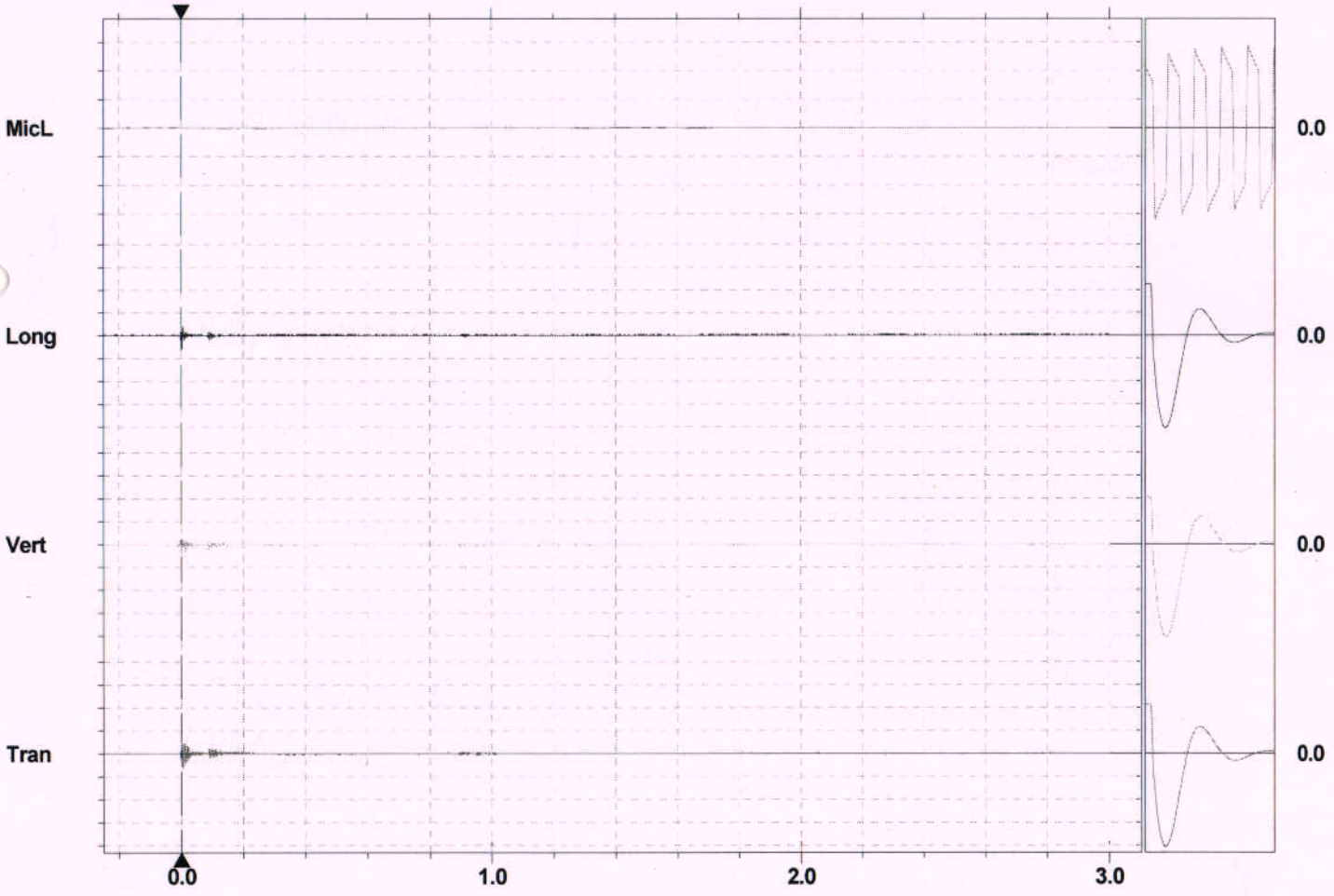
Microphone	Linear Weighting
PSPL	<0.500 pa.(L)
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 490 mv)

	Tran	Vert	Long	
PPV	1.397	1.016	1.143	mm/s
ZC Freq	>100	>100	>100	Hz
Time (Rel. to Trig)	0.001	0.000	0.003	sec
Peak Acceleration	0.159	0.093	0.119	g
Peak Displacement	0.001	0.001	0.001	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.7	7.6	7.7	Hz
Overswing Ratio	3.6	3.4	3.6	

Peak Vector Sum 1.751 mm/s at 0.003 sec
N/A: Not Applicable

USBM RI8507 And OSMRE





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

Instantel

Event Report

Date/Time	Vert at 15:21:34 November 19, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.2 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IQ7J.ZY0
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

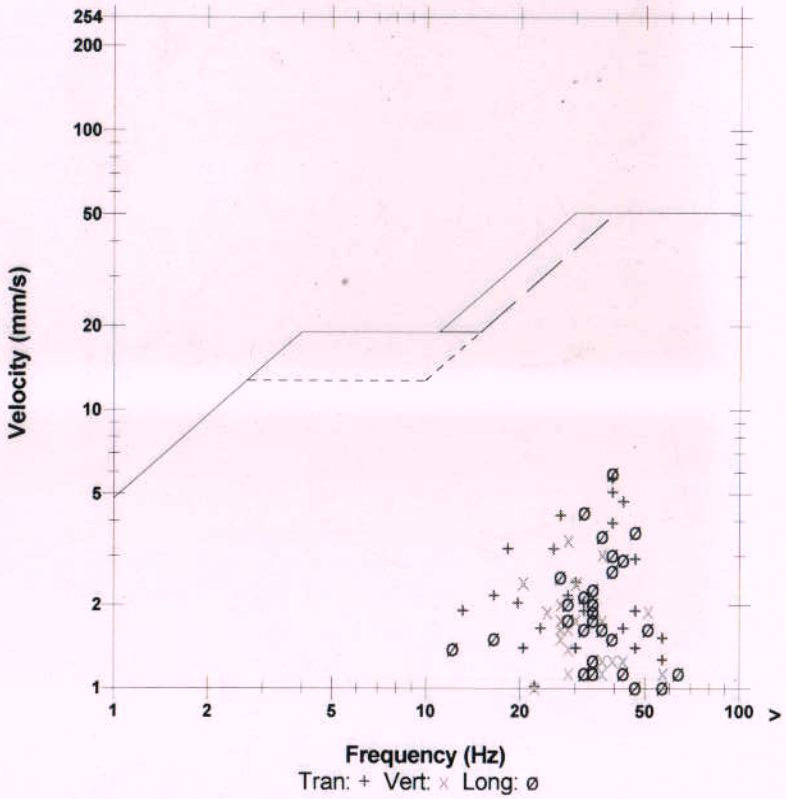
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

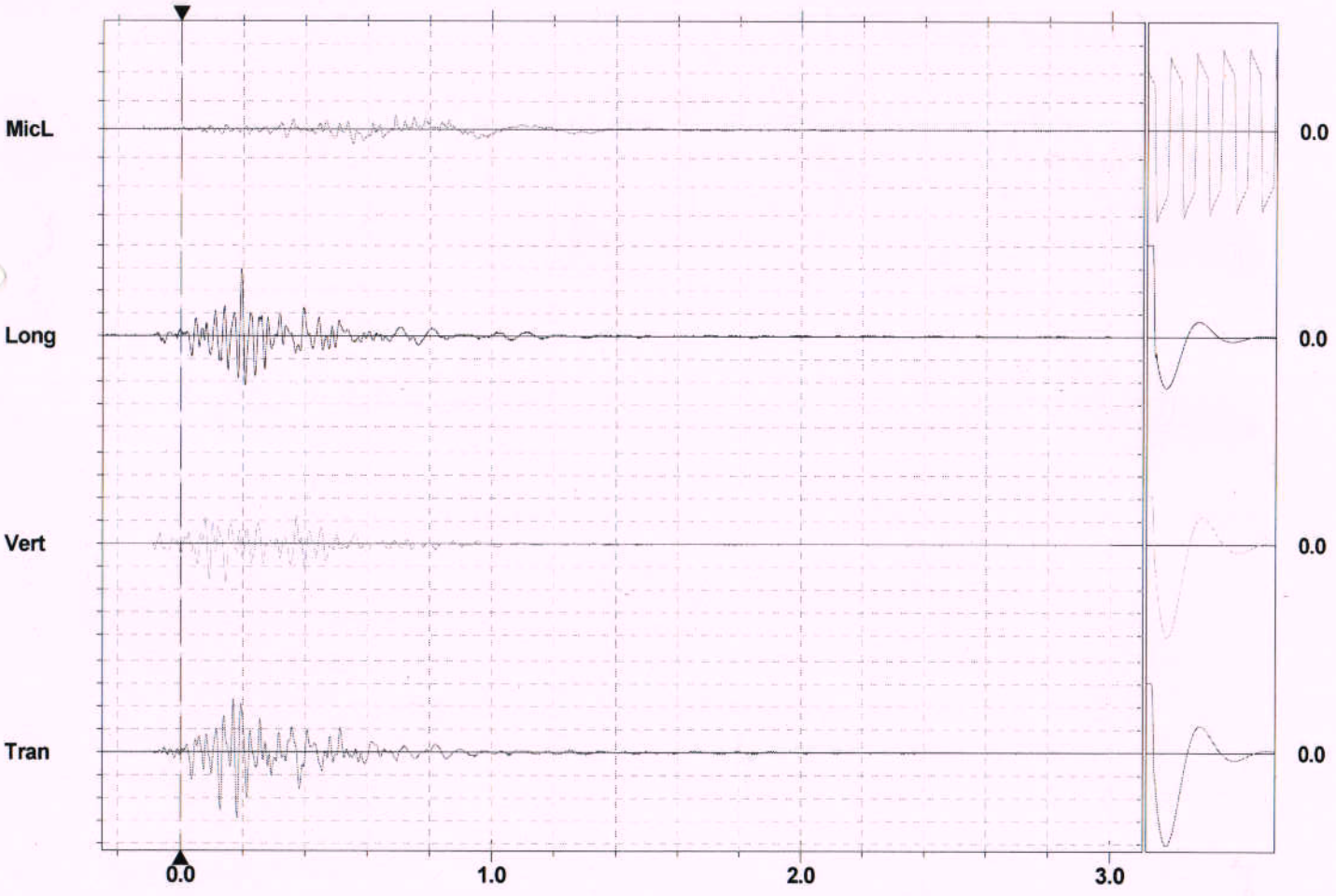
Microphone	Linear Weighting
PSPL	5.250 pa.(L) at 0.688 sec
ZC Freq	32 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 526 mv)

	Tran	Vert	Long	
PPV	5.715	3.429	5.969	mm/s
ZC Freq	39	28	39	Hz
Time (Rel. to Trig)	0.181	0.145	0.194	sec
Peak Acceleration	0.146	0.093	0.146	g
Peak Displacement	0.025	0.017	0.024	mm
Sensor Check	Passed	Passed	Check	
Frequency	7.8	7.5	8.2	Hz
Overswing Ratio	3.5	3.4	3.3	

Peak Vector Sum 7.239 mm/s at 0.194 sec

USBM RI8507 And OSMRE





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

Sensor Check

Trigger = ▶—— ——◀

Instantel

Event Report

Date/Time	Tran at 13:06:01 November 18, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.2 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IQ5J.210
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

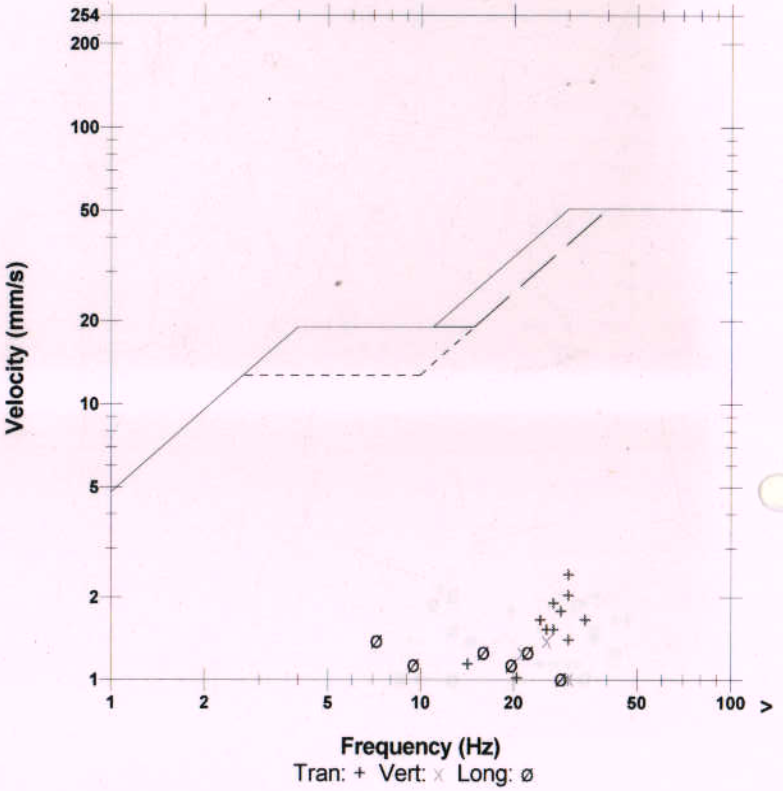
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

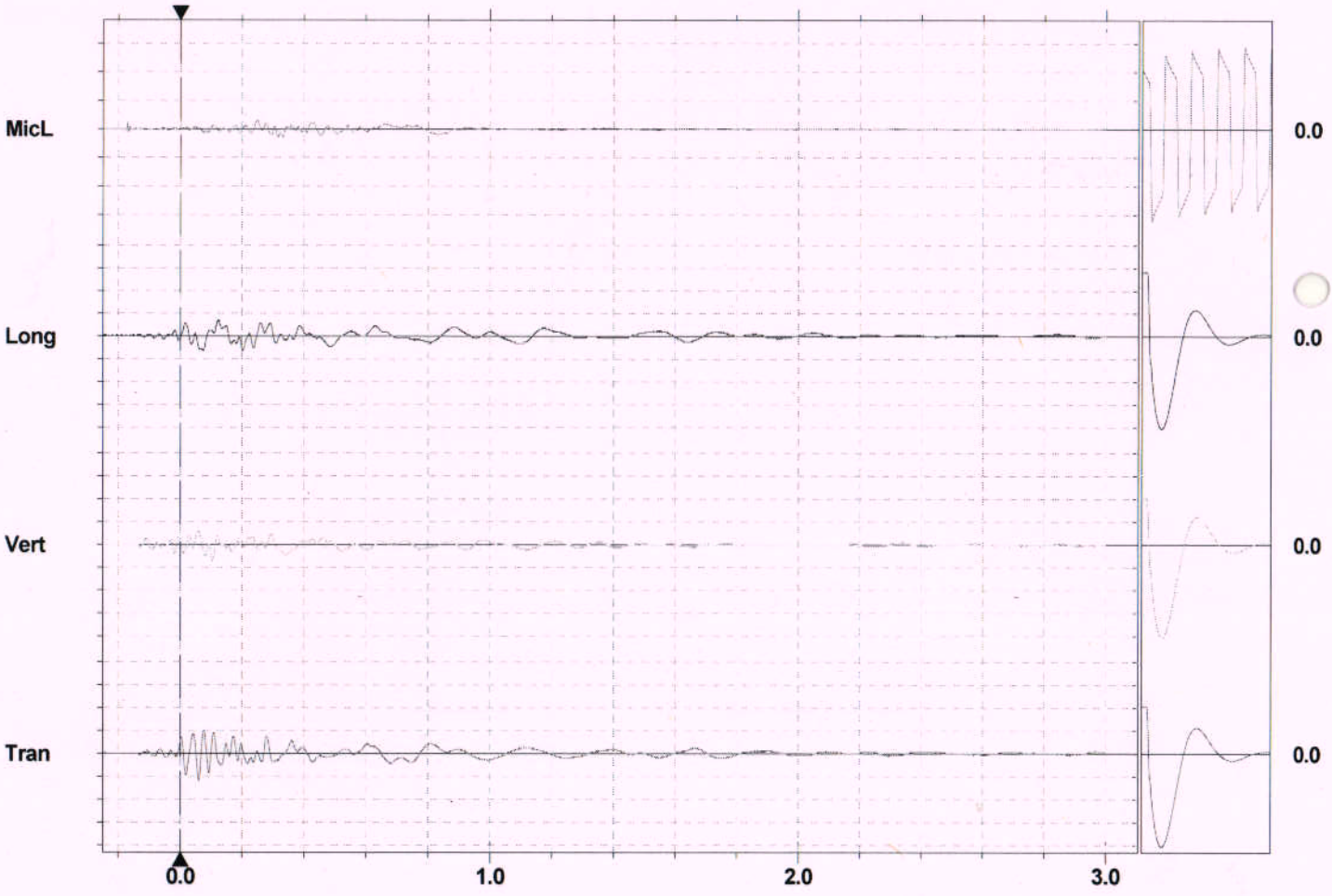
Microphone	Linear Weighting
PSPL	3.000 pa.(L) at 0.246 sec
ZC Freq	22 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 512 mv)

	Tran	Vert	Long	
PPV	2.413	1.397	1.397	mm/s
ZC Freq	30	26	7.2	Hz
Time (Rel. to Trig)	0.060	0.104	0.122	sec
Peak Acceleration	0.053	0.027	0.027	g
Peak Displacement	0.033	0.020	0.024	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.6	7.8	Hz
Overswing Ratio	3.6	3.4	3.5	

Peak Vector Sum 2.857 mm/s at 0.060 sec

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

Instantel

Event Report

Date/Time	Tran at 13:11:33 November 16, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.1 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IQ1T.Z90
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

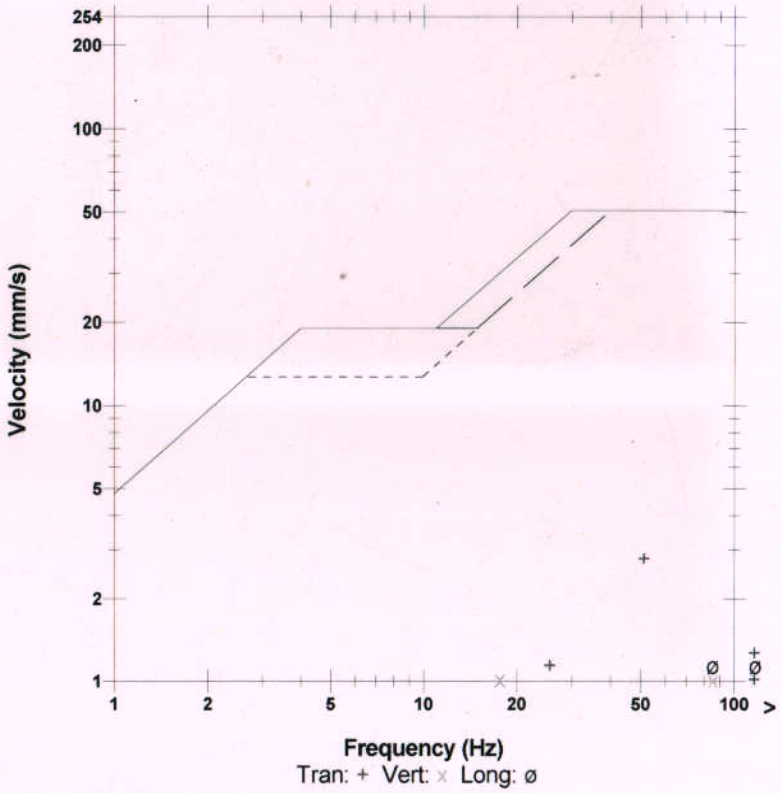
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

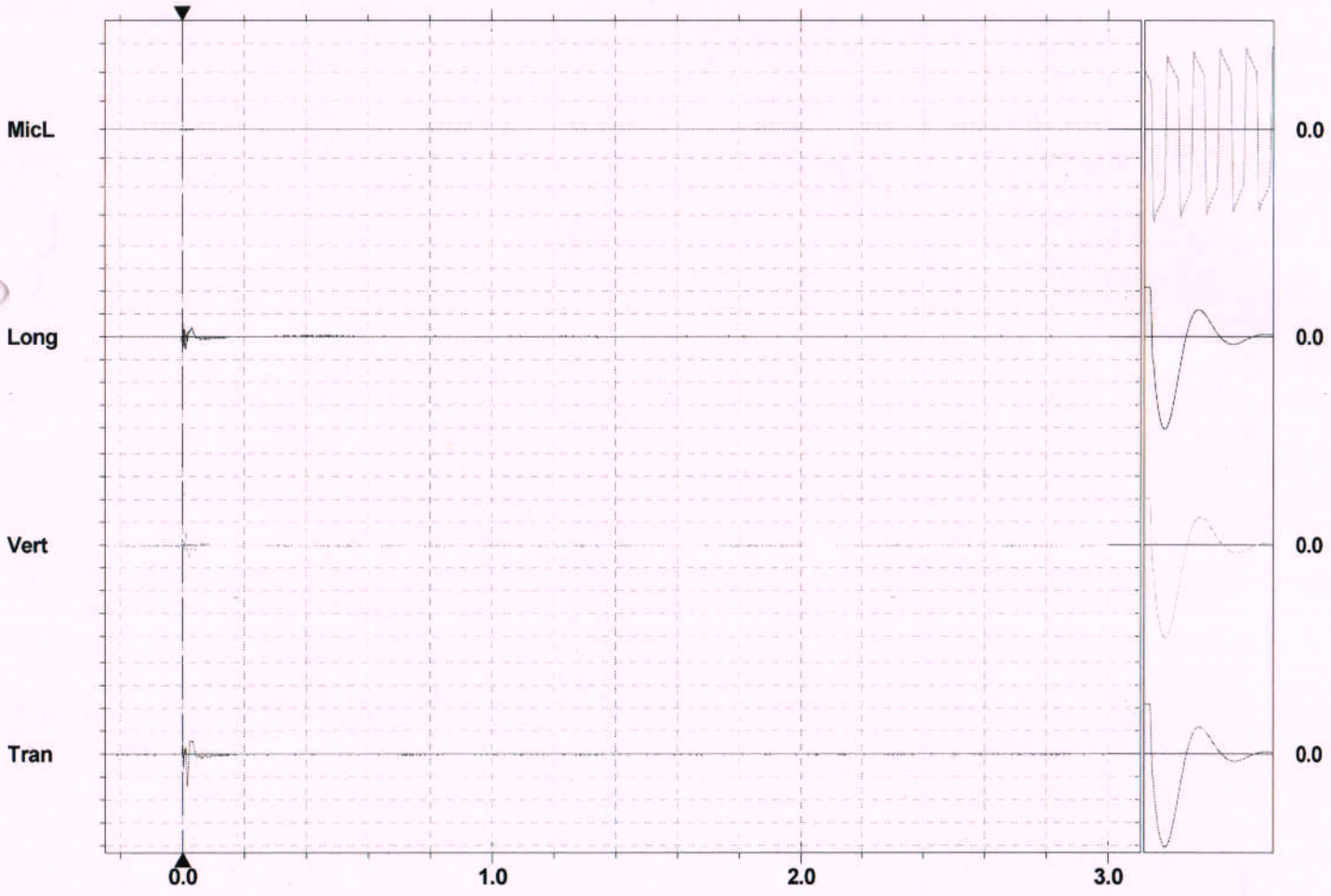
Microphone	Linear Weighting
PSPL	0.750 pa.(L) at 0.002 sec
ZC Freq	>100 Hz
Channel Test	Passed (Freq = 19.7 Hz Amp = 479 mv)

	Tran	Vert	Long	
PPV	2.794	1.016	1.143	mm/s
ZC Freq	51	85	>100	Hz
Time (Rel. to Trig)	0.015	0.011	0.002	sec
Peak Acceleration	0.119	0.066	0.119	g
Peak Displacement	0.009	0.008	0.005	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.6	7.5	7.7	Hz
Overswing Ratio	3.5	3.4	3.5	

Peak Vector Sum 2.823 mm/s at 0.015 sec

USBM RI8507 And OSMRE





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

Trigger =

Instantel

Event Report

Date/Time	Long at 12:22:32 November 2, 2020
Trigger Source	Geo: 1.000 mm/s
Range	Geo: 254.0 mm/s
Record Time	3.0 sec at 1024 sps
Job Number:	1

Serial Number	BE17407 V 10.72-1.1 Minimate Blaster
Battery Level	6.1 Volts
Unit Calibration	September 23, 2020 by CIMFR Dhanbad
File Name	S407IPBU.DK0
Scaled Distance	22.4 (100.0 m, 20.0 kg)

Notes

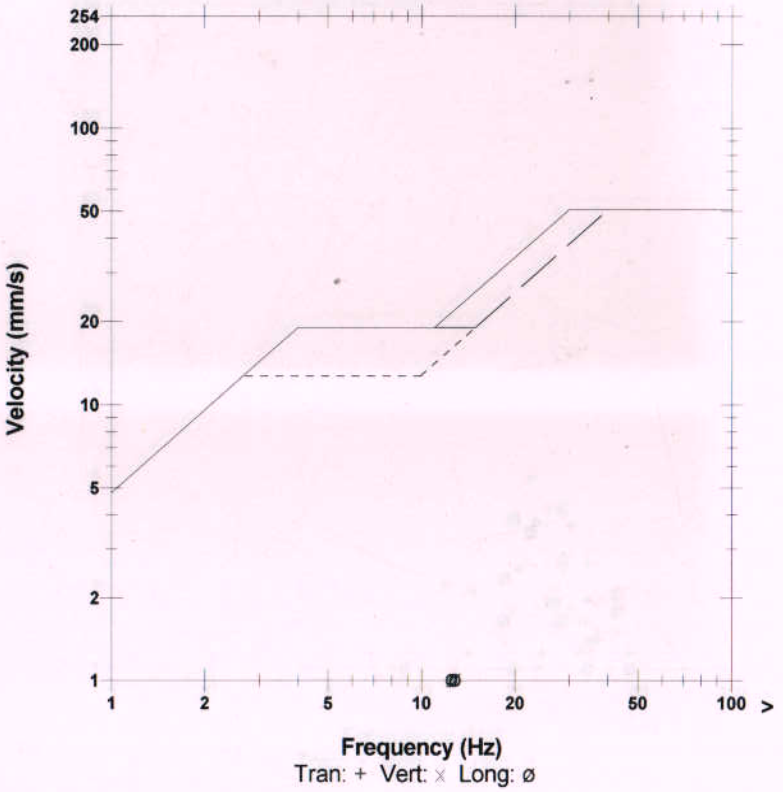
Location:	Pit-B
Client:	Kathautia Open Cast Coal Mines, HIL
User Name:	Nishikant Kumar
General:	Coal Mine

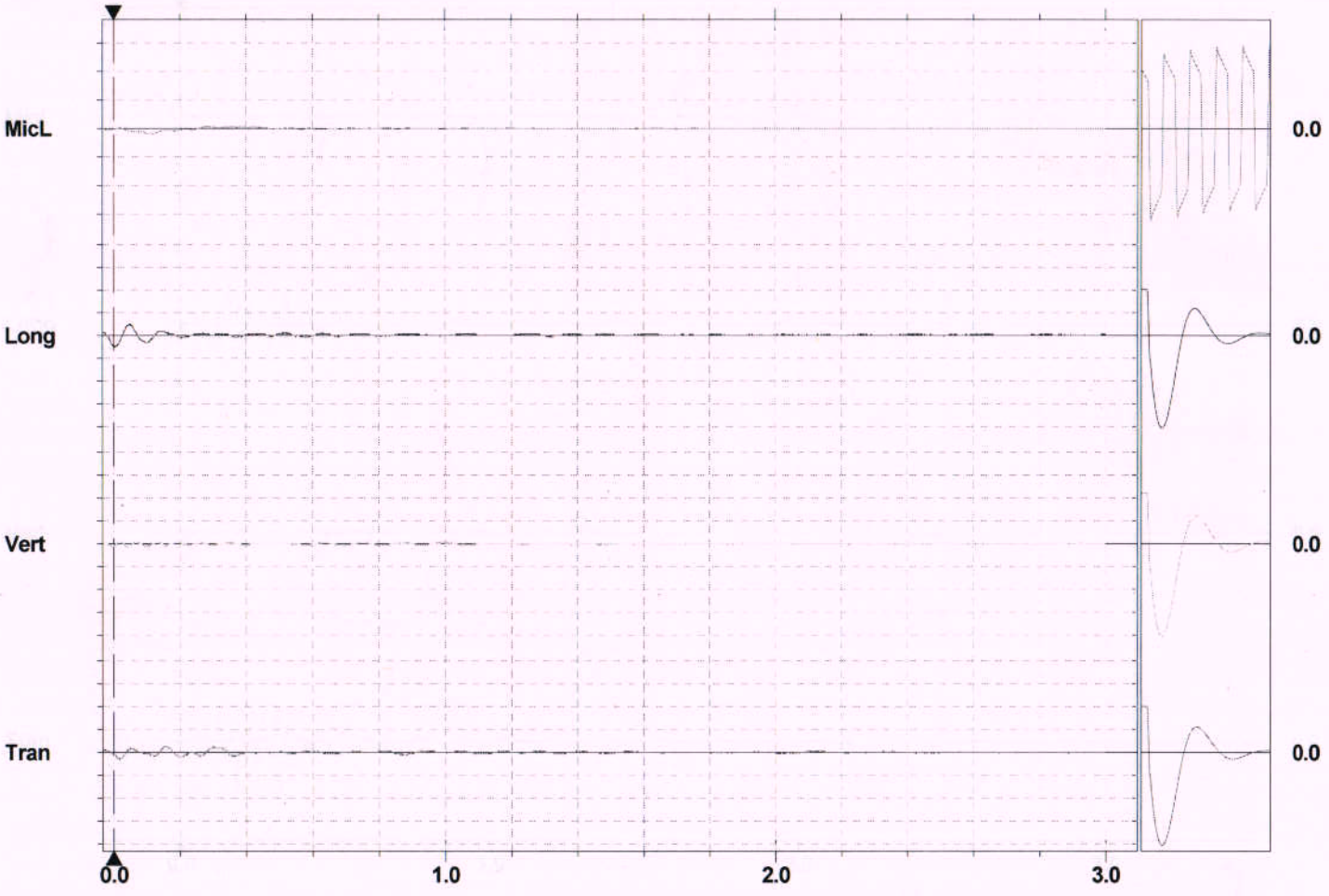
Microphone	Linear Weighting
PSPL	2.000 pa.(L) at 0.121 sec
ZC Freq	2.9 Hz
Channel Test	Passed (Freq = 20.1 Hz Amp = 456 mv)

	Tran	Vert	Long	
PPV	0.635	0.254	1.016	mm/s
ZC Freq	14	64	13	Hz
Time (Rel. to Trig)	0.017	-0.007	0.000	sec
Peak Acceleration	0.013	0.013	0.013	g
Peak Displacement	0.009	0.002	0.013	mm
Sensor Check	Passed	Passed	Passed	
Frequency	7.5	7.6	7.8	Hz
Overswing Ratio	3.7	3.4	3.4	

Peak Vector Sum 1.114 mm/s at 0.049 sec

USBM RI8507 And OSMRE





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

Trigger =