# 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

**Notes**  
**Location:** Pit-A  
**Client:** Kathautia Open Cast Coal Mines, HIL  
**UserName:** Nishikant Kumar  
**General:** Coal Mine

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

<table>
<thead>
<tr>
<th>PPV</th>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
<th>mm/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZC Freq</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>&gt;100</td>
<td>Hz</td>
</tr>
<tr>
<td>Time (Rel. to Trig)</td>
<td>0.004</td>
<td>0.000</td>
<td>0.627</td>
<td>sec</td>
</tr>
<tr>
<td>Peak Acceleration</td>
<td>0.080</td>
<td>0.066</td>
<td>0.066</td>
<td>g</td>
</tr>
<tr>
<td>Peak Displacement</td>
<td>0.002</td>
<td>0.002</td>
<td>0.002</td>
<td>mm</td>
</tr>
<tr>
<td>Sensor Check</td>
<td>Check</td>
<td>Passed</td>
<td>Check</td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>8.9</td>
<td>7.6</td>
<td>12.0</td>
<td>Hz</td>
</tr>
<tr>
<td>Overswing Ratio</td>
<td>3.4</td>
<td>3.4</td>
<td>9.2</td>
<td></td>
</tr>
</tbody>
</table>

**Peak Vector Sum:** 1.508 mm/s at 0.004 sec  
**N/A:** Not Applicable

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**USBM RI8507 And OSMRE**

**Frequency (Hz)**

- Tran: +  
- Vert: x  
- Long: o

**MicL**

**Long**

**Vert**

**Tran**

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

**Sensor Check**

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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 CEMFR Dhanbad
File Name: S4071OM0.1Q0
Scaled Distance: 22.4 (100.0 m, 20.0 kg)

Notes:
Location: Pit-B
Client: Kathautla 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 )

ppv       Tran  Vert  Long
          0.869 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 7.5 7.9 Hz
Overswing Ratio: 3.5 3.4 3.5
Peak Vector Sum: 1.858 mm/s at 0.360 sec

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**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

**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 1.666 sec

**ZC Freq:** 73 Hz

**Channel Test**

Passed (Freq = 20.1 Hz Amp = 501 mV)

<table>
<thead>
<tr>
<th>PPV</th>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.016</td>
<td>2.540</td>
<td>2.032</td>
</tr>
<tr>
<td>ZC Freq</td>
<td>64</td>
<td>12</td>
<td>&gt;100</td>
</tr>
<tr>
<td>Time (Rel. to Trig)</td>
<td>0.046</td>
<td>0.364</td>
<td>0.368</td>
</tr>
<tr>
<td>Peak Acceleration</td>
<td>0.093</td>
<td>0.146</td>
<td>0.212</td>
</tr>
<tr>
<td>Peak Displacement</td>
<td>0.002</td>
<td>0.035</td>
<td>0.006</td>
</tr>
</tbody>
</table>

**Sensor Check**

Passed  Passed  Passed

**Frequency**

Tran: 7.6 Hz  Vert: 7.5 Hz  Long: 7.8 Hz

**Overswing Ratio**

3.6  3.4  3.5

**Peak Vector Sum**

2.965 mm/s at 0.388 sec

**Serial Number:** BE17407 V10.72-1.1 Minimate Blaster

**Battery Level:** 6.3 Volts

**Unit Calibration:** September 23, 2020 by CIMFR Dhanbad

**File Name:** S40710400Q0

**Scaled Distance:** 22.4 (100.0 m, 20.0 kg)
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

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)

PPV:
- Tran: 1.270
- Vert: 1.016
- Long: 3.566

ZC Freq:
- Tran: 32
- Vert: >100
- Long: 39 Hz

Time (Rel to Trig):
- Tran: 0.009
- Vert: 0.004
- Long: 0.012 sec

Peak Acceleration:
- Tran: 0.066
- Vert: 0.080
- Long: 0.119 g

Peak Displacement:
- Tran: 0.005
- Vert: 0.001
- Long: 0.016 mm

Sensor Check:
- Frequency: Passed
- Oversensing Ratio: 3.8
- Peak Vector Sum: 3.688 mm/s at 0.012 sec

N/A: Not Applicable

Printed: November 27, 2020 (V 10.72 - 10.72)
**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:** S40710CC 350

**Scaled Distance:** 22.4 (100.0 m, 20.0 kg)

**Microphone:** Linear Weighting

**PSPL:** <0.500 pa.(L)

**ZC Freq:** >100 Hz

**Channel Test:** Passed (Freq = 19.7 Hz Amp = 490 mv)

**PPV:**
- **Tran:** 1.397 mm/s
- **Vert:** 1.016 mm/s
- **Long:** 1.143 mm/s

**ZC Freq:**
- **>100** Hz

**Time (Rel. to Trig):**
- **0.001** sec

**Peak Acceleration:** 0.159 g

**Peak Displacement:** 0.001 mm

**Sensor Check:**
- **Passed** Tran, Vert, Long

**Frequency:**
- **Tran:** 7.7 Hz
- **Vert:** 7.6 Hz
- **Long:** 7.7 Hz

**Overswing Ratio:**
- **3.6** Tran
- **3.4** Vert
- **3.6** Long

**Peak Vector Sum:** 1.751 mm/s at 0.003 sec

**N/A:** Not Applicable
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

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)

PPV
Tran 5.715 3.429 5.869 mm/s
Vert 39 26 39 Hz
Long 1.014 0.145 0.194 sec
Time (Rel. to Trig) 7.8 7.5 8.2 Hz
Peak Acceleration 0.146 0.093 0.146 g
Peak Displacement 0.0025 0.017 0.024 mm
Sensor Check: Passed
Frequency: 3.5 3.4 3.3
Overswing Ratio
Peak Vector Sum 7.239 mm/s at 0.194 sec

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Event Report

Date/Time: 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: S4071Q5J.210
Scaled Distance: 22.4 (100.0 m, 20.0 kg)

Notes
Location: Pit-B
Client: Kathautia Open Cast Coal Mines, HIL
Owner: 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)

<table>
<thead>
<tr>
<th></th>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPV</td>
<td>2.413</td>
<td>1.397</td>
<td>1.397</td>
</tr>
<tr>
<td>ZC Freq</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Time (Rel. to Trig)</td>
<td>0.060</td>
<td>0.104</td>
<td>0.122</td>
</tr>
<tr>
<td>Peak Acceleration</td>
<td>0.053</td>
<td>0.027</td>
<td>0.027</td>
</tr>
<tr>
<td>Peak Displacement</td>
<td>0.033</td>
<td>0.020</td>
<td>0.024</td>
</tr>
<tr>
<td>Sensor Check</td>
<td>Passed</td>
<td>Passed</td>
<td>Passed</td>
</tr>
<tr>
<td>Frequency</td>
<td>7.6</td>
<td>7.6</td>
<td>7.6</td>
</tr>
<tr>
<td>Overswing Ratio</td>
<td>3.6</td>
<td>3.4</td>
<td>3.5</td>
</tr>
<tr>
<td>Peak Vector Sum</td>
<td>2.857 mm/s at 0.060 sec</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Frequency (Hz)
Tran: + Vert: × Long: ø

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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

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 )

<table>
<thead>
<tr>
<th>PPV</th>
<th>Tran</th>
<th>Vert</th>
<th>Long</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.794</td>
<td>1.016</td>
<td>1.143</td>
<td>mm/s</td>
</tr>
</tbody>
</table>

| ZC Freq | 51 | 85 | >100 Hz |

| Time (Rel. to Trig) | 0.015 | 0.011 | 0.002 sec |

| Peak Acceleration | 0.119 | 0.068 | 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
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

Notes
Location: Pit-B
Client: Kathauta 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 )

PPV
Tran 0.635
Vert 0.254
Long 1.016

ZC Freq
Tran 14
Vert 64
Long 13 Hz

Time (Rel. to Trig)
Tran 0.017
Vert -0.007
Long 0.000 sec

Peak Acceleration
Tran 0.013
Vert 0.013
Long 0.013 g

Peak Displacement
Tran 0.009
Vert 0.002
Long 0.013 mm

Sensor Check: Passed Passed Passed
Frequency
Tran 7.5
Vert 7.6
Long 7.8 Hz

Overswing Ratio
Tran 3.7
Vert 3.4
Long 3.4

Peak Vector Sum 1.114 mm/s at 0.049 sec

USBM R8507 And OSMRE

Frequency (Hz)
Tran + Vert Long ø

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