

# Shaking Table Test of Wall Enclosure Without Roof

BRI

MIE University

NIED

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# Test Dates :December 22-27, 2007

- Construction : From December 1 to 21,
- Test Site: NIED Shaking Table at Tsukuba
- One Horizontal :  
 Stroke 0.46m,  
 Max Speed 1m/s  
 Max Accel. 2G



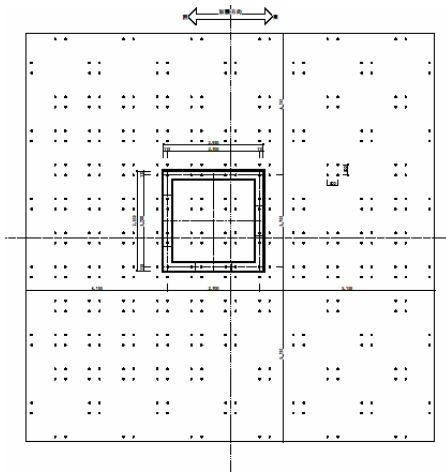
# Test Purposes:

To take a basic and Preparatory data for next year Shaking Table Tests in Peshawar, Pakistan

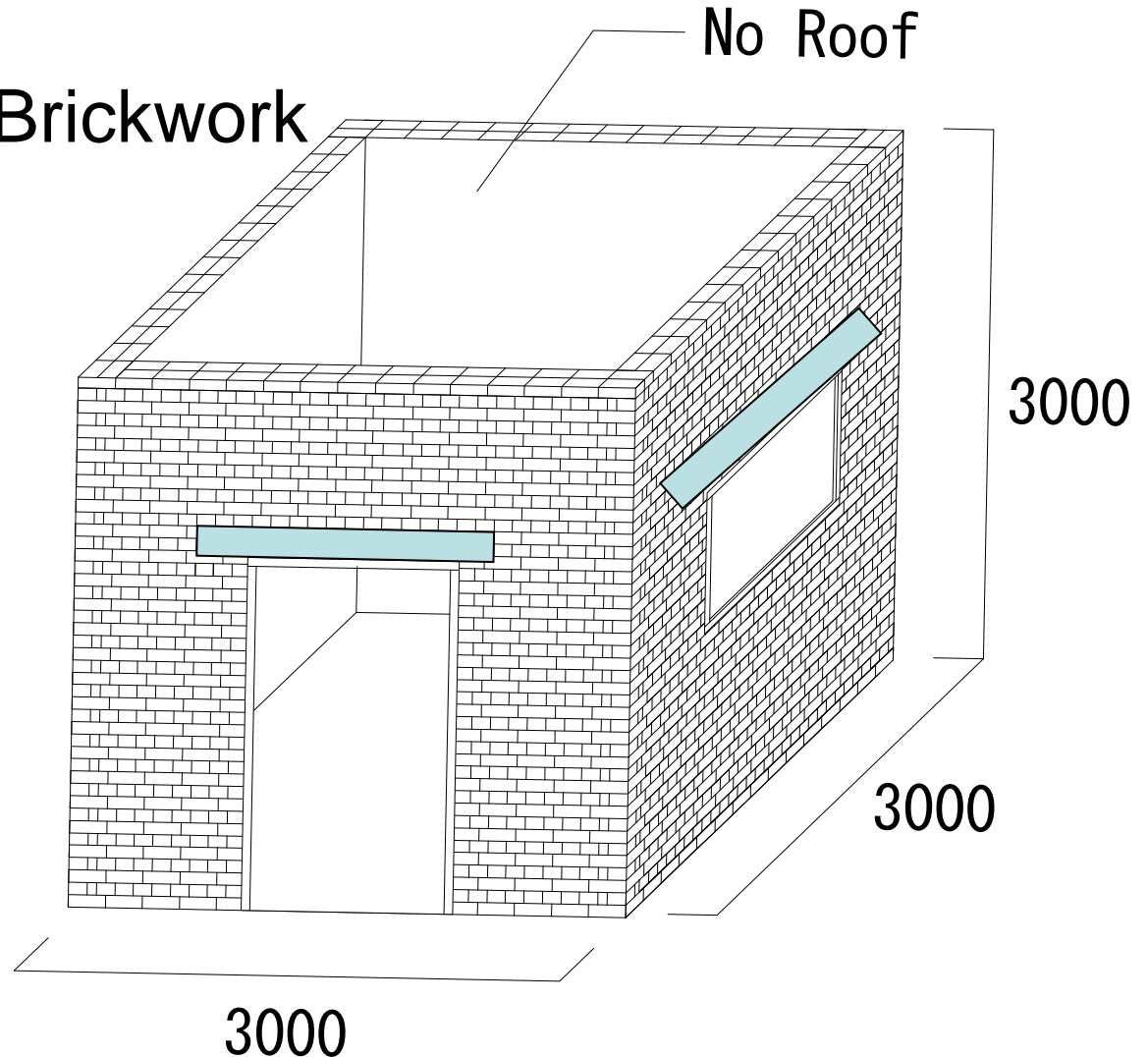
To get a dynamic test technique for brick structures

# Test Structure

- Dimension : Breadth 3m, Length: 3m, Height:3m
- No Roof
- English Bond Brickwork



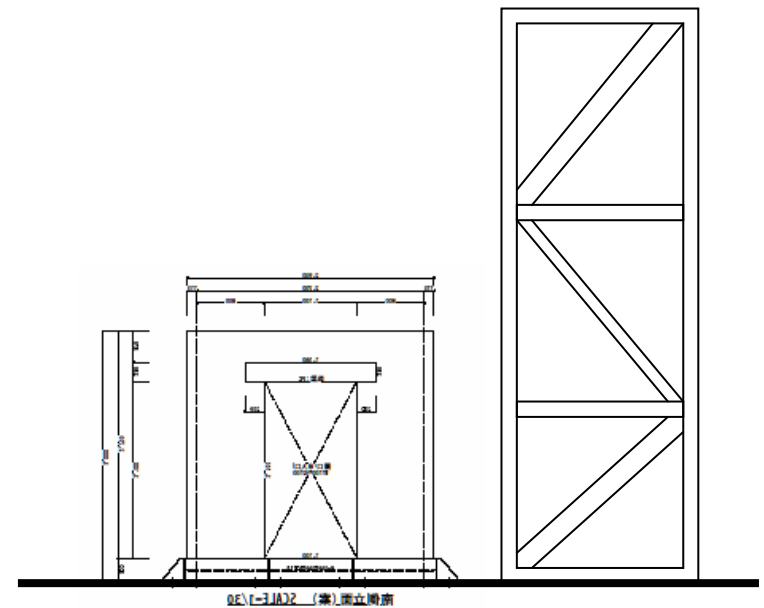
Setting on Table



# Measurements

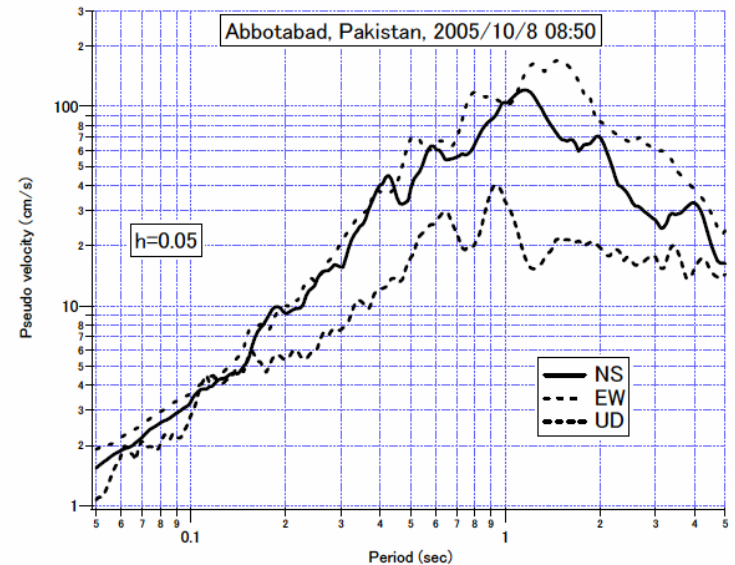
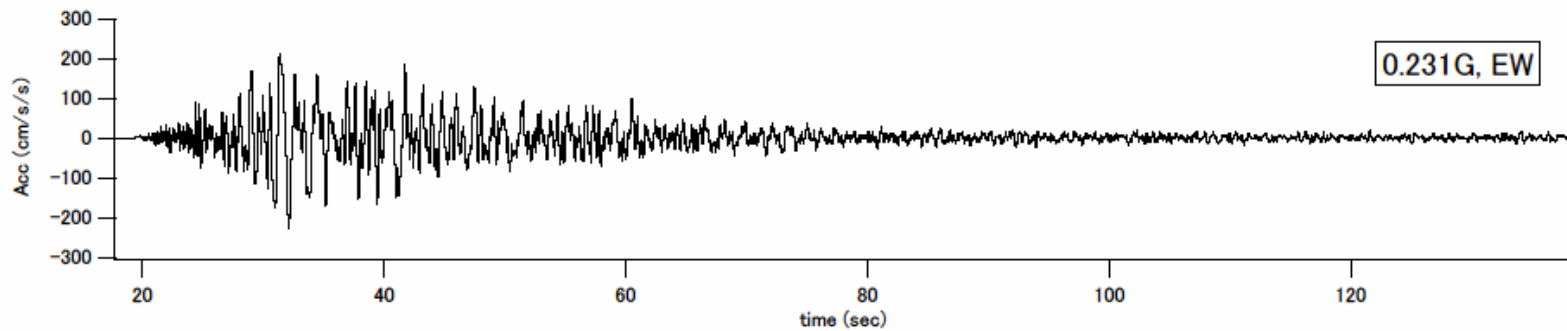
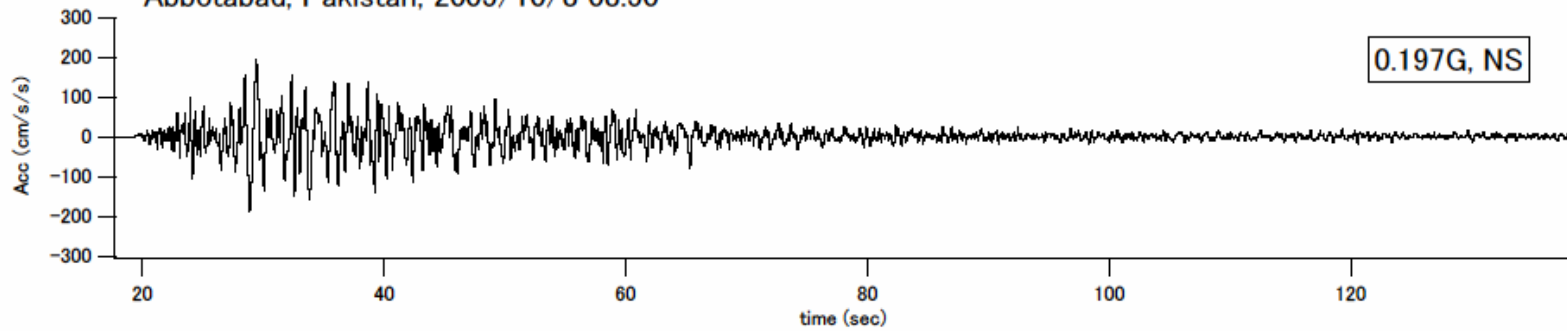
- Video Recording
- Acceleration Recording
- Deformation Recording
- Strain Recording

Rigid Measurement Frame



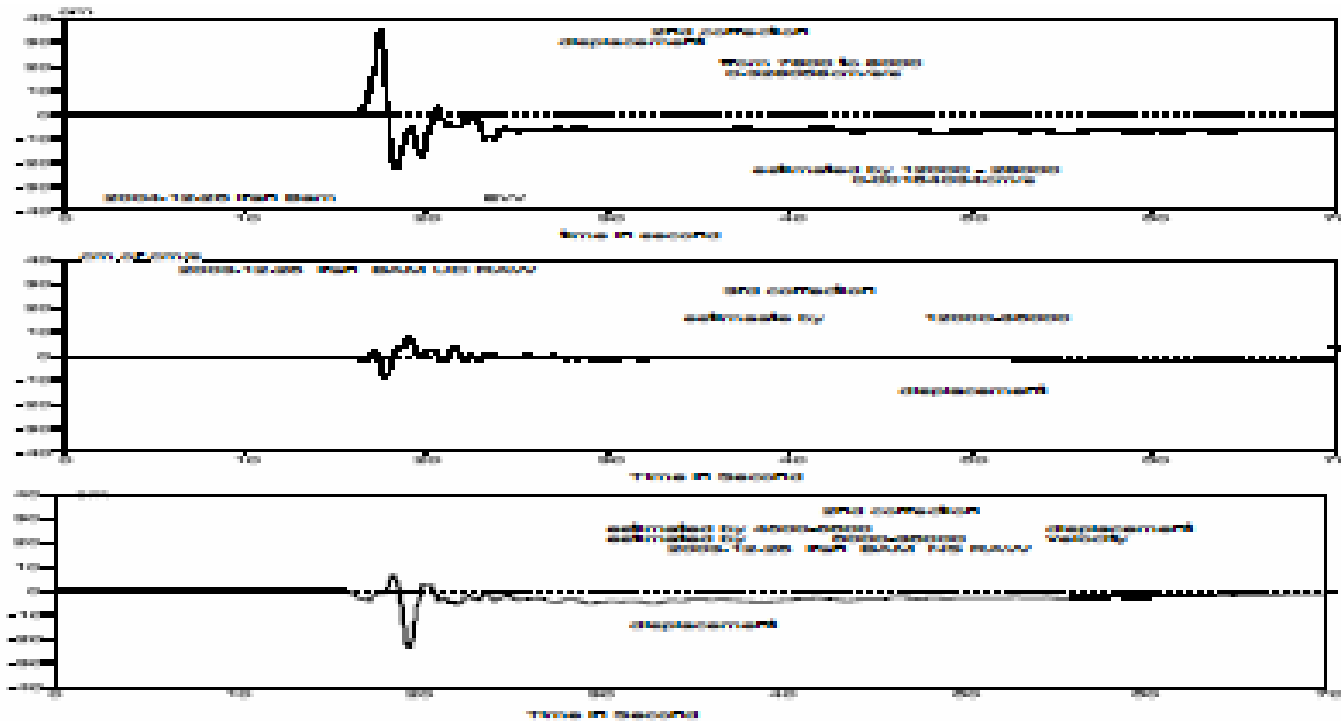
# Oct. 8 2005 Pakistan Record by Okawa BRI

Abbotabad, Pakistan, 2005/10/8 08:50



Dec. 26 2006

# Bam Earthquake Record



Corrected BAM DISPLACEMENTS by the simple method <sup>2)</sup>

Maximum corrected values are

	Acceleration	Velocity	Displacement
L(EW)	799.22 cm/s <sup>2</sup> (-742.68 cm/s <sup>2</sup> )	-126.96 cm/s (59.49 cm/s)	34.98 cm (-22.74 cm)
V(UD)	-988.28 cm/s <sup>2</sup> (798.44 cm/s <sup>2</sup> )	41.59 cm/s (-38.81 cm/s)	-9.29 cm (7.22 cm)
T(NS)	636.37 cm/s <sup>2</sup> (-566.89 cm/s <sup>2</sup> )	-60.80 cm/s (52.47 cm/s)	-24.04 cm (8.80 cm)

# Nominated Shaking Table Inputs

- Oct. 8 2005 Pakistan Record  
Abbotabad EW  
0.23G Full Scale
- Dec. 26 2003 Bam Record  
Bam EW  
0.8G 2/3 Scale (0.55G, 0.8m/s 0.2m)
- Others