

# QUAKE BULLETIN

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## EARTHQUAKE EVENTS:

This database will give the information about the earthquakes that occurred worldwide and in India in the month of September, 2012. The list of the earthquakes is as follows:

### Worldwide:

(Source: <http://earthquake.usgs.gov/earthquakes/>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
5/9/2012	14:42:08	10.086°N	85.305°W	40.0	7.6	Costa Rica
7/9/2012	03:19:42	27.541°N	103.973°E	10.0	5.6	Sichuan Yunnan Guizhou Region, China
26/9/2012	23:39:56	51.634°N	178.293°W	10.0	6.4	Andreanof Island, Alaska

### India wide:

(Source: Indian Meteorological Department, IMD,  
<http://www.imd.gov.in/section/seismo/dynamic/CMONTH.HTM>)

Date	Time (UTC)	Lat	Long	Depth (km)	Mw	Location
4/9/2012	07:42:35	26.3°N	92.5°E	20	3.1	Marigaon, Assam
6/9/2012	18:27:09	25.7°N	91.1°E	10	4.2	West Khasi Hills, Meghalaya
10/9/2012	15:43:07	17.4°N	73.5°E	10	3.2	Koyna Region, Maharashtra
11/9/2012	11:09:50	23.9°N	94.0°E	10	4.0	India-Myanmar Border Region
11/9/2012	18:09:48	24.6°N	93.7°E	33	3.7	Manipur
16/9/2012	19:29:06	28.9°N	77.4°E	24	3.4	Baghpat, Uttar Pradesh
18/9/2012	12:26:21	27.4°N	88.5°E	10	4.1	Sikkim
18/9/2012	23:12:52	26.4°N	93.3°E	45	3.5	Karbi Anglong, Assam
21/9/2012	14:20:42	26.2°N	95.2°E	96	4.1	Myanmar-India Border Region

## GROUND MOTION RECORDS:

In our centre around 201 ground motion records are available. Since 1973 the ground motions are available with N-S, E-W and U-D components. All the available ground motions are listed.

(Source: PESMOS-IITR)

S No	Earthquake	Date	Station	Component
1	Hindukush	03 Jan 2009	Keylang	E-W
2	Hindukush	03 Jan 2009	Keylang	N-S
3	Hindukush	03 Jan 2009	Keylang	U-D
4	Kinnaur	09 Jan 2009	Nathpa	E-W
5	Kinnaur	09 Jan 2009	Nathpa	N-S
6	Kinnaur	09 Jan 2009	Nathpa	U-D
7	Kinnaur	09 Jan 2009	Recong Peo	E-W
8	Kinnaur	09 Jan 2009	Recong Peo	N-S
9	Kinnaur	09 Jan 2009	Recong Peo	U-D
10	Pithoragarh	11 Jan 2009	Pithoragarh	E-W
11	Pithoragarh	11 Jan 2009	Pithoragarh	N-S
12	Pithoragarh	11 Jan 2009	Pithoragarh	U-D
13	Delhi	13 Jan 2009	Dhaura Kuan	E-W
14	Delhi	13 Jan 2009	Dhaura Kuan	N-S
15	Delhi	13 Jan 2009	Dhaura Kuan	U-D
16	Delhi	13 Jan 2009	Kalkaji	E-W
17	Delhi	13 Jan 2009	Kalkaji	N-S
18	Delhi	13 Jan 2009	Kalkaji	U-D

The records are available at server ([\\10.2.28.225](http://10.2.28.225))

### **IIIT LIBRARY:**

#### **New Arrivals:**

- ✓ MS Shetty (2009), "Concrete Technology: Theory and Practice", S Chand publishers
- ✓ Lowrie and William (2007), "Fundamentals of Geophysics", Cambridge University Press
- ✓ Telford, W M (2010), "Applied Geophysics", Cambridge University Press

### **EERC LIBRARY:**

#### **Publications:**

The following publications are very useful for research and are available in server

- ❖ R Guragain, AM Dixit and Kimiro Meguro (2012)., "Development of Fragility Functions for Low Strength Masonry Buildings in Nepal using Applied Element Method", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 431.
- ❖ Saleem M Umair, Muneyoshi Numada and Kimiro Meguro (2012)., "In Plane Behavior of Polypropylene and FRP Retrofitted Brick Masonry Wallets under Diagonal Compression Test"

", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 500.

❖ Kimiro Meguro, Sathiparan Navaratnaraj, Kotaro Sakurai and Muneyoshi Numada (2012)., "Shaking Table Test of Two Storey Masonry House Model Retrofitted by PP Band Mesh", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 2179.

❖ Kimiro Meguro, Rajendra Soti, Sathiparan Navaratnaraj and Muneyoshi Numada (2012)., "Dynamic Behavior of Masonry Houses Retrofitted by Bamboo Band Meshes", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 2182.

❖ Kimiro Meguro, Naoki Sorimachi and Muneyoshi Numada (2012)., "Development of Promotion Systems for PP Band Retrofitting of Non-Engineered Masonry Houses", Proceedings of 15<sup>th</sup> World Conference on Earthquake Engineering, Lisbon, Portugal, Paper ID: 2188.

### **Reports:**

The following reports are very useful for research and are available in server

❖ John Douglas (2011)., "Ground Motion Prediction Equations 1964-2010", PEER Report 2011/102, Pacific Earthquake Engineering Research Centre, College of Engineering, Univ. of California, Berkeley.

The publications and reports are available at server ([\\10.2.28.225](http://10.2.28.225))