

APPENDIX - 2

**List Of Earthquakes From IMD Catalogue Occurring Between LAT. 29.00 To 31.00 DEG. N And
LONG. 80.00 To 81.00 DEG. E For The Period 1803 To FEB. 2004**

DATE	0 - TIME	LAT	LONG	DEPTH	MAG
1803 0 0	0	30	80	0	6.5
1816 5 26	0	30	80	0	6.5
1843 4 11	0	30	80	0	5
1916 8 28	6 29 30.0	30	81	0	7.5
1926 7 27	7 23 36.0	30.5	80.5	0	6
1927 10 8	10 34 28	30.5	80.5	0	6
1935 3 5	22 15 59	29.6	80.4	0	5.8
1935 3 15	10 33 52	29.6	80.4	0	5.4
1945 6 4	12 8 55	30.3	80	0	6.5
1961 12 24	7 13 30	29.43	80.83	59	5.5
1963 1 30	10 33 50	29.5	80.9	0	5.5
1964 9 26	0 46 2.6	29.96	80.46	50	5.8
1964 10 6	20 19 32.1	29.4	80.98	11	5.3
1965 3 18	2 41 30.3	29.55	80.26	67	5
1965 5 13	10 51 19.4	29.62	80.33	75	4.8
1966 6 27	10 41 8.1	29.62	80.83	33	6
1966 6 27	10 47 45.1	29.55	80.99	43	5.3
1966 6 27	10 49 51	29.5	80.9	72	5.4
1966 6 27	10 59 18.1	29.71	80.89	36	6
1966 6 27	11 21 42	29.57	80.82	26	5.2
1966 6 27	13 55 49.3	29.62	80.93	18	5.3
1966 6 28	15 43 38	29.5	81	29	4.9
1966 6 29	0 42 10	29.69	80.86	21	5.2
1966 12 16	20 52 16.3	29.62	80.79	19	5.7
1966 12 16	22 12 49.7	29.61	80.9	7	4.9
1966 12 18	22 42 37	29.53	80.91	16	4.7
1966 12 21	22 10 59.3	29.65	80.79	21	5.2
1968 5 27	18 35 57.7	29.76	80.51	27	4.9
1969 12 5	18 45 13.9	29.13	80.95	33	4.9
1973 2 10	6 51 20.8	30.51	80.34	0	4.6
1978 2 28	17 26 4.5	29.33	80.69	53	4.7
1978 12 12	10 0 52.8	29.2	80.94	56	4.4
1978 12 14	20 16 37	29.64	80.39	33	4.1
1979 3 29	1 58 59.9	29.9	80.31	33	4.2
1979 5 20	22 59 11.5	29.93	80.27	0	5.7
1980 7 29	18 44 22	29.42	80.81	18	4.4
1980 7 30	1 0 38.6	29.62	80.81	4	4.9
1980 7 31	14 22 1.4	29.46	80.94	33	4.5
1980 8 4	16 52 43.6	29.28	80.99	71	4.3
1980 9 8	7 42 6.9	29.92	80.36	33	4.4
1981 3 6	5 58 47.8	29.8	80.66	23	5.1
1982 12 6	11 52 14.1	29.84	80.65	0	4.2
1983 7 5	17 26 49.6	29.3	80.86	33	4.5
1984 2 19	15 46 25.8	29.84	80.54	21	5.1
1984 10 24	8 19 81.3	29.56	80.13	56	4.2
1984 12 18	22 46 57.3	29.34	80.9	33	4.6
1987 7 23	21 1 46.0	29.94	80.7	33	4.2
1987 10 19	19 38 32	29.5	80.81	33	0
1988 5 15	20 23 3.0	29.76	80.44	6	4.9
1989 3 16	4 42 33	30	80.62	33	0
1989 8 28	19 8 53	29.32	80	10	4.3

APPENDIX - 2

1990 2 9	15 51 22.6	29.89	80.64	33	4.6
1990 3 21	13 25 18	30.2	80.6	33	0
1991 5 26	5 29 14	29.43	80.29	51	4.5
1991 5 27	21 6 55	29.49	80.28	28	4.9
1991 5 28	8 44 35.4	30.24	80.38	33	0
1991 6 10	21 30 10.6	29.35	80.22	43	4.5
1991 8 17	13 30 28	30.1	80.9	33	0
1992 7 26	23 31 33.6	29.1	80.2	33	3.5
1993 3 25	20 16 55.6	29.6	80.6	33	4.6
1993 8 19	3 49 27.2	30	80	33	4.4
1993 11 14	13 20 37.6	30.6	80.3	33	4.4
1995 7 15	6 39 41	29.7	80.4	33	4.3
1996 2 7	10 57 0	29.5	80.8	33	4.2
1996 2 7	10 57 1.1	29.5	80.5	33	4.1
1996 4 4	23 3 10.4	30.3	80.6	33	2.4
1997 1 5	8 47 25.4	29.84	80.53	33	5.6
1997 1 5	9 11 11.2	29.7	80.6	33	0
1997 1 5	11 38 24.5	29.7	80.6	33	0
1997 5 2	20 9 28.8	29.4	80.4	33	4.6
1998 1 19	12 12 46.5	29.9	80.7	33	0
1998 5 24	6 26 12.3	29.47	80.7	3	4.3
1998 10 11	20 22 53.9	29.9	80.1	30	3.1
1998 10 22	20 11 6.9	30.5	80.4	33	3.1
1999 2 11	21 53 35.1	29.01	80.86	15	3.1
1999 2 17	15 32 27.6	30.04	80.64	20	2
1999 2 19	23 40 35.2	29.1	80.78	6	3.1
1999 3 14	3 49 32.3	30.09	80.32	20	2.9
1999 4 7	18 49 27.5	30.6	80.1	15	2.9
1999 5 3	21 23 22.9	30.6	80.73	10	2.8
1999 9 8	1 57 4.5	30.37	80.3	33	3.2
2000 2 11	0 55 24	30.98	80.29	33	2.7
2000 3 30	8 4 19	29.73	80.35	15	3
2000 4 25	21 40 15.9	29.46	80.32	5	3
2000 5 16	8 28 20.6	29.86	80.46	20	2.8
2000 6 16	0 9 23.5	30.74	80.71	5	2.3
2000 7 4	9 21 18	29.83	80.72	55	2.6
2000 12 18	16 45 35.9	29.82	80.2	5	3.1
2001 3 12	22 53 36.9	29.66	80.47	33	3.2
2001 3 16	1 52 7.2	29.49	80.8	33	2.9
2001 3 16	4 38 54.9	30.66	80.86	33	3.1
2001 3 21	18 51 28.5	30.53	80.99	33	2.4
2001 3 22	2 46 33.3	30.31	80.96	33	2.3
2001 3 30	23 5 18.9	30.93	80.2	33	2.8
2001 4 8	4 39 11.1	30.69	80.52	15	2.5
2001 5 25	15 6 1.5	29.96	80.35	2	3.6
2001 6 17	5 57 40.1	30.84	80.95	33	2.5
2001 7 14	0 0 24.5	30.04	80.11	33	2.8
2001 7 25	15 25 17.8	30.46	80.37	15	2.9
2001 7 25	19 1 53.3	30.1	80.43	33	3.4
2001 9 13	6 20 36	29.77	80.64	15	4.2
2001 11 9	9 28 52	29.69	80.51	14	2.1
2001 12 7	4 50 45.7	29.63	80.93	33	3.8
2001 12 22	1 43 40	29.16	80.57	10	3.4
2002 1 5	6 6 1.3	30.12	80.05	10	2.9

APPENDIX - 2

2002 1 13	13 32 57.4	29.93	80.2	10	2.7
2002 1 19	21 42 7.9	29.16	80.75	33	3.4
2002 2 17	17 10 31.8	29.29	80.99	5	3
2002 2 18	16 18 7	29.76	80.04	11	2.9
2002 3 9	18 43 1.6	30.02	80.1	5	3.7
2002 4 6	6 56 24	29.17	80.83	4	0
2002 7 1	1 51 53.5	30.73	80.46	33	3
2002 7 8	16 5 17.4	29.45	80.44	27	3.2
2002 8 1	16 53 2.2	29.89	80.54	10	3.5
2002 8 9	19 35 48.6	29.19	80.97	33	3.8
2002 9 9	14 37 14.6	29.43	80.2	10	3.1
2002 9 29	14 3 22.5	30.07	80.07	13	4.2
2002 10 18	2 31 40	29.56	80.68	33	2.8
2003 1 18	19 46 44.3	29.97	80.84	33	3.6
2003 3 21	12 25 14.6	29.88	80.74	33	3.7
2003 3 21	12 47 42.1	29.47	80.25	33	2.8
2003 3 26	13 56 7.3	29.74	80.84	12	3.1
2003 4 2	3 3 39.4	30.59	80.66	10	3.3
2003 4 4	7 2 32.6	30.05	80	33	4.4
2003 5 25	17 48 36.3	29.53	80.65	3	2.6
2003 6 2	10 8 14.9	30.11	80.57	10	3.2
2003 6 15	8 18 24.9	29.85	80.57	10	3.1
2003 6 27	1 23 44.8	30.21	80.45	12	2.5
2003 7 4	23 51 38.1	30.42	80.46	11	3
2003 7 15	8 15 52.2	29.7	80.7	10	3
2003 8 28	22 45 10.2	30.36	80.48	15	3.6
2003 9 3	13 31 47.5	30.35	80.57	33	2.1
2003 9 3	13 57 57.5	30.53	80.8	33	2.7
2003 9 3	15 45 26.8	30.49	80.5	24	2.1
2003 9 3	23 21 7.9	30.49	80.34	33	4.5
2003 9 3	23 30 1.8	30.32	80.27	33	2.1
2003 9 5	5 37 4.2	30.75	80.91	33	2.6
2003 9 8	16 9 14.6	30.61	80.29	20	2.4
2003 9 12	20 54 6.3	29.49	80.03	33	2.5
2003 9 23	11 41 4.3	29.88	80.93	33	2.7
2003 12 11	14 44 9.0	30.64	80.46	10	3.2
2003 12 14	17 12 2.7	30.56	80.56	33	3.4
2004 1 9	20 37 11.2	29.49	80.93	10	3.6
2004 2 14	7 30 59.6	29.67	80.77	18	3.4
2004 2 17	12 58 46.1	30.31	80.3	10	2.9
2004 2 17	16 2 20.1	30.23	80.62	10	1.9
2004 2 17	16 3 36.4	30.14	80.51	12	2.5
2004 2 18	8 58 28.1	30.06	80.41	10	2.3
2004 2 19	15 53 43.5	30.17	80.91	10	3.7
2004 2 22	15 38 4.6	29.27	80.92	10	3.4

NO. OF EARTHQUAKES = 150

EXPLANATION OF COMPUTER OUTPUT (IMD CATALOGUE)

1. "O" - Time means time of origin of earthquake in UTC
2. "Depth" means focal depth in kilometers. If depth is reported as 33, it means that the earthquake is located in the crust but its focal depth could not be determined.
3. "MAG" means magnitude on Richter Scale.
4. "Zeros" under any column means that the parameters have not been determined.

U. S. GEOLOGICAL SURVEY
EARTHQUAKE DATA BASE

LOCATION: MANGTI LANDSLIDE

Circle Search Earthquakes= 39

Circle Center Point Latitude: 30.000N Longitude: 80.750E

Radius: 50.000 km

Catalog Used: PDE

Data Selection: Historical & Preliminary Data

CAT	YEAR	MO	DA	ORIG TIME	LAT	LONG	DEP	MAGNITUDE	IEFM NFPO TFS	DTSVNWG	DIST km
PDE	1978	03	21	000552.60	30.00	81.13	76		..	.....	36
PDE	1979	05	20	225914.20	30.03	80.31	33	5.90 Ms GS	.F	.....	42
PDE	1980	07	30	010042.70	29.60	80.74	33	4.80 mb GS	.F	.....	44
PDE	1980	09	08	074207.30	30.00	80.43	33	4.50 mb GS	..	.....	30
PDE	1981	03	06	055849.90	29.81	80.66	43	4.90 mb GS	..	.....	23
PDE	1984	02	19	154625.77	29.87	80.55	21	5.00 mb GS	..	.....	24
PDE	1987	07	23	210145.01	29.91	80.88	33	4.00 mb GS	..	.....	16
PDE	1988	05	15	202305.70	29.86	80.48	25	4.80 mb GS	.F	.....	30
PDE	1988	11	24	142600.17	29.73	80.68	33		..	.....	31
PDE	1990	02	09	155123.02	29.92	80.73	33	4.60 mb GS	..	.....	8
PDE	1991	05	28	084435.41	30.24	80.38	33		..	.....	44
PDE	1993	03	25	201655.62	29.62	80.55	33	4.60 mb GS	..	.....	45
PDE	1997	01	05	084725.40	29.84	80.53	33	5.60 mb GS	.DFM	.....	27
PDE	1997	01	05	091111.25	29.73	80.59	33		..	.....	33
PDE	1997	01	05	113824.53	29.67	80.57	33		..	.....	40
PDE	1998	01	19	121246.52	29.97	80.73	33		..	.....	4
PDE	2001	07	11	194439.32	29.92	81.06	33		..	.....	30
PDE	2001	09	13	062035.34	29.76	80.49	36	4.40 mb GS	..	.....	36
PDE	2002	06	05	004429.91	30.08	81.02	33		..	.....	27
PDE	2002	06	05	035901.40	30.19	81.21	33		..	.....	49
PDE	2003	03	21	122511.36	29.75	80.57	33	4.20 mb GS	..	.....	33
PDE	2003	08	28	224510.94	30.39	80.59	33	3.90 mb GS	..	.....	45
PDE	2004	02	14	073059.65	29.84	80.89	10		..	.....	22
PDE	2004	02	18	083756.03	30.37	81.01	10		..	.....	48
PDE	2004	03	01	174118.60	30.37	80.50	58	4.80 mb GS	..	.....	47
PDE	2004	04	03	025110.61	29.85	81.12	76	4.60 mb GS	..	.....	39
PDE	2004	04	17	071524.73	29.70	81.05	10	4.10 mb GS	.F	.....	43
PDE	2004	06	15	125149.45	30.37	80.98	10		..	.....	46
PDE	2005	01	16	084346.80	29.65	80.70	10	4.80 mb GS	.F	.....	39
PDE	2005	08	21	195333.89	29.97	80.59	35	3.50 mb GS	..	.....	16
PDE	2005	10	25	014314.16	29.91	81.03	63	3.80 mb GS	..	.....	28
PDE	2005	10	25	015126.54	30.15	81.21	49	4.90 mb GS	..	.....	46
PDE	2005	10	25	025128.31	30.05	81.09	10	3.80 mb GS	..	.....	33
PDE-W	2006	02	01	222415.92	30.29	80.48	50	4.90 mb GS	..	.....	40
PDE-W	2006	02	14	191733.26	30.26	80.53	62	4.50 mb GS	..	.....	36
PDE-W	2006	09	26	040420.12	29.76	80.52	6	4.70 mb GS	.F	.....	34
PDE-W	2006	10	04	213453.63	29.73	80.37	10	3.90 mb GS	..	.....	47
PDE-W	2006	10	27	010732.96	29.85	80.54	38	4.10 mb GS	..	.....	25
PDE-W	2006	11	12	134632.69	29.82	80.65	35	3.80 mb GS	..	.....	21