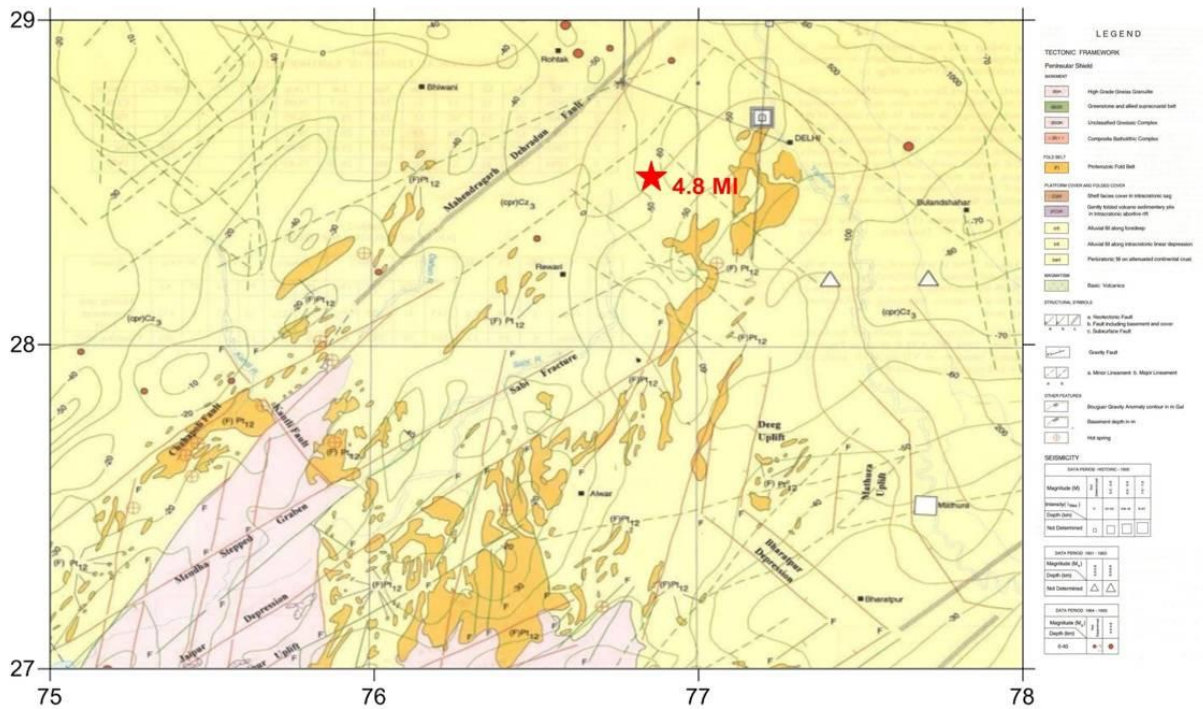




GOVERNMENT OF INDIA  
GEOLOGICAL SURVEY OF INDIA

**A note on earthquake of magnitude 4.8  $M_L$  of 2<sup>nd</sup> June 2017 (IST) in Haryana, India**

A light earthquake of magnitude 4.8  $M_L$  occurred at a depth of 52.8 km in Haryana, India on 1<sup>st</sup> June 2017 at 22hrs:55min:57.6sec. (UTC) and at 04hrs: 25min: 57.6sec. on 2<sup>nd</sup> June 2017 (IST). The epicentre of the earthquake has been located at Latitude 28.517°N and Longitude 76.854°E using data recorded at three Seismo-geodetic observatories of GSI located at Agartala, Itanagar and Jammu. The epicentre of the earthquake is located near Mundakhera/Badsa close to Delhi/Haryana border and shown on the tectonic map of the region (Fig.1). The waveform of the event with location parameters are presented in Fig. 2 (a& b) respectively.



**Fig.1 Tectonic map of the region (from Seismotectonic Atlas of India and its Environs, GSI, 2000). The red star shows the location of the epicentre of the earthquake.**

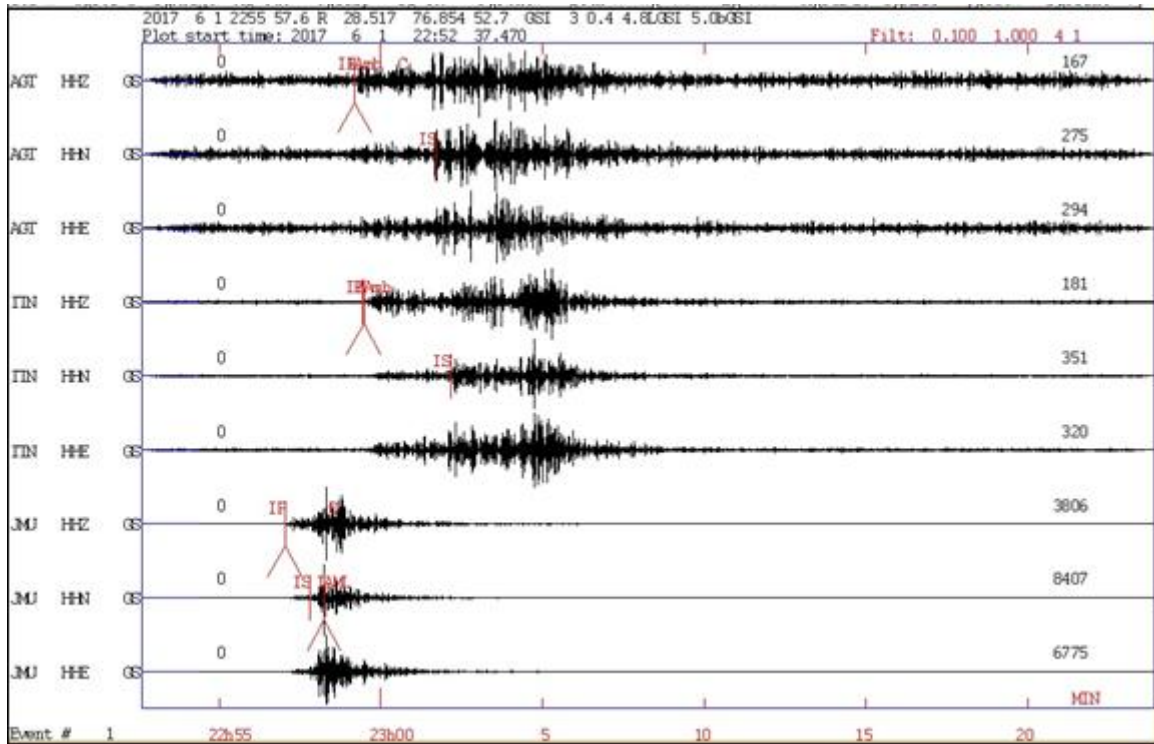


Fig. 2(a) Waveform of the earthquake.

date	hrmn	sec	lat	long	depth	no	m	rms	damp	erln	erlt	erdp			
17 6 1	2255	57.59	2831.00N	76 51.2E	52.8	7	3	0.44	0.000	33.0	26.0	126.2			
stn	dist	azm	ain	w	phas	calc	phs	hrmn	tsec	t-obs	t-cal	res	wt	di	
JMU	501	338.4	90.4	0	P	C	PG	2257	1.6	63.97	64.18	-0.22	1.00	*10	
JMU	501	338.4					D	2257	1.6	64.0					
JMU	501	338.4			AZ					165.6	157.4	8.22	0.20	4	
JMU	501	338.4	90.4	0	S		SG	2257	49.1	111.51	111.68	-0.17	1.00	*19	
JMU	501	338.4			IAML			2258	14.6	137.0					
AGT	1531	106.4	80.1	0	P	C	Pn	2259	10.8	193.23	192.35	0.88	0.98	*18	
AGT	1531	106.4			IAMB			2259	11.0	193.4					
AGT	1531	106.4	78.1	0	S		Sn	23	1	40.6	343.00	344.38	-1.38	0.94	*6
ITN	1656	91.5	70.3	0	P		Pn	2259	25.5	207.92	207.22	0.69	0.98	*25	
ITN	1656	91.5			IAMB			2259	27.7	210.1					
ITN	1656	91.5	77.6	0	S		Sn	23	2	9.3	371.72	371.62	0.10	1.00	*19
JMU	HN	hdist:	503.8	amp:	3441.2	T:	0.7	m1 =	4.8						
ITN	HZ	dist:	1656.0	amp:	46.4	T:	0.5	mb =	5.0						
2017	6 1	2255 57.6 R	28.517	76.854	52.8	GSI	3 0.4	4.8	L	GSI	5.0	b	GSI		

Fig. 2(b) Location parameters of the earthquake.