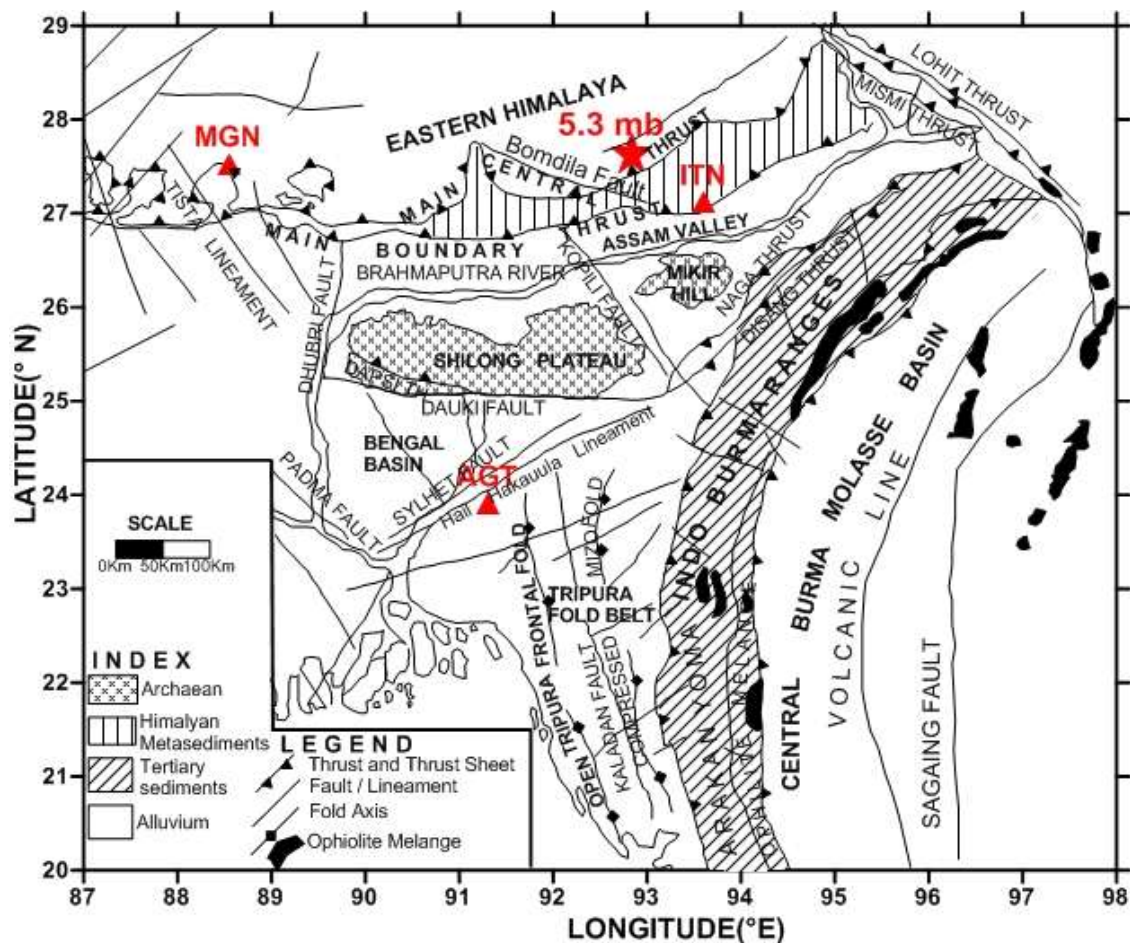




**GOVERNMENT OF INDIA  
GEOLOGICAL SURVEY OF INDIA**

**A note on the moderate earthquake (5.3 mb) occurred on 19<sup>th</sup> July,  
2019 near Bameng, Arunachal Pradesh**

A moderate earthquake of magnitude 5.3 mb occurred at 20 km depth on 19<sup>th</sup> July, 2019 at 22Hrs 54Min 26.9Sec. (UTC) and 04hrs: 24min: 26.9Sec. (IST) (20<sup>th</sup> July, 2019). The epicentre of the earthquake has been located at Latitude 27.627 °N and Longitude 92.835 °E using data recorded at Seismo-Geodetic observatories of GSI at Jammu, Lucknow, Mangan(Sikkim), and Pune. The epicentre of the earthquake lies at 15 km in North-West direction from Bameng, Arunachal Pradesh as shown in Fig.1. The waveform and location parameters of the earthquake are presented in Fig.2 and Fig.3, respectively.



**Fig.1: Map showing the location of the earthquake (5.3 mb) occurred on 19<sup>th</sup> July, 2019 with red star. The red triangles show the location of the observatories (AGT:Agartala, ITN:Itanagar and MGN:Mangan).**

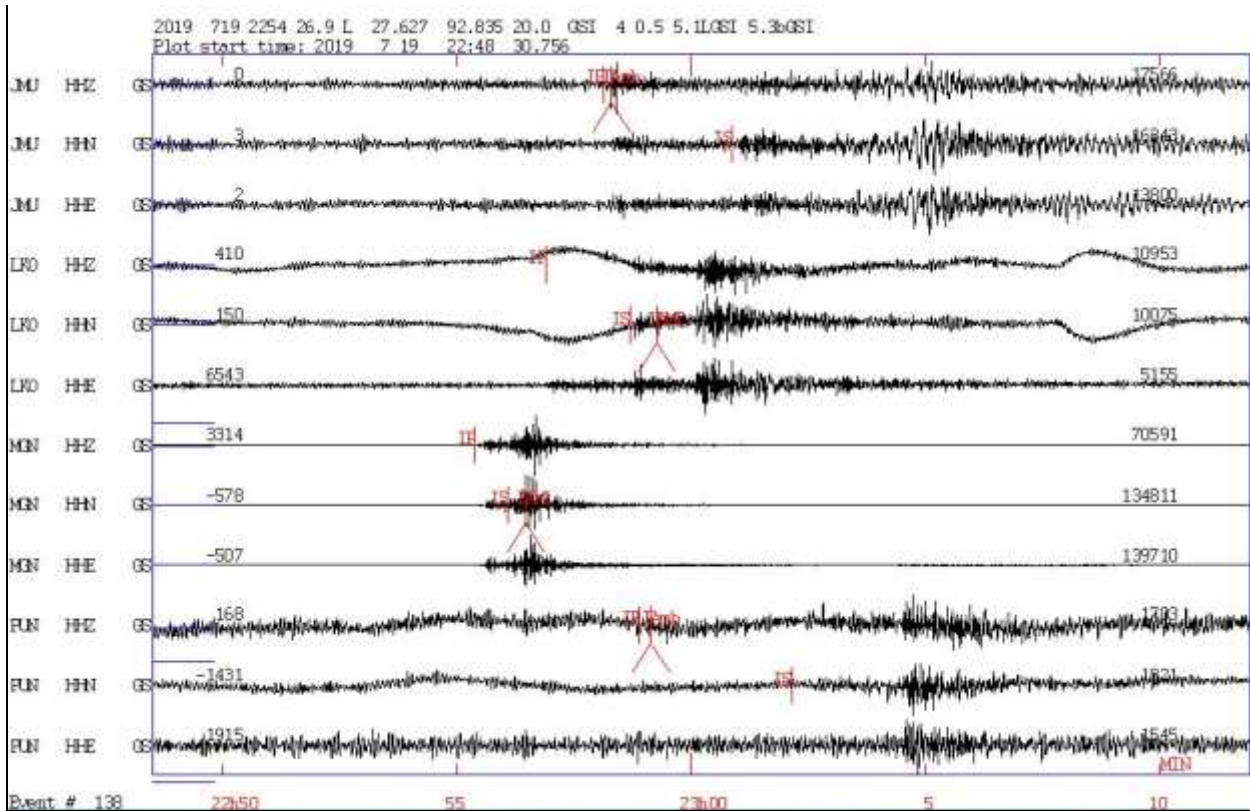


Fig.2: Waveform of the earthquake (5.3 mb) occurred on 19<sup>th</sup> July, 2019.

date	hrmn	sec	lat	long	depth	no	m	rms	damp	erln	erlt	erdp				
19	719	2254	26.86	2737.65N	92 50.1E	20.0	8 3	0.45	0.000	71.2	31.4	80.5				
stn	dist	azm	ain	w	phas	calcphs	hrmn	tsec	t-obs	t-cal	res	wt	di			
MGN	425	268.9	53.1	0	P	PN5	2255	22.9	56.01	56.36	-0.35	1.00	13			
MGN	425	268.9	53.1	0	S	SN5	2256	5.3	98.48	98.06	0.42	1.00	21			
MGN	425	268.9	0	0	IAML		2256	27.8	120.9							
LKO	1180	268.8	50.9	0	P	PN6	2256	53.3	146.49	146.04	0.45	0.93*12				
LKO	1180	268.8	50.9	0	S	SN6	2258	40.4	253.56	254.12	-0.56	0.93*21				
LKO	1180	268.8	0	0	IAML		2259	15.6	288.7							
JMU	1816	292.4	50.9	0	P	PN6	2258	7.7	220.83	220.84	-0.01	0.35*9				
JMU	1816	292.4	0	0	I Amb		2258	17.4	230.5							
JMU	1816	292.4	50.9	0	S	SN6	23 0	51.3	384.41	384.26	0.15	0.35*24				
PUN	2183	246.6	50.9	0	P	PN6	2258	53.1	266.20	263.98	2.22	0.02*0				
PUN	2183	246.6	0	0	I Amb		2259	7.7	280.9							
PUN	2183	246.6	50.9	0	S	SN6	23 2	8.4	461.57	459.32	2.25	0.02*0				
MGN	HN	hdist:	425.5	amp:	10396.2	T:	0.8	ml =	5.1							
LKO	HN	hdist:	1180.2	amp:	715.2	T:	0.4	ml =	5.0							
JMU	HZ	dist:	1816.0	amp:	455.4	T:	0.6	mb =	5.8							
PUN	HZ	dist:	2183.0	amp:	54.0	T:	1.1	mb =	4.8							
2019	719	2254	26.9	L	27.627	92.835	20.0	GSI	4	0.5	5.1	L	GSI	5.3	b	GSI

Fig.3: Location parameters of the earthquake (5.3 mb).

*SGDRPC, M-IV, CHQ, GSI, KOLKATA*