

**Synoptic feature :** Last week, under the influence of Upper Air Cyclonic Circulation over West Central Bay of Bengal & adjoining coastal Andhra Pradesh & South Odisha, a Low Pressure Area formed over West Central Bay of Bengal and adjoining North Bay of Bengal off Andhra Pradesh & South Odisha coast with an associated Cyclonic Circulation extended upto Mid-Tropospheric Level on 9<sup>th</sup>, it lay over northern parts of Central Bay of Bengal & adjoining North Bay of Bengal with associated Cyclonic Circulation extended upto Mid-Tropospheric Level on 10<sup>th</sup>, it lay as a Well Marked Low over North-West Bay of Bengal & neighbourhood with associated Cyclonic Circulation extended upto Mid-Tropospheric Level on 11<sup>th</sup>, it further intensified into Deep Depression over South Bangladesh & Neighbourhood and moved North-North-Eastward and lay centred at 0830 Hrs IST on 12<sup>th</sup> over South-East Bangladesh & neighbourhood neat Lat. 23.0°N and Long. 91.0°E about 130 KM North-East of Khepupara (Bangladesh) and 100KM South-South-West of Agartala, it further rapidly weakened into Depression and then Well Marked Low and then further weakened into Low Pressure Area over West Assam & neighbourhood with associated Cyclonic Circulation extended upto Mid-Tropospheric Level on 13<sup>th</sup> and became less marked on 13<sup>th</sup> night, Low with associated Cyclonic Circulation extended upto Mid-Tropospheric Level. The Cyclonic Circulation over West Assam & neighbourhood lay over Central parts of Assam & neighbourhood extended upto 0.9 KM above mean sea level on 14<sup>th</sup>.

The trough at mean sea level from Punjab to North Central Odisha ran from North Rajasthan to West Central Bay of Bengal acrossed north Madhya Pradesh, north Chhattisgarh, Odisha on 8<sup>th</sup>, it ran from North Rajasthan to South-East Bay of Bengal acrossed Madhya Pradesh, Chhattisgarh, Odisha and centre of Low Pressure Area on 9<sup>th</sup>, it ran from North Rajasthan to North Andaman sea acrossed Madhya Pradesh, Chhattisgarh, Odisha and centre of Low Pressure Area on 10<sup>th</sup>, it ran from North Rajasthan to East Central Bay acrossed South Uttar Pradesh, Chhattisgarh, Jharkhand, Gangetic West Bengal and centre of Well Marked Low extended upto 0.9 Km above mean sea level on 11<sup>th</sup>, it ran from Punjab to centre of Deep Depression over South-East Bangladesh & neighbourhood acrossed Uttar Pradesh and Bihar extended upto 0.9 KM above mean sea level on 12<sup>th</sup>, it ran from Punjab to centre of Low Pressure Area over West Assam & neighbourhood acrossed Haryana, Uttar Pradesh & Bihar extended upto 0.9 Km above mean sea level on 13<sup>th</sup>, it ran from Punjab to Assam acrossed Haryana, Uttar Pradesh & neighbourhood extended upto 0.9 KM on 14<sup>th</sup>.

The Upper Air Cyclonic Circulation over South-East Bihar & neighbourhood persisted & extended upto 1.5 Km above mean sea level on 8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup> and became less marked on 11<sup>th</sup>.

An Upper Air Cyclonic Circulation lay over central parts of Assam & neighbourhood extended upto 0.9 KM above mean sea level on 14<sup>th</sup>.

**Rainfall distribution and weather activity :** A squall passed over MC Itanagar from North-Northeasterly direction at 1830 Hrs IST with Maximum wind speed reaching 56 KMPH and lasting for 1 minute on 13.6.2017. Southwest monsoon was vigorous over Nagaland, Manipur, Mizoram & Tripura on 13<sup>th</sup>, active over Assam & Meghalaya on 13<sup>th</sup> & 14<sup>th</sup>, over Nagaland, Manipur, Mizoram & Tripura on 12<sup>th</sup>

Available data indicates that extremely heavy falls occurred at isolated places over Mizoram on 13<sup>th</sup>, over Meghalaya on 13<sup>th</sup>, Heavy to very heavy rain occurred at isolated places over Assam & Tripura on 13<sup>th</sup>, and heavy rain occurred at isolated places over Arunachal Pradesh on 14<sup>th</sup>, over Assam on 12<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup>, over Meghalaya on 11<sup>th</sup> & 13<sup>th</sup>, over Mizoram on 13<sup>th</sup> and over Tripura on 9<sup>th</sup> & 12<sup>th</sup>.

Light to moderate rain occurred at most places over Arunachal Pradesh, Assam & Meghalaya on 12<sup>th</sup>, 13<sup>th</sup> & 14<sup>th</sup>, over Nagaland on 12<sup>th</sup>, over Manipur on 12<sup>th</sup> & 13<sup>th</sup>, over Mizoram on 8<sup>th</sup>, 11<sup>th</sup> & 13<sup>th</sup>, over Tripura on 11<sup>th</sup>, 12<sup>th</sup> & 13<sup>th</sup> and at many places over Assam, & Tripura on 9<sup>th</sup>, over Meghalaya on 9<sup>th</sup> & 11<sup>th</sup> and over Mizoram on 10<sup>th</sup>, at a few places over Arunachal Pradesh on 9<sup>th</sup> & 11<sup>th</sup>, over Assam & Nagaland on 10<sup>th</sup> & 11<sup>th</sup>, over Tripura on 8<sup>th</sup> & 10<sup>th</sup>. Light rain occurred at most places over Nagaland on 9<sup>th</sup> & 13<sup>th</sup>, at many places over Manipur on 9<sup>th</sup>, at a few places over Nagaland & Manipur on 14<sup>th</sup>, at isolated places over Assam & Nagaland on 8<sup>th</sup>. and weather was dry over Arunachal Pradesh & Meghalaya on 8<sup>th</sup> & 9<sup>th</sup> and over Manipur on 8<sup>th</sup> June 2017

**No. of Districts showing different rainfall activity in different sub-divisions**

	for the week ending on 14.06.2017					for the period from. 01.6.2017 to 14.06.2017				
	Excess	Normal	Deficient	Scanty	No Rain	Excess	Normal	Deficient	Scanty	No Rain
Arunachal Pradesh	1	1	1	8	0	1	5	3	2	0
Assam & Meghalaya	8	8	10	4	0	8	11	11	0	0
Nagaland, Manipur, Mizoram & Tripura	4	2	4	1	0	6	2	4	0	0

<sup>5</sup>  
**E6xcess +20%, Normal 19% to -19%, Deficient -20% to -59%, Scanty -60% to -99% and No Rain -100%**

**Temperature distribution during the period from 08.06.2017 to 14.6.2017.**

	08.06.2017		09.06.2017		10.06.2017		11.06.2017.		12.06.2017.		13.06.2017		14.06.2017	
States	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
Arunachal Pradesh	AAN		MAN		N		MAN		AN		N		BN	
Assam	MAN		MAN		AN		AAN		AN		ABN		ABN	
Meghalaya	AN		AAN		AN		AAN		AN		N		ABN	
Nagaland														
Manipur	AAN		AAN		N		N		ABN		ABN		BN	
Mizoram														
Tripura	AAN		AAN		AN		AAN		N		MBN		BN	

MAN=Markedly above normal, AAN=Appreciably above normal, AN=Above normal, N=Normal

MBN= Markedly below normal, ABN=Appreciably below normal, BN=Below normal.

**Chief amount of rainfall ( in cm):**

**08.06.17:** . Gundachera = 6,Bishalgarh=5,Lunglei,Serchip=4 (each),Bagafa=2,Lengpui,Guwahati(A/P)=1 (each)

**09.06.17:** Sabroom = 9, Bagafa = 7 ,Bishalgarh ,Lumding & Lunglei= 5 each,Sibsagar & Sonamura= 4 each, Numaligarh ,Bokajan ,Amarpur & Dibrugarh A/P= 3 each,Silchar ,Bahalpur ,B P Ghat ,Jia Bharali N T Xing ,Gossaigaon ,Tirikilla ,Tezu ,Serchip ,Amraghat ,Neamatighat ,Borpathar & Wokha(AWS/ISRO)= 2 each ,Kohima ,Udaipur ,Golaghat( CWC) ,A.D.Nagar ,A P Ghat ,Bihubar ,Basar ,Itanagar ,Golaghat ,Maranhat & Shillong= 1 each.

**10.06.17:** Sabroom=9,Bagafa=7,Bishalgarh,Lumding,Lunglei=5 (each) ,Sibsagar,Sonamura=4(each) ,Numaligarh, Bokajan, Amarpur, Dibrugarh A/P=3(each) ,Silchar, Bahalpur, B P Ghat, Jia Bharali N T Xing, Gossaigaon, Tikrikilla, Tezu,Serchip,Amraghat,Neamatighat,Borpathar,Wokha(Aws/Isro)=2(each) ,Kohima, Udaipur,Golaghat( Cwc),A P Ghat,Bihubar,Basar,Itanagar,Golaghat ,Maranhat,Shillong=1(each) .

**11.6.17:** Williamnagar = 9, Aizwal = 6, Maranhat ,Dharmanagar & Lengpui= 4 each, Barapani ,Shillong ,Passighat ,Agartala A/P & Lumding = 3 each, Golaghat( CWC) ,Kohima ,Lakhipur ,Cherrapunji(RKM) ,Serchip ,B P Ghat ,Silchar ,Mawsynram ,Cherrapunji & Shella = 2 each, Lunglei ,Karimganj ,Amraghat ,Roing ,Bishalgarh ,A P Ghat ,Khowang ,Belonia ,Golaghat & Kanchanpur =1 each.

**12.06.17:**.. N/Lakhimpur,Kampur=7(each),Motunga=6,Belonia,Sonamura,M.C. Itanagar, Gandachera, Basar=5(each), Chhamonu, Shillong,Silchar, Chouldhowaghat=4(each), Khowai,Jharnapani, Itanagar,Puthimari,Cherrapunji(Rkm),Lakhipur,Matijuri,Barapani,Beki-Mathanguri, Cherrapunji, Bagafa,Drf=3(each),Chaparmukh,Goibergaon,Imphal A/P,B P Ghat, Williamnagar,Panbari,Bahalpur, Dharmanagar,Dharamtul,A P Ghat,Karimganj,Udaipur, Kherunighat,Amarpur=2(each), Rangia, Wokha(Aws/Isro),Haflong,Kokrajhar,Tinsukia,Majbat,Kohima,Miao,Seppa,Deomali,Kanchanpur=1(each),

**13.06.17:**.. Cherrapunji =32, Serchip= 24, Mawsynram =19, Aizwal= 18, Shillong= 11, Williamnagar ,Bishalgarh ,Karimganj & Panbari= 10 each, Agartala A/P =9,Goalpara(CWC) ,Khowai & Barpeta =8 each ,A.D.Nagar ,Beki Rd. Bridge & Kailasahar =7 each, B P Ghat ,Beki-Mathanguri ,Aie N H Xing ,Dharmanagar ,Manas N H Xing & Chhamonu = 6 each, Tikrikilla ,Lengpui ,Kokrajhar ,Nalbari ,A P Ghat ,Guwahati A/P ,Bahalpur & Amarpur= 4 each ,Silchar ,Motunga ,Imphal A/P ,Drf ,Majbat ,Jia Bharali N T Xing & Puthimari= 3 each , Dhubri(CWC) ,Tezpur ,Sonamura ,Kanchanpur ,Bhalukpong ,Matijuri ,Dhubri ,Lakhipur ,Golaghat ,Itanagar ,Udaipur ,Golaghat( CWC) & Bagafa =2 each, Wokha(AWS/ISRO) ,Belonia ,Jharnapani ,Badatighat ,M.C. Itanagar ,N/Lakhimpur ,Kampur ,Numaligarh ,Gossaigaon ,Amraghat ,Gharmura ,Dhekiajuli & Dholai= 1 each.

**14.06.17:** Jia Bharali N T Xing ,Puthimari & Guwahati A/P =11 each, Tezpur ,Majbat & Karimganj =9 each, Goibergaon ,Dhekiajuli ,Badatighat 8,Itanagar ,Nalbari & M.C. Itanagar =7 each ,Dhubri(Cwc) ,Tamulpur ,Dhubri ,N/Lakhimpur ,Williamnagar ,Cherrapunji & Motunga= 6 each, Shella ,Dharamtul ,Beki-Mathanguri 5,Chouldhowaghat ,Tirikilla & Hazuwa =4 each , Beki Rd. Bridge ,Kampur ,Drf ,Barpeta ,Numaligarh ,Daporijo ,Passighat ,Neamatighat & Panbari= 3 each, Dhemaaji (Aws/ Isro) ,Borpathar ,Bhalukpong ,Lumding ,Sibsagar ,Dhollabazar ,Basar ,Manas N H Xing ,Shillong ,Kokrajhar & Jorhat =2 each, Maranhat ,Dillighat ,Gharmura ,Aie N H Xing ,B P Ghat ,Chotabekra ,Goalpara(Cwc) ,Khowang ,Nongpho ,Gossaigaon ,Bahalpur ,Matijuri ,Dibrugarh A/P ,Tinsukia ,Golaghat( Cwc) ,A P Ghat ,Naharkatia ,Golaghat ,Miao & Bagafa =1each.

