



**Government of India  
Earth System Science Organization  
Ministry of Earth Sciences  
India Meteorological Department**

**Dated: 14 October, 2021**

**Subject: Current Weather Status and Outlook for next two weeks (14 to 27 October, 2021)**

**Salient Features**

- **Withdrawal of Southwest Monsoon 2021** has commenced towards the end of last week against the normal date of 17th September and has withdrawn from some parts of West Rajasthan and adjoining Gujarat on 6th October, 2021; it further withdrawn from some more parts of Gujarat, most parts of Rajasthan, entire Punjab, Haryana, Chandigarh & Delhi, Jammu Kashmir & Ladakh, Himachal Pradesh and Uttarakhand and some parts of Madhya Pradesh and Uttar Pradesh on 8th; from some more parts of Gujarat and Madhya Pradesh; remaining parts of Rajasthan and Uttar Pradesh and some parts of Chhattisgarh, Jharkhand and Bihar on 9th; from remaining parts of Jharkhand and Bihar; some more parts of Madhya Pradesh and Chhattisgarh and some parts of West Bengal, Odisha and Maharashtra on 11th; from remaining parts of Gujarat & Madhya Pradesh; some more parts of Maharashtra, Chhattisgarh, Odisha and West Bengal; entire North Arabian Sea, Sikkim, Arunachal Pradesh, Meghalaya, Nagaland and Manipur, most parts of Assam and some parts of Telangana, Mizoram and Tripura on 12th and from some more parts of Telangana; remaining parts of Maharashtra; some parts of North Interior Karnataka and some parts of Central Arabian Sea. The withdrawal line now passes through Lat. 27.0°N/Long. 92.0°E, Kohima, Silchar, Krishnanagar, Baripada, Malkangiri, Nalgonda, Bagalkote, Vengurla, Lat. 16.0°N/Long. 65.0°E and Lat. 16.0°N/Long. 60.0°E (**Annexure I**).

- Last week's cyclonic circulation over Tamilnadu coast & neighbourhood moved westwards, emerged into Arabian Sea and lay over Eastcentral Arabian Sea off Karnataka coast extending upto mid tropospheric levels. Under the influence of this system, fairly widespread to widespread rainfall/thunderstorms occurred over parts Peninsular India and over coastal areas of Maharashtra with **isolated heavy/very heavy rainfall over these areas during the week**; isolated extremely heavy rainfall also occurred over coastal areas of Karnataka and over Kerala & Mahe on one day of the week.

### Weekly Rainfall Scenario (07 to 13 October, 2021)

During the week, rainfall for the country as a whole was below Long Period Average (LPA) by 7%. Details are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	18.4	19.7	-7
Northwest India	2.5	7.0	-65
Central India	12.8	15.1	-15
South Peninsula	60.7	34.6	76
East & northeast India	8.6	35.9	-76

The Meteorological sub-division-wise rainfall for the week is given in **Annexure II**.

### Post-monsoon Rainfall Scenario (01 to 13 October, 2021)

For the country as a whole, cumulative rainfall during this year's post-monsoon season till 13 October, 2021 is above LPA by 12%. Details of the rainfall distribution over the four broad geographical regions of India are given below:

Regions	Actual Rainfall (mm)	Normal Rainfall (mm)	% Departure from LPA
Country as a whole	47.4	42.2	12
Northwest India	17.1	13.4	28
Central India	35.1	33.6	4
South Peninsula	103.6	71.0	46
East & northeast India	62.4	80.3	-22

Cumulative seasonal rainfall is given in **Annexure III**.

### Chief synoptic conditions as on 14 October, 2021

- A Low Pressure Area lies over northern parts of Central Bay of Bengal & neighbourhood. It is likely to move west-northwestwards and reach south Odisha-north Andhra Pradesh coasts during next 24 hours.
- The other Low Pressure Area lies over Eastcentral & adjoining Southeast Arabian Sea off Lakshadweep area. It is likely to move east-southeastwards as a Low Pressure Area towards Kerala coast during next 48 hours.
- A Western Disturbance as a cyclonic circulation over Punjab & neighbourhood between 3.1 & 4.5 km above mean sea level.

### Large scale features as on 14 October, 2021

- Currently, cool ENSO neutral conditions are prevailing over equatorial Pacific region. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates borderline La Niña conditions likely to develop during upcoming seasons.
- At present, neutral Indian Ocean Dipole (IOD) conditions are present over Indian Ocean and the latest MMCFS forecast indicates these neutral IOD conditions likely to continue in the upcoming seasons.
- The Madden Julian Oscillation (MJO) index lies in Western Pacific (Phase 6) with amplitude nearly one. As per the latest projections, it is likely to move over Western Hemisphere and Africa (Phase 1) with small amplitude towards end of next one week.

### Forecast for next two week

### Weather systems & associated Precipitation during Week 1 (14 to 20 October, 2021) and Week 2 (21 to 27 October, 2021)

#### **Rainfall for week 1 (14 to 20 October, 2021):**

- A Low Pressure Area lies over Eastcentral & adjoining Southeast Arabian Sea off Lakshadweep area. It is likely to move east-southeastwards as a Low Pressure Area towards Kerala coast during next 48 hours and an east-west trough runs roughly along 13°N across south peninsular India. Under the influence of these systems;

- ✓ Fairly widespread to widespread rainfall with isolated heavy rainfall very likely over Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu during 14<sup>th</sup>-16<sup>th</sup> October, 2021 and decrease in distribution & intensity thereafter. **Isolated heavy to very heavy rainfall** also very likely over Kerala & Mahe and Tamilnadu, Puducherry & Karaikal on 15<sup>th</sup> & 16<sup>th</sup> and over South Interior Karnataka on 16<sup>th</sup> October, 2021.
- ✓ Squally weather (wind speed reaching 40-50 kmph) very likely over Southeast & adjoining Eastcentral Arabian Sea, along & off Kerala-Karnataka coasts & Lakshadweep area during 14<sup>th</sup>-16<sup>th</sup> October. Fishermen are advised not to venture into these areas during 14<sup>th</sup>-16<sup>th</sup> October and those out at Eastcentral & adjoining Southeast Arabian Sea are advised to return to the coast by today evening.
- A Low Pressure Area lies over northern parts of Central Bay of Bengal & neighbourhood. It is likely to move west-northwestwards and reach south Odisha-north Andhra Pradesh coasts during next 24 hours. Under its influence;
  - ✓ Light to moderate rainfall at most places with isolated thunderstorm (wind speed 40-50 kmph) and isolated **heavy falls** very likely over Andaman & Nicobar Islands on 14<sup>th</sup> & 15<sup>th</sup> October and decrease in distribution & intensity thereafter.
  - ✓ Rainfall intensity very likely to increase over Andhra Pradesh, Odisha and West Bengal from 14<sup>th</sup> October. Light to moderate rainfall at many places and **isolated heavy falls** over Gangetic West Bengal on 17<sup>th</sup> & 18<sup>th</sup>, over Odisha on 16<sup>th</sup> & 17<sup>th</sup> and over Coastal Andhra Pradesh & Yanam during 14<sup>th</sup>- 16<sup>th</sup> October, 2021.
  - ✓ Squally weather (wind speed reaching 40-50 kmph) very likely over Central & North Bay of Bengal, Andaman Sea, along & off Odisha coast and adjoining Andhra Pradesh & West Bengal coasts during 14<sup>th</sup>- 16<sup>th</sup> October. Fishermen are advised not to venture into these areas during same period.
- Light to moderate isolated/scattered rainfall activity likely over northeastern states till 18<sup>th</sup> October and increase thereafter with fairly widespread rainfall & isolated heavy falls on 19<sup>th</sup> & 20<sup>th</sup> October, 2021.

- Weather is very likely to be dry over remaining parts of India during most days of the week (**Annexure IV**).
- Overall, rainfall activity is likely to be above normal over all four homogeneous regions of India (**Annexure V**).

#### **Rainfall for week 2 (21 to 27 October, 2021):**

- **Due to easterly wave, light/moderate scattered to fairly widespread rainfall activity is likely over most parts of south Peninsular India and northeastern states.**
- **Due to Western Disturbances, light/moderate isolated to scattered rain/snow is likely over Western Himalayan Region during many days of the week.**
- **Overall rainfall activity is likely to be normal to above normal over the country outside northeast & east India, where it is likely to be below normal (Annexure V).**

#### **Minimum Temperatures for week 1(14 to 20 October, 2021) and week 2(21 to 27 October, 2021)**

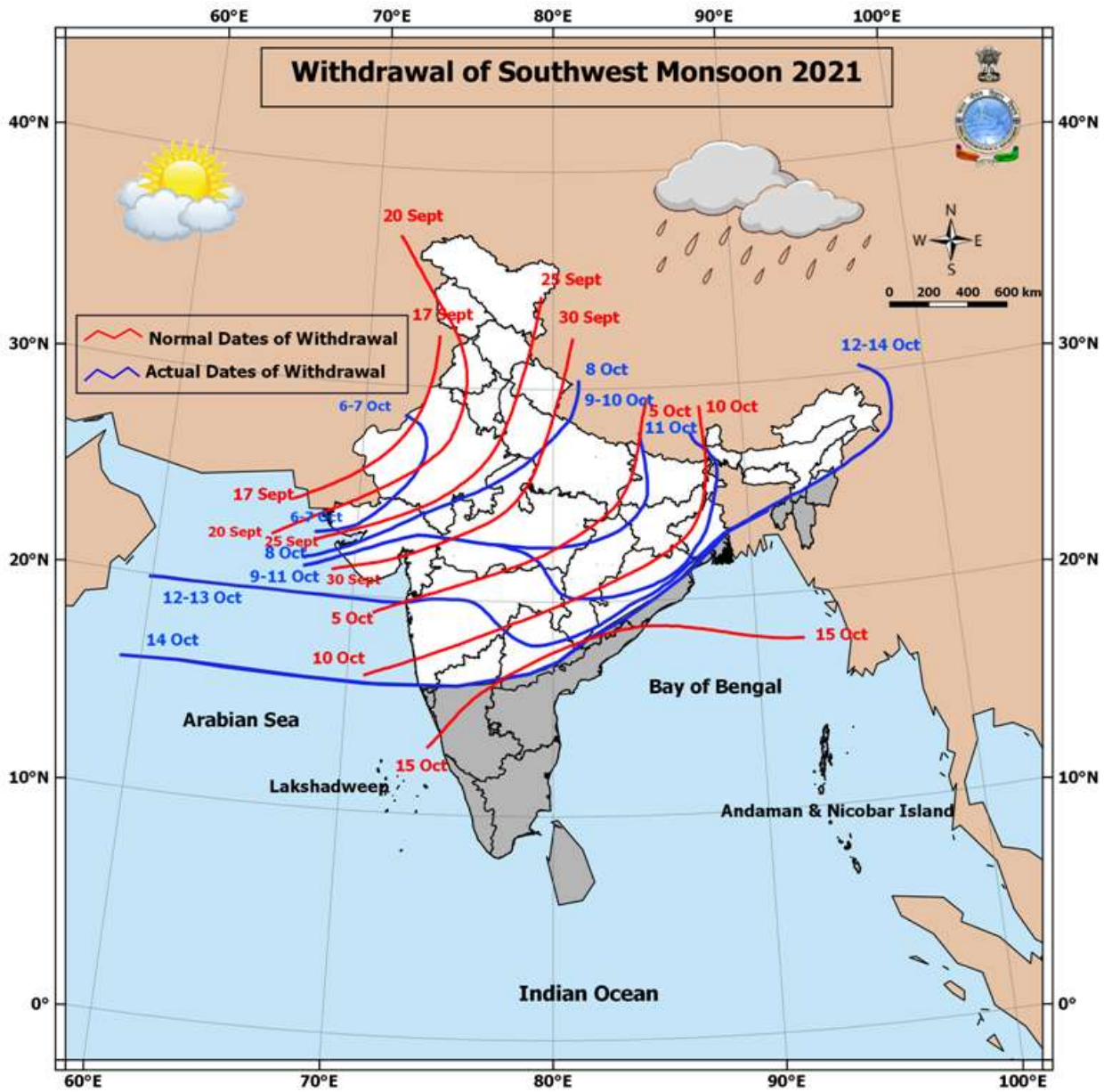
##### **Minimum Temperatures for Week 1(14 to 20 October, 2021):**

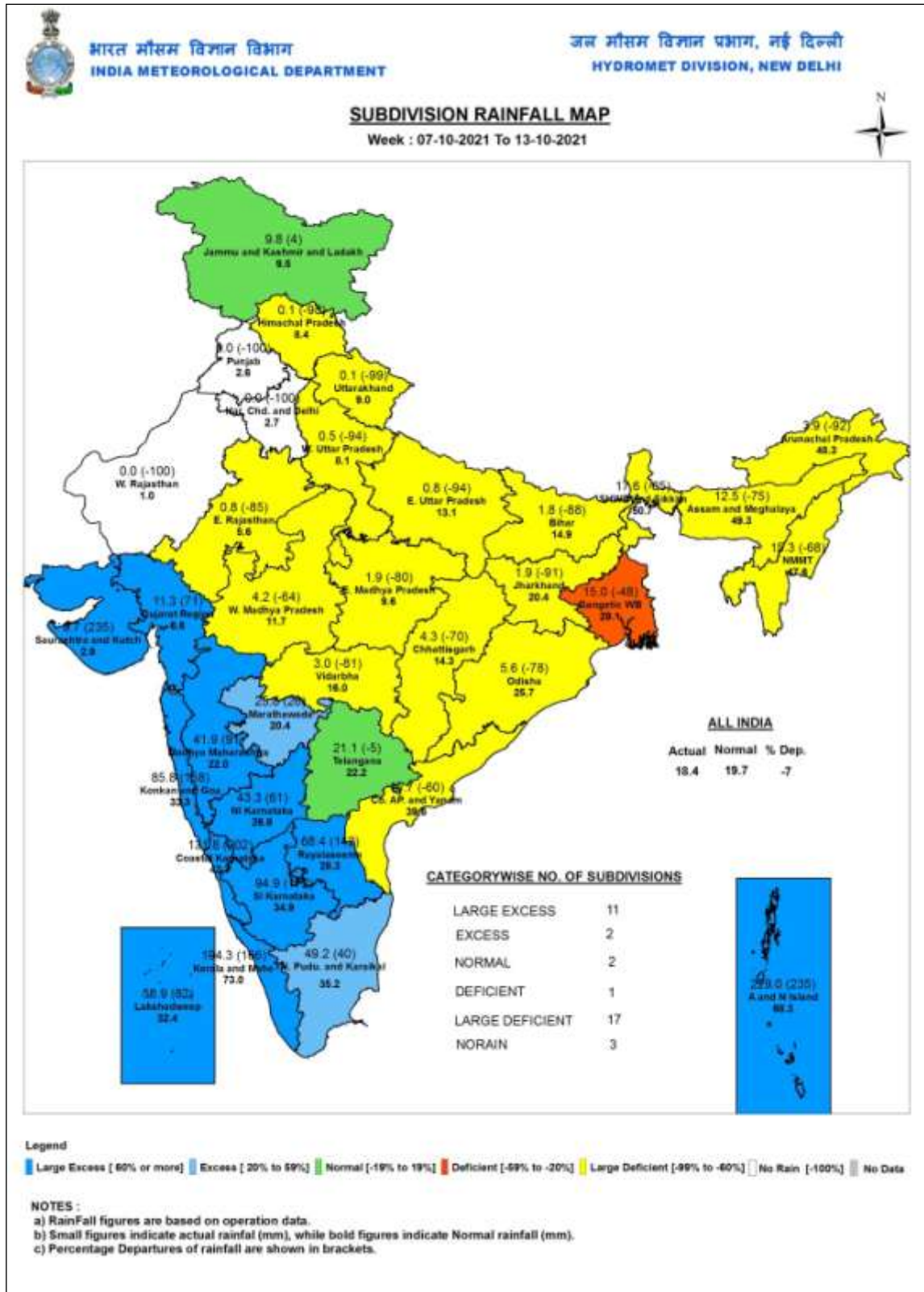
- **There is likely gradual fall in minimum temperatures over northwest & central India during week 1. However these are very likely to be normal to above normal over northwest & adjoining central India.**
- **These are likely to be above normal by 1 to 3<sup>o</sup> C over most parts of northeast, east & adjoining east India and north Peninsular India (Annexure VI).**

##### **Minimum Temperatures for week 2 (21 to 27 October, 2021):**

- **There is likely gradual fall in minimum temperatures over most parts of the country during week 2.**
- **These are likely to be normal to below normal over most parts of the country(Annexure VI).**

**Next weekly update will be issued on next Thursday i.e. 21 October, 2021**





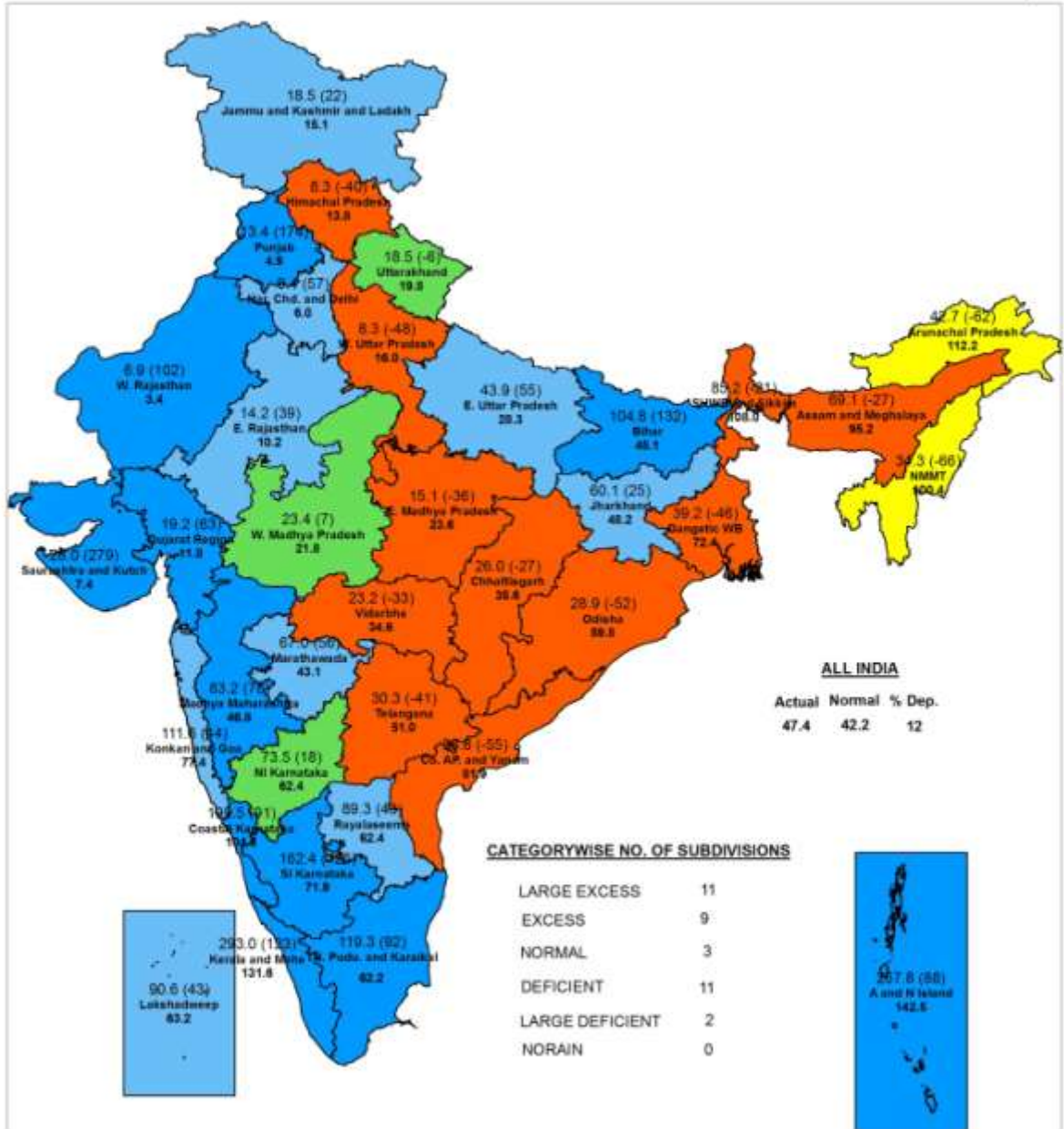


भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

जन मौसम विज्ञान प्रभाग, नई दिल्ली  
HYDROMET DIVISION, NEW DELHI

**SUBDIVISION RAINFALL MAP**

Period : 01-10-2021 To 13-10-2021



**Legend**  
■ Large Excess [ 80% or more] ■ Excess [ 20% to 59%] ■ Normal [-19% to 19%] ■ Deficient [-69% to -20%] ■ Large Deficient [-89% to -60%] ■ No Rain [-100%] ■ No Data

**NOTES :**  
 a) Rainfall figures are based on operation data.  
 b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).  
 c) Percentage Departures of rainfall are shown in brackets.



## Annexure IV

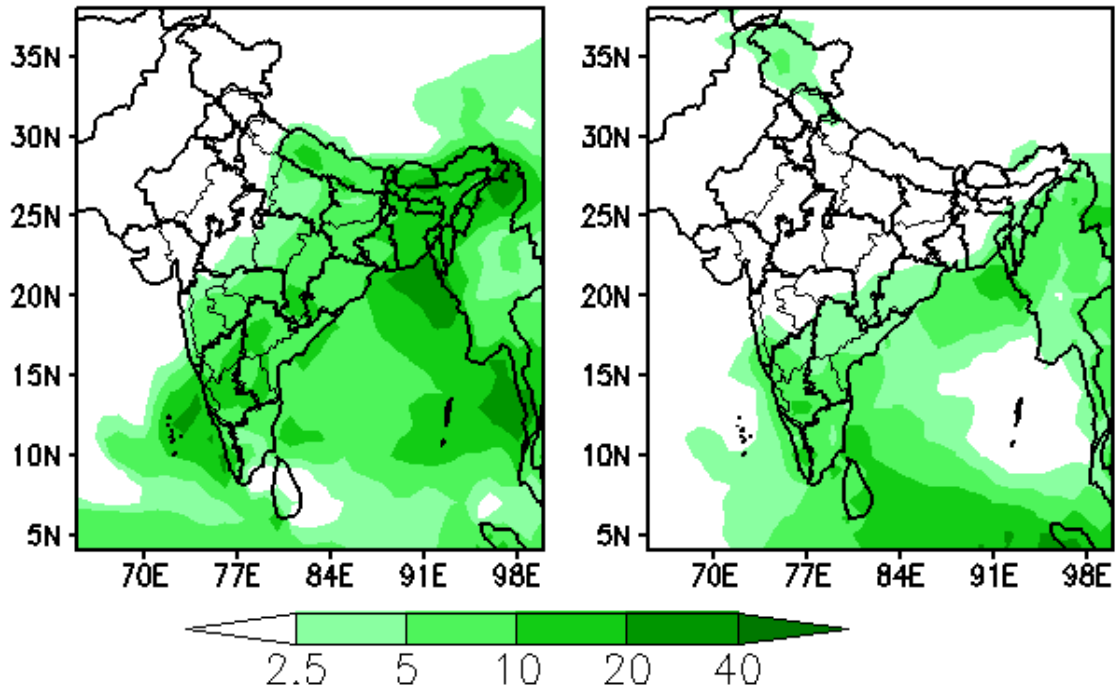
## METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST -2021

Sr. No	MET.SUB-DIVISIONS	14 OCT	15 OCT	16 OCT	17 OCT	18 OCT	19 OCT	20 OCT
1	ANDAMAN & NICO.ISLANDS	WS*	WS*	WS*	WS	SCT	ISOL	ISOL
2	ARUNACHAL PRADESH	ISOL	ISOL	SCT	SCT	SCT	FWS	FWS
3	ASSAM & MEGHALAYA	ISOL	SCT	SCT	SCT	SCT	FWS	FWS*
4	NAGA.MANI.MIZO.& TRIPURA	ISOL	SCT	SCT	SCT	SCT	FWS*	FWS*
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	SCT	FWS	FWS	FWS*	SCT
6	GANGETIC WEST BENGAL	FWS	FWS	FWS	WS*	WS*	FWS	FWS
7	ODISHA	SCT	SCT	FWS*	FWS*	SCT	SCT	SCT
8	JHARKHAND	ISOL	SCT	FWS	FWS	FWS	FWS	FWS
9	BIHAR	ISOL	ISOL	SCT	FWS	WS*	FWS	SCT
10	EAST UTTAR PRADESH	DRY	ISOL	SCT	WS**	WS**	SCT	ISOL
11	WEST UTTAR PRADESH	DRY	DRY	SCT	WS**	WS**	ISOL	DRY
12	UTTARAKHAND	DRY	DRY	FWS	WS**	WS**	ISOL	DRY
13	HARYANA CHD. & DELHI	DRY	DRY	ISOL	SCT	ISOL	DRY	DRY
14	PUNJAB	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
15	HIMACHAL PRADESH	DRY	DRY	SCT	WS**	WS*	DRY	DRY
16	JAMMU & KASHMIR AND LADAKH	DRY	DRY	SCT	FWS	SCT	DRY	DRY
17	WEST RAJASTSAN	DRY	DRY	ISOL	ISOL	DRY	DRY	DRY
18	EAST RAJASTSAN	DRY	DRY	ISOL	ISOL	ISOL	DRY	DRY
19	WEST MADHYA PRADESH	DRY	DRY	ISOL	SCT	SCT	ISOL	DRY
20	EAST MADHYA PRADESH	DRY	ISOL	SCT	FWS	FWS	SCT	ISOL
21	GUJARAT REGION	DRY	DRY	DRY	ISOL	DRY	DRY	DRY
22	SAURASTRA & KUTCH	DRY	DRY	DRY	DRY	DRY	DRY	DRY
23	KONKAN & GOA	ISOL	ISOL	DRY	DRY	DRY	DRY	DRY
24	MADHYA MAHARASHTRA	DRY	DRY	DRY	DRY	DRY	DRY	DRY
25	MARATHAWADA	DRY	DRY	ISOL	SCT	ISOL	ISOL	DRY
26	VIDARBHA	DRY	ISOL	SCT	FWS	SCT	ISOL	DRY
27	CHHATTISGARH	ISOL	ISOL	FWS	FWS	SCT	SCT	ISOL
28	COASTAL ANDHRA PR. & YANAM	SCT*	FWS*	FWS*	FWS	SCT	ISOL	ISOL
29	TELANGANA	ISOL	ISOL	SCT	SCT	ISOL	DRY	DRY
30	RAYALASEEMA	SCT	SCT	SCT	SCT	ISOL	DRY	DRY
31	TAMIL. PUDU. & KARAIKAL	SCT*	FWS**	FWS**	SCT	ISOL	ISOL	SCT
32	COASTAL KARNATAKA	WS*	WS*	WS*	FWS	SCT	ISOL	ISOL
33	NORTH INTERIOR KARNATAKA	ISOL	ISOL	ISOL	ISOL	DRY	DRY	DRY
34	SOUTH INTERIOR KARNATAKA	WS*	WS*	WS**	FWS	SCT	DRY	DRY
35	KERALA & MAHE	WS*	WS**	WS**	FWS	SCT	ISOL	SCT
36	LAKSHADWEEP	WS	WS	WS	FWS	SCT	DRY	DRY
<b>LEGENDS:</b>								
WS - WIDE SPREAD / MOST PLACES (76-100%)				FWS - FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)				
SCT - SCATTERED / FEW PLACES (26% to 50%)				ISOL - ISOLATED (up to 25%)			D / DRY - NO RAINFALL	
* Heavy Rainfall (64.5-115.5 mm)			** Heavy to Very Heavy Rainfall (115.6-204.4 mm)			*** Extremely Heavy Rainfall (204.5 mm or more)		

### Forecast Rainfall (mm/day)

(Week1: 15Oct–21Oct)

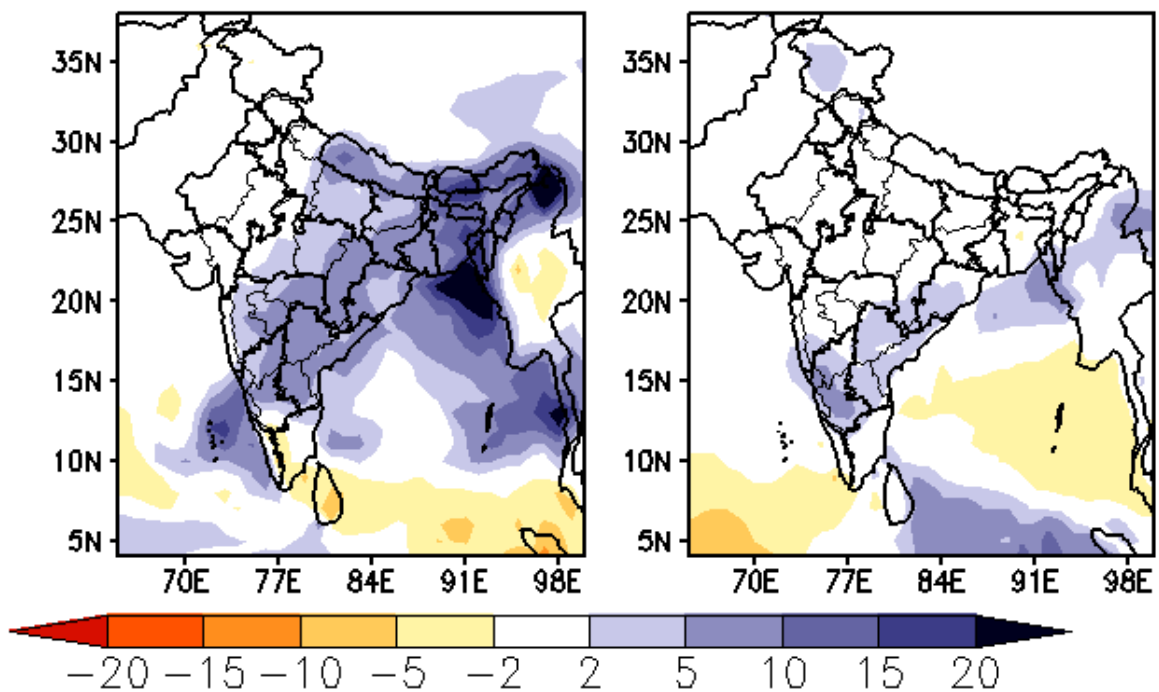
(Week2: 22Oct–28Oct)



### Forecast Rainfall Anomaly (mm/day)

(Week1: 15Oct–21Oct)

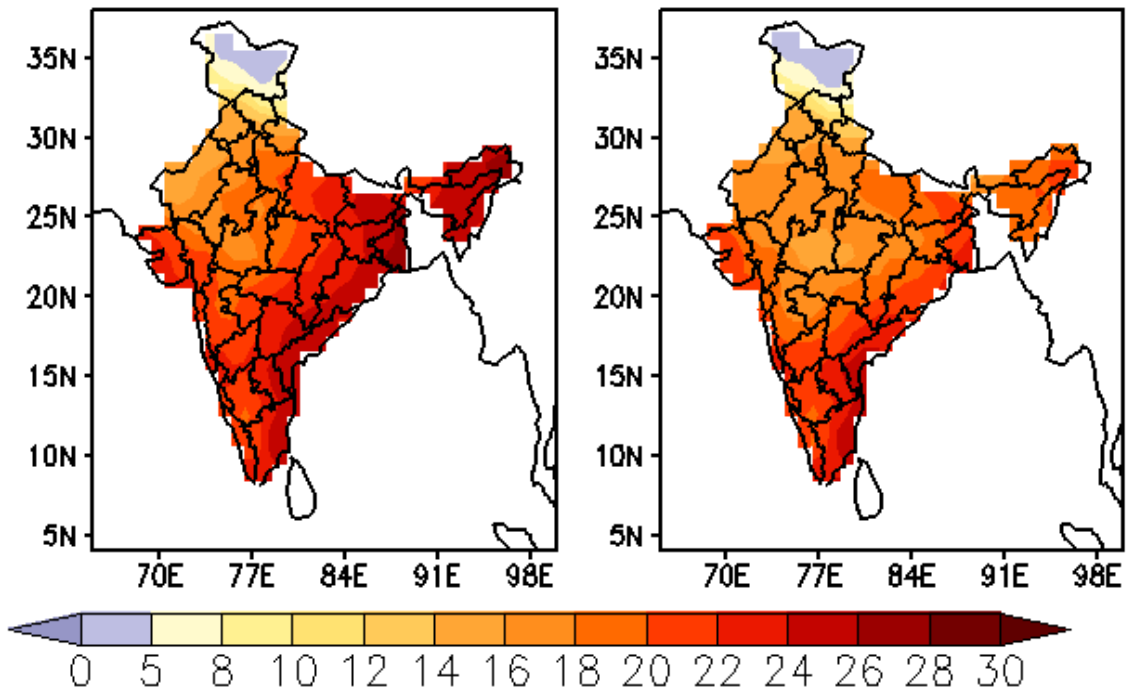
(Week2: 22Oct–28Oct)



### MME Bias corrected forecast Tmin (Deg)

(Week1: 15Oct–21Oct)

(Week2: 22Oct–28Oct)



### MME forecast Tmin anomaly (Deg C)

(Week1: 15Oct–21Oct)

(Week2: 22Oct–28Oct)

