



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

**Dated: 19 November, 2020**

**Current Weather Status and Outlook for next two weeks (19 November to 2 December, 2020)**

**Significant Features of current week ended on 18 November, 2020**

- As predicted, due to an active Western Disturbance, rainfall over northwest India was 220% above Long Period Average (LPA) with large excess rainfall over all the sub-divisions of northwest India except West Rajasthan.
- Northeast monsoon was in active phase over south Peninsula with occurrence of 73% excess rainfall above LPA. Most of the sub-divisions of south Peninsula received excess to large excess rainfall during the week.

**Weekly Rainfall Scenario (12 to 18 November, 2020)**

During the week, rainfall for the country as a whole was excess above LPA by 43%. Details are given below:

<b>Regions</b>	<b>Actual Rainfall (mm)</b>	<b>Normal Rainfall (mm)</b>	<b>% Departure from LPA</b>
<b>Country as a whole</b>	<b>10.0</b>	<b>7.0</b>	<b>43</b>
<b>Northwest India</b>	<b>8.6</b>	<b>2.7</b>	<b>220</b>
<b>Central India</b>	<b>0.5</b>	<b>3.8</b>	<b>-86</b>
<b>South Peninsula</b>	<b>35.6</b>	<b>20.6</b>	<b>73</b>
<b>East &amp; northeast India</b>	<b>1.2</b>	<b>5.1</b>	<b>-76</b>

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

**Seasonal Rainfall Scenario (01 October to 18 November, 2020)**

For the country as a whole, cumulative rainfall during this year's post-monsoon season upto 18 November, 2020 is below LPA by 03%. 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	93.6	96.9	-3
Northwest India	10.6	29.4	-64
Central India	77.6	64.2	21
South Peninsula	219.2	218.6	0
East & northeast India	132.5	146.6	-9%

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

### Weekly minimum Rainfall Scenario (12 to 18 November, 2020)

- The minimum temperatures were below normal by 2-4°C over many parts of northwest India and above normal over northeastern states. These were near normal over remaining parts of the country (**Annexure III**).

### Chief synoptic conditions as on 19 November, 2020

- A low pressure area formed over central parts of south Arabian Sea. It is very likely to move west-northwestwards and concentrate into a Depression over southwest Arabian Sea during next 48 hours.
- A trough runs from the low pressure area to Comorin area at lower levels.
- A cyclonic circulation lies over West Madhya Pradesh at lower levels.
- A Western Disturbance as a cyclonic circulation lies over Jammu & Kashmir and neighbourhood at 3.1 km above mean sea level.
- A fresh Western Disturbance is very likely to affect Western Himalayan region from 22<sup>nd</sup> November, 2020.

### Large scale features as on 19 November, 2020

- Currently, moderate La Niña conditions are prevailing over equatorial Pacific and Sea Surface Temperatures (SSTs) are below normal over central and eastern equatorial Pacific Ocean. The latest Monsoon Mission Climate Forecasting System (MMCFS) forecast indicates that colder than normal SST anomaly is most likely to persist over the Nino 3.4 region and La Niña conditions likely to sustain at least early part of the next year.
- At present, neutral Indian Ocean Dipole (IOD) conditions are observed over Indian Ocean and the latest MMCFS forecast indicates neutral IOD conditions are likely to continue during the coming months.

- The Madden–Julian Oscillation (MJO) at present lies over Phase- 2 with high amplitude (>1). It is very likely to be in same phase with very weak amplitude during next one week.

### Forecast for next two week

### Weather systems & associated Precipitation during Week 1 (19 to 25 November, 2020) and Week 2 (26 November to 2 December, 2020)

#### **Rainfall for week 1: (19 to 25 November, 2020)**

- The low pressure area over central parts of south Arabian Sea is very likely to move west-northwestwards and concentrate into a Depression over Southwest Arabian sea during next 48 hours. However, it is not likely to cause any weather over Indian region.
- A trough runs from the cyclonic circulation associated with low pressure area to Comorin area in lower level. Under its influence, scattered to widespread rainfall accompanied with thunderstorm & lightning is very likely over Kerala & Mahe and Lakshadweep on 19th & 20th and scattered rainfall activity is very likely over south Tamilnadu on today, the 19<sup>th</sup> November and decrease significantly thereafter.
- **The Northeast monsoon rainfall activity very likely to be subdued over south peninsular India during next 4 days.**
- Thereafter, under the influence of a fresh easterly wave fairly widespread to widespread rainfall accompanied with thunderstorm & lightning and **isolated heavy rainfall very likely over Andaman & Nicobar Islands on 21<sup>st</sup> & 22<sup>nd</sup> November**. The wave is very likely to influence south Peninsular India during 2<sup>nd</sup> half of the week with likely **isolated heavy falls over Tamilnadu from 23<sup>rd</sup> to 25<sup>th</sup> November and over Kerala on 24<sup>th</sup> & 25<sup>th</sup> November, 2020 (Annexure IV)**.
- A fresh Western Disturbance very likely affect northwest India during 22-25 November and cause light isolated to scattered rainfall over Western Himalayan Region during the same period (Annexure III).
- **Cumulatively, above normal rainfall very likely over coastal & south Tamilnadu and below normal over rest parts of the south Peninsular India. Rain/snow activity very likely to be near normal over Western Himalayan Region; No rainfall likely over remaining parts of the country (Annexure V).**

#### **Rainfall for week 2: (26 November to 2 December, 2020)**

- **Due to fresh spell of easterly wave above normal rainfall activity with possibility of isolated heavy falls very likely over extreme south Peninsular**

**India; Below normal or no rainfall likely over remaining parts of the country (Annexure V).**

**Minimum Temperature for week 1 & 2: (19 November to 2 December, 2020)**

- The minimum temperatures are below normal by about 2-4°C over most parts of northwest India and above normal by 2-6°C over most parts of central, east & north Peninsular India. These are very likely to fall gradually by 2-4°C over northwest India during first half of the 1<sup>st</sup> week and over Central India by 2-4°C gradually after 24 hours & over East India by 2-3°C after 48 hours during subsequent 3 days.
- **Cold wave conditions likely to occur over isolated pockets of northwest India during second half of the 1<sup>st</sup> week.**
- Overall minimum temperatures are very likely to be below normal by 2-6°C over most parts of the northwest India, by 2- 4°C central, east & north Peninsular India during week 1 (**Annexure VI**).
- These are very likely to be below normal over most parts of the country except parts of south Peninsular India and northeastern states, where there are likely to be normal to above normal (**Annexure VI**).

**Cyclogenesis:**

- There is 'High' probability for the formation of a Depression over southwest Arabian Sea, during the first half of Week-1 and its west-northwestward movement towards north Somalia coast during 22<sup>nd</sup> – 24<sup>th</sup> November, 2020.
- Also there exists a 'low' probability for cyclogenesis over southwest Bay of Bengal during the later part of Week 1 (3) No cyclogenesis likely during Week -2.

**Next weekly update will be issued on next Thursday i.e. 26 November, 2020**

# Annexure I

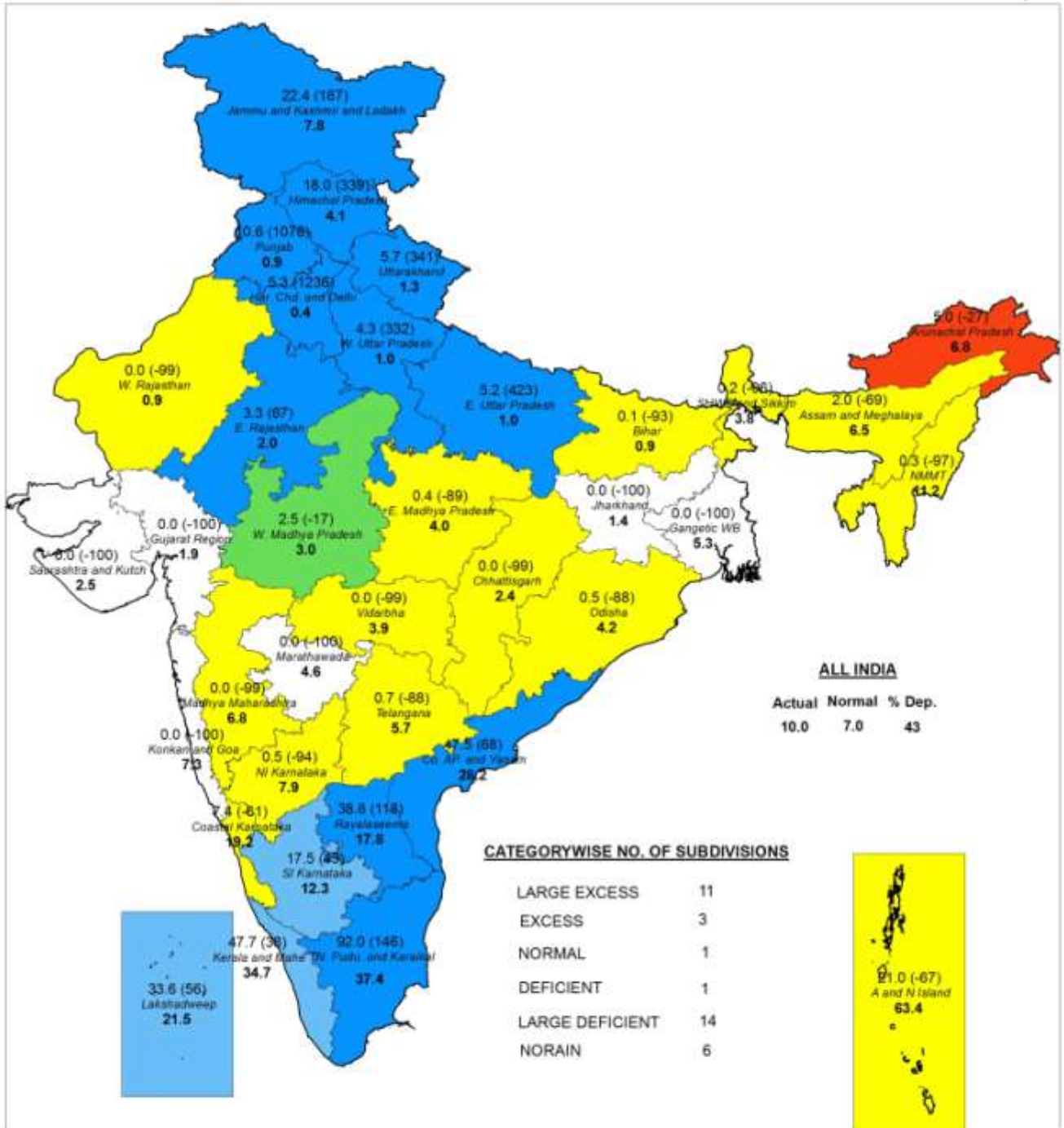


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INDIA METEOROLOGICAL DEPARTMENT

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

## SUBDIVISION RAINFALL MAP

Week : 12-11-2020 To 18-11-2020



### Legend

Large Excess [ 80% or more] Excess [ 20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

### NOTES :

- Rainfall figures are based on operation data.
- Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- Percentage Departures of rainfall are shown in brackets.

# Annexure II

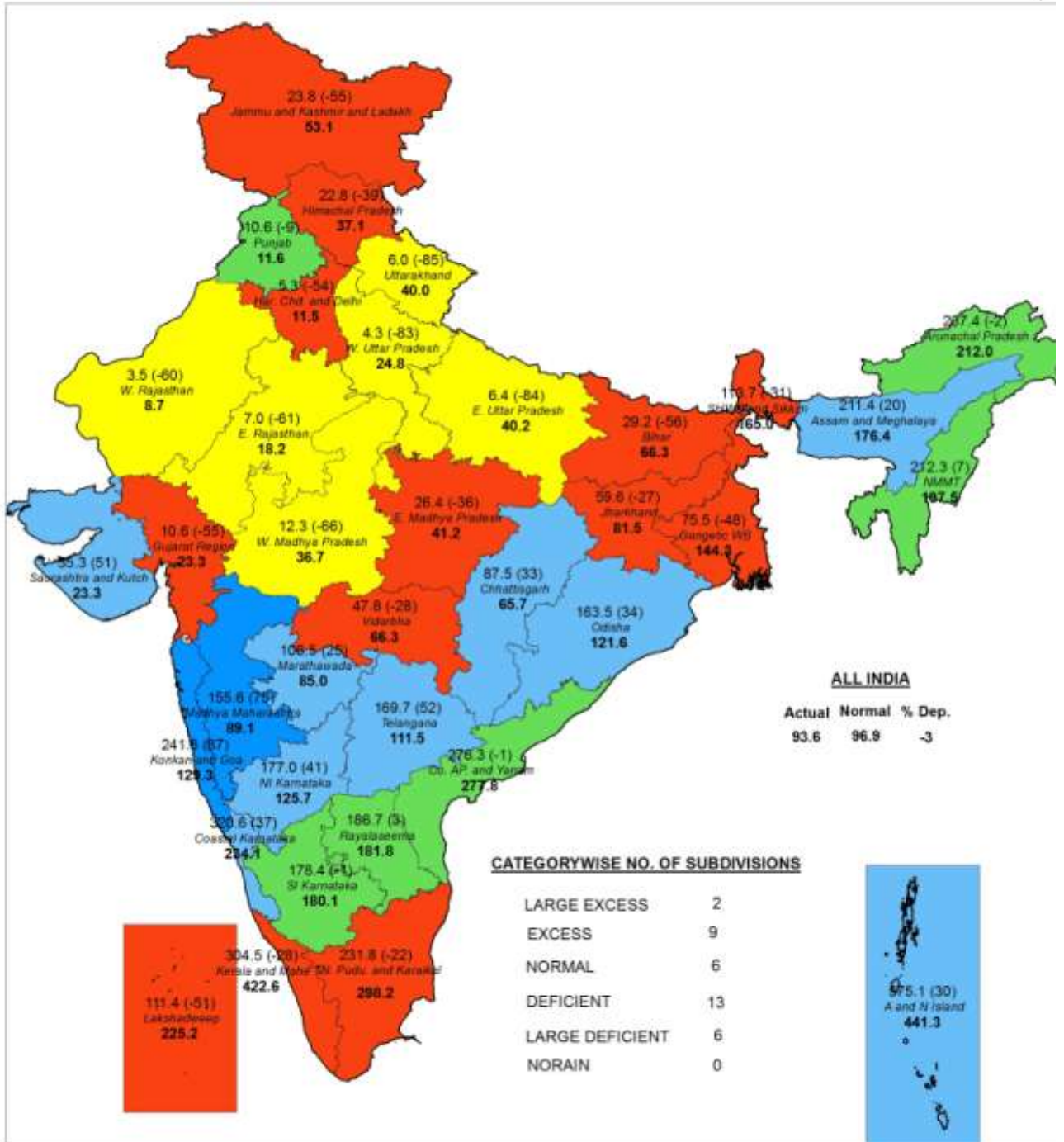


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जल मौसम विज्ञान पभाग, नई दिल्ली  
HYDROMET DIVISION, NEW DELHI

## SUBDIVISION RAINFALL MAP

Period : 01-10-2020 To 18-11-2020



### Legend

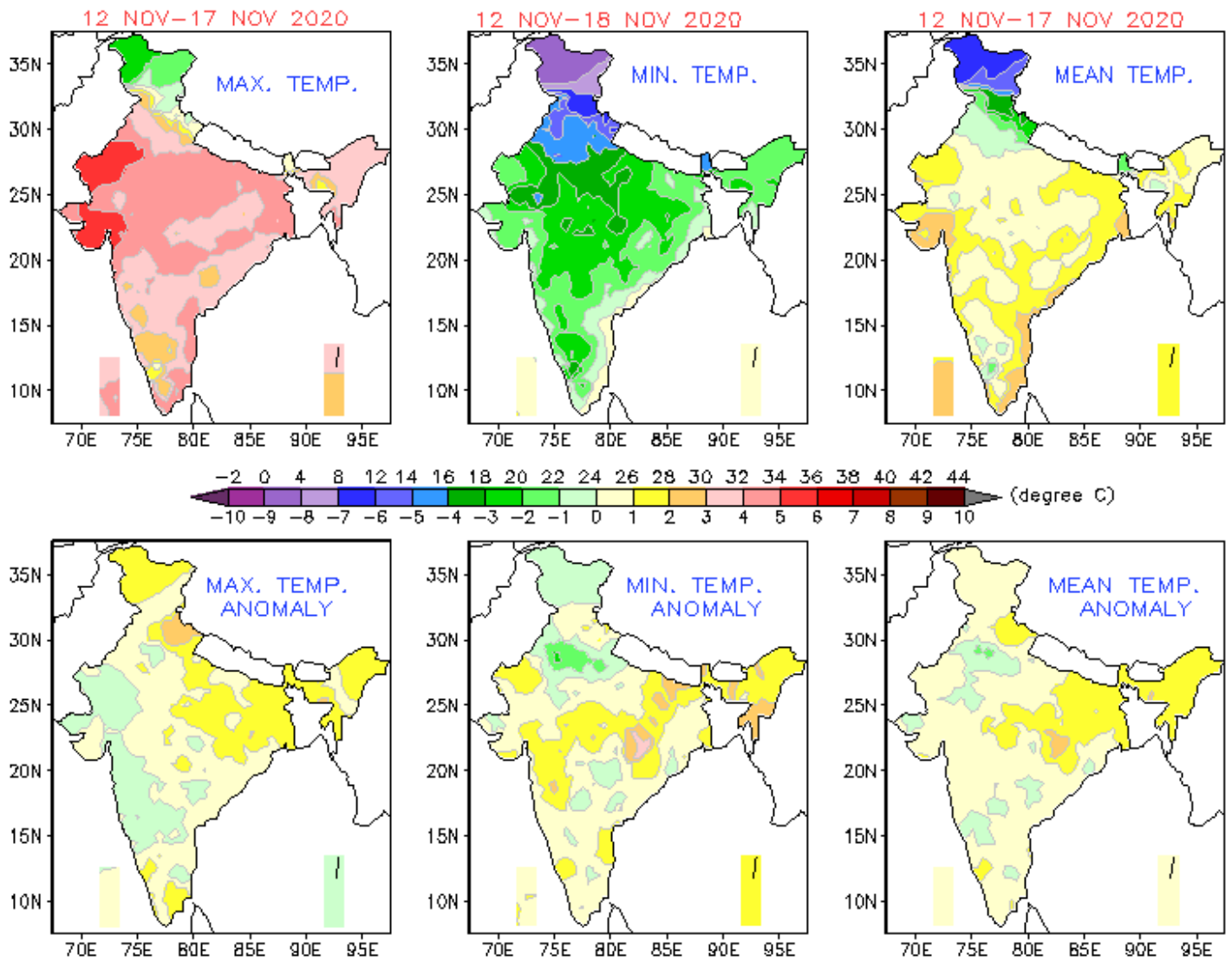
■ Large Excess [ 60% or more] 
 ■ Excess [ 20% to 59%] 
 ■ Normal [-19% to 19%] 
 ■ Deficient [-59% to -20%] 
 ■ Large Deficient [-99% to -60%] 
 ■ No Rain [-100%] 
 ■ No Data

### NOTES :

- Rainfall figures are based on operation data.
- Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- Percentage Departures of rainfall are shown in brackets.

### Annexure III

#### TEMPERATURE FOR WEEK ENDING 18 NOV & ITS ANOMALY



## Annexure IV

## METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST &amp; Wx. WARNINGS-2020

Sr. No	MET.SUB-DIVISIONS	19 NOV	20 NOV	21 NOV	22 NOV	23 NOV	24 NOV	25 NOV
1	ANDAMAN & NICO.ISLANDS	SCT	FWS	WS •	WS •	FWS	FWS	SCT
2	ARUNACHAL PRADESH	SCT	SCT #L	SCT #L	ISOL	D	D	D
3	ASSAM & MEGHALAYA	ISOL	ISOL L	ISOL #L	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	ISOL	ISOL	D	D	D	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	ISOL	ISOL	D	D	D	D
6	GANGETIC WEST BENGAL	ISOL L	ISOL	ISOL	D	D	D	D
7	ODISHA	D	ISOL	ISOL	ISOL	ISOL	D	D
8	JHARKHAND	ISOL L	ISOL	D	D	D	D	D
9	BIHAR	ISOL L	D	D	D	D	D	D
10	EAST UTTAR PRADESH	ISOL	D	D	D	D	D	D
11	WEST UTTAR PRADESH	D	D	D	D	D	D	D
12	UTTARAKHAND	D	D	D	D	ISOL	ISOL	ISOL
13	HARYANA CHD. & DELHI	D	D	D	D	D	D	D
14	PUNJAB	D	D	D	D	D	D	D
15	HIMACHAL PRADESH	ISOL	D	D	ISOL	SCT	SCT	ISOL
16	JAMMU & KASHMIR AND LADAKH	SCT	D	D	ISOL	SCT	FWS	SCT
17	WEST RAJASTSAN	D	D	D	D	D	D	D
18	EAST RAJASTSAN	D	D	D	D	D	D	D
19	WEST MADHYA PRADESH	SCT L	ISOL	D	D	D	D	D
20	EAST MADHYA PRADESH	ISOL	ISOL	D	D	D	D	D
21	GUJARAT REGION	D	D	D	D	D	D	D
22	SAURASTRA & KUTCH	D	D	D	D	D	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	ISOL	ISOL	D	D	D	D	D
25	MARATHAWADA	ISOL	ISOL	D	D	D	D	D
26	VIDARBHA	ISOL	ISOL	D	D	D	D	D
27	CHHATTISGARH	ISOL	ISOL	ISOL	D	D	D	D
28	COASTAL ANDHRA. PR. & YANAM	ISOL	D	D	ISOL	SCT	ISOL	ISOL
29	TELANGANA	D	D	D	D	D	D	D
30	RAYALASEEMA	ISOL	D	D	D	ISOL	ISOL	ISOL
31	TAMIL. PUDU. & KARAIKAL	SCT L	ISOL	ISOL	ISOL	FWS • L	FWS •	FWS •
32	COASTAL KARNATAKA	ISOL	D	D	D	D	D	D
33	NORTH INTERIOR KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INTERIOR KARNATAKA	D	D	D	D	D	ISOL	ISOL
35	KERALA & MAHE	SCT L	ISOL L	ISOL	D	D	SCT	FWS •
36	LAKSHADWEEP	WS L	SCT L	D	D	D	D	FWS

## LEGENDS:

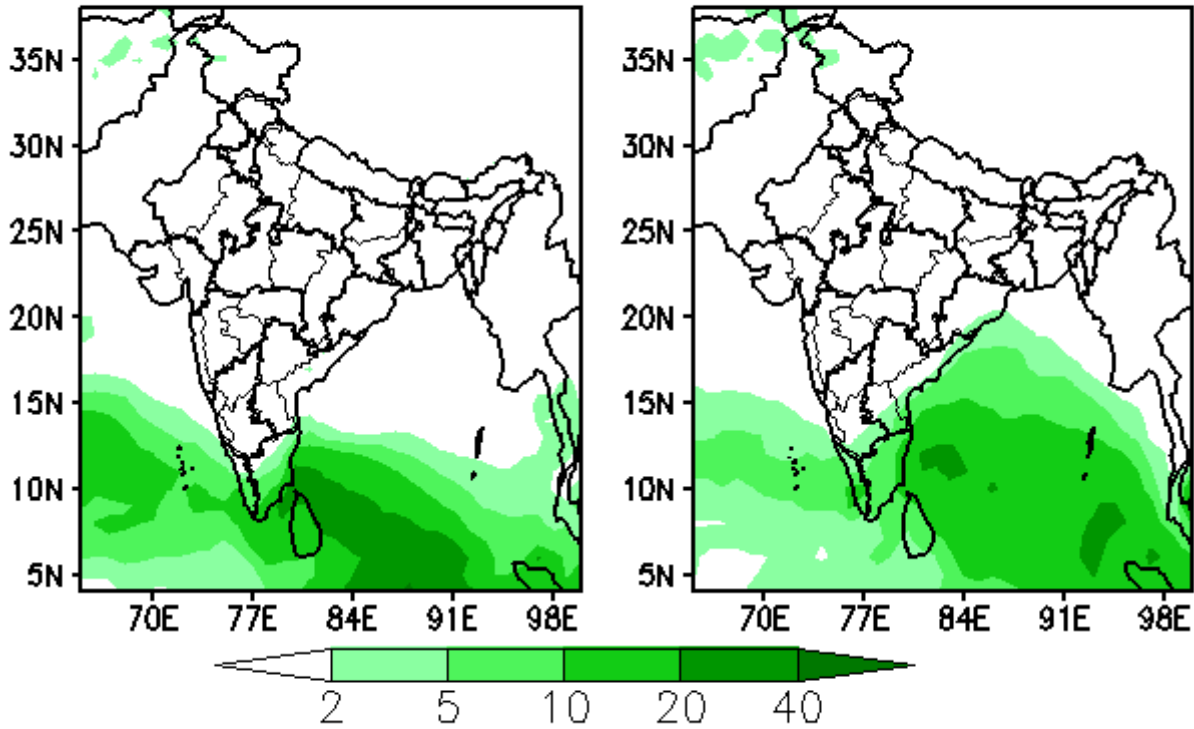
WS - WIDE SPREAD / MOST PLACES (76-100%)			FWS - FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)		
SCT - SCATTERED / FEW PLACES (26% to 50%)			ISOL - ISOLATED (up to 25%)		D / DRY - NO RAINFALL
• Heavy Rainfall (64.5-115.5 mm)		•• Heavy to Very Heavy Rainfall (115.6-204.4 mm)		••• Extremely Heavy Rainfall (204.5 mm or more)	
F Fog	* Snowfall	D Duststorm	S Thunderstorm with Squall	L Thunderstorm with Lightning	# Thunderstorm with Hail
⚡ Cold Wave (Minimum temperature departure from Normal -4.5°C to -6.4°C)			⚡ Severe Cold Wave (Minimum temperature departure from Normal ≤ -6.5°C)		
🔥 Heat Wave (Maximum temperature departure from Normal +4.5°C to +6.4°C)			🔥 Severe Heat Wave (Maximum temperature departure from Normal ≥ +6.5°C)		



### Forecast Rainfall (mm/day)

(Week1: 20Nov-26Nov)

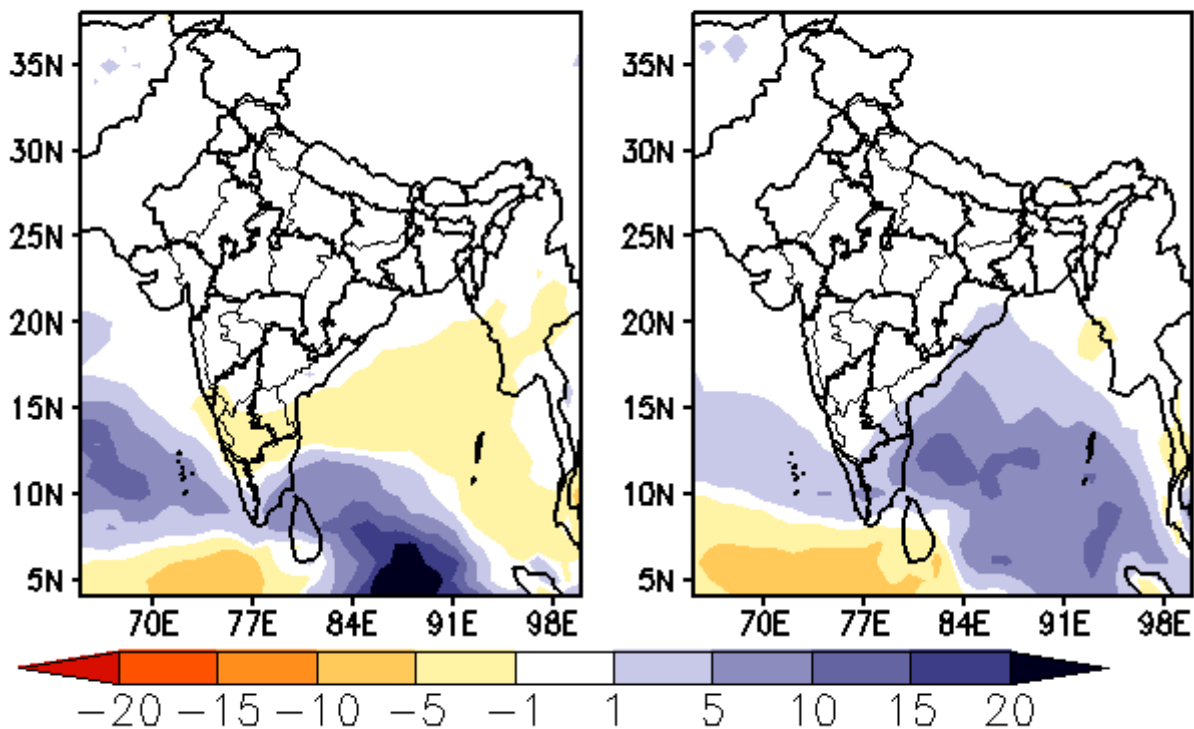
(Week2: 27Nov-03Dec)



### Forecast Rainfall Anomaly (mm/day)

(Week1: 20Nov-26Nov)

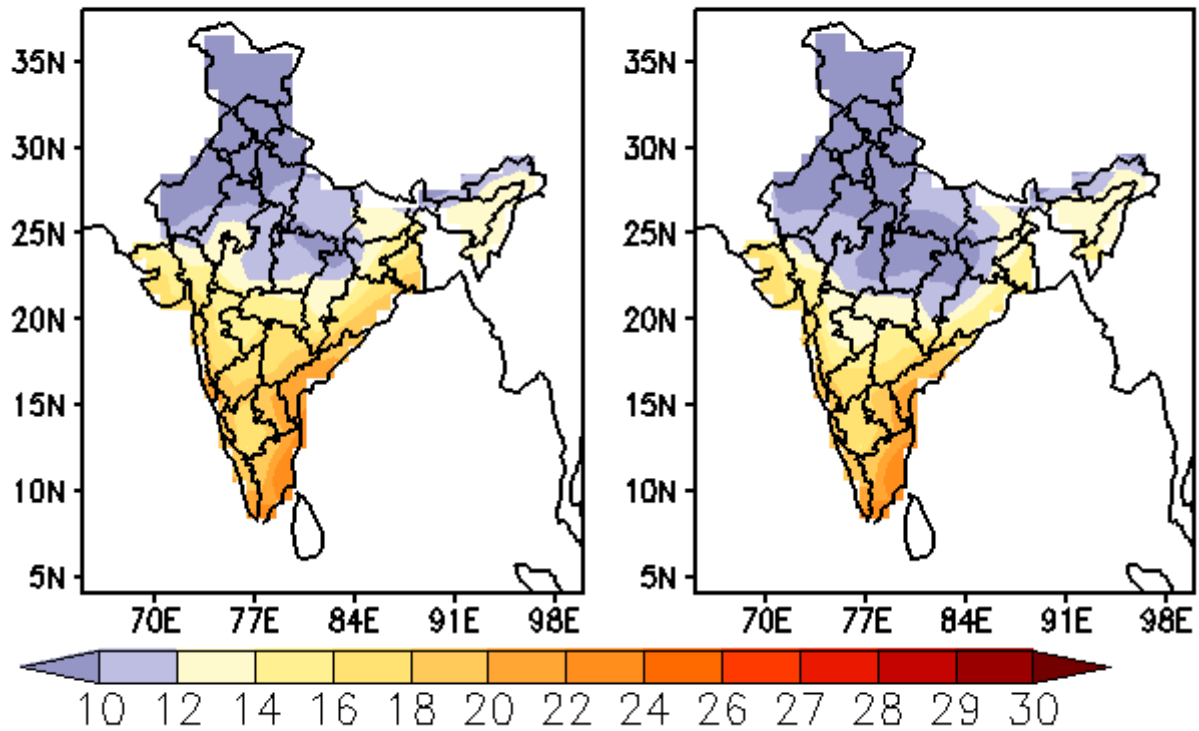
(Week2: 27Nov-03Dec)



**MME Bias corrected forecast Tmin (Deg)**

(Week1: 20Nov-26Nov)

(Week2: 27Nov-03Dec)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 20Nov-26Nov)

(Week2: 27Nov-03Dec)

