



**Government of India  
Ministry of Earth Sciences  
India Meteorological Department**

**Date: 03<sup>rd</sup> April, 2022  
Time of Issue: 1145 hrs IST**

**Subject:**

- i) Heat Wave Spell likely to continue over parts of northwest India during next 5 days and over Gujarat and Madhya Pradesh during next 3 days.**
- ii) Heavy to very heavy rainfall spells over Arunachal Pradesh and Assam-Meghalaya during next 2 days and decrease thereafter.**
- iii) A Low Pressure Area is likely to form over Southeast Bay of Bengal around 07<sup>th</sup> April, 2022.**

**Weather observed during past 24 hours:**

- ✓ **Maximum Temperatures** (as on 02/04/2022) were **41-42°C** in most parts over West Rajasthan, Vidarbha & Marathwada; in isolated pockets over Madhya Maharashtra, Jharkhand, Interior Odisha, Telangana & Saurashtra-Kutch and **40-41°C** in many parts over East Rajasthan, Madhya Pradesh, Haryana, East Uttar Pradesh; in isolated pockets over Gujarat Region, Rayalaseema and Chhattisgarh.
- ✓ The maximum temperatures were **above normal by 6-8°C** at many parts over Jammu division, Himachal Pradesh, West Rajasthan and **by 4-6°C** in many parts over Punjab, Haryana-Delhi and in isolated pockets over East Rajasthan, Madhya Pradesh, West Uttar Pradesh, Gujarat State and Jharkhand.
- ✓ **Heat Wave to Severe Heat Wave conditions** were observed in most pockets of West Rajasthan and in isolated pockets of Himachal Pradesh and Delhi and **Heat Wave conditions** in isolated pockets of East Rajasthan and Jharkhand.
- ✓ **Chief Rainfall amount (in cm): Assam:** Gosaigaon-9, Kokrajhar-5; **Arunachal Pradesh:** Dambuk-7.

**Maximum Temperature and Heat Wave conditions Forecast:**

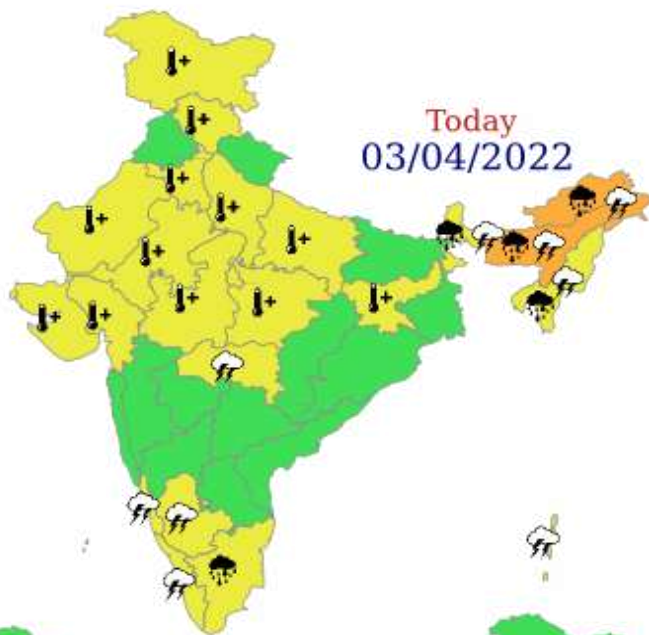
- ✓ No significant change in maximum temperatures very likely over most parts of the country during next 5 days.
- ✓ **Heat Wave conditions** likely to prevail in some parts of Rajasthan; in isolated pockets over south Haryana-Delhi, south Uttar Pradesh during 03<sup>rd</sup>-07<sup>th</sup>; over Madhya Pradesh, Jharkhand & Gujarat state during 03<sup>rd</sup>-05<sup>th</sup>; over Himachal Pradesh on 03<sup>rd</sup> & 04<sup>th</sup>; Jammu division on 03<sup>rd</sup> April. **Isolated severe heat wave conditions** also likely over West Rajasthan on 03<sup>rd</sup> & 04<sup>th</sup> April, 2022.

### Rainfall Forecast & Warnings:

- ✓ Under the influence of strong southwesterly winds from Bay of Bengal to northeastern States at lower tropospheric levels; fairly widespread to widespread rainfall very likely over Arunachal Pradesh, Assam-Meghalaya & Nagaland, Manipur, Mizoram & Tripura during next 3 days and reduction thereafter.
- ✓ **Isolated very heavy rainfall** very likely over Assam & Arunachal Pradesh and **isolated extremely heavy rainfall over Meghalaya on 03<sup>rd</sup> and 04<sup>th</sup> April, 2022. Isolated heavy rainfall** very likely over Nagaland-Manipur on 03<sup>rd</sup> April and over Arunachal Pradesh & Assam-Meghalaya on 05<sup>th</sup> April; over Sub-Himalayan West Bengal-Sikkim on 03<sup>rd</sup> & 04<sup>th</sup> April. **Isolated thunderstorm/lightning** over Assam-Meghalaya, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura on 03<sup>rd</sup> April, 2022.
- ✓ Under the influence of trough over south Peninsular India,
  - Light isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal, Coastal & South Interior Karnataka during next 5 days; over North Interior Karnataka during 05<sup>th</sup>-07<sup>th</sup> and over Coastal Andhra Pradesh during 03<sup>th</sup>- 05<sup>th</sup> April.
  - Isolated **thunderstorm/lightning** activity also very likely over Tamilnadu-Puducherry-Karaikal on 03<sup>rd</sup>; Coastal & South Interior Karnataka on 03<sup>rd</sup>, 05<sup>th</sup> & 06<sup>th</sup> April and over Kerala & Mahe during next 5 days.
  - **Isolated heavy rainfall** very likely over Tamilnadu-Puducherry-Karaikal on 03<sup>rd</sup> April.
- ✓ **An upper air cyclonic circulation likely to form over South Andaman Sea & neighbourhood on 06th April. Under its influence, a Low Pressure Area is likely to form over Southeast Bay of Bengal during subsequent 24 hours. Under its influence:**
  - **Isolated heavy rainfall** likely over Andaman & Nicobar Islands on 05<sup>th</sup> & 06<sup>th</sup> April, 2022.
  - **Squally Weather** (wind speed reaching 40-50 kmph gusting to 60 kmph) likely over Southeast Bay of Bengal & adjoining south Andaman Sea on 05<sup>th</sup> & 06<sup>th</sup> April and (wind speed reaching 45-55 kmph gusting to 65 kmph) over central parts of south Bay of Bengal on 07<sup>th</sup> April, 2022. Fishermen are advised not to venture into this area.

**For more details refer:**

[https://mausam.imd.gov.in/imd\\_latest/contents/subdivisionwise-warning.php](https://mausam.imd.gov.in/imd_latest/contents/subdivisionwise-warning.php)



**EXPECTED IMPACT & ACTION SUGGESTED** due to **very heavy/extremely heavy rainfall** over Arunachal Pradesh and Meghalaya on 03<sup>rd</sup> & 04<sup>th</sup> April, 2022.

### **Impact Expected**

- Localized Flooding of roads, water logging in low lying areas and closure of underpasses mainly in urban areas of the above region.
- Occasional reduction in visibility due to heavy rainfall.
- Disruption of traffic in major cities due to water logging in roads leading to increased travel time.
- Minor damage to kutcha roads.
- Possibilities of damage to vulnerable structure.
- Localized Landslides/Mudslides
- Damage to horticulture and standing crops in some areas due to inundation.
- It may lead to riverine flooding in some river catchments (for riverine flooding please visit Web page of CWC)

### **Action Suggested**

- Check for traffic congestion on your route before leaving for your destination.
- Follow any traffic advisories that are issued in this regard.
- Avoid going to areas that face the water logging problems often.
- Avoid staying in vulnerable structure.

## Legends:

**Heavy Rain:** 64.5 to 115.5 mm; **Very Heavy Rain:** 115.6 to 204.4 mm; **Extremely Heavy Rain:** >204.4 mm.

### Region wise classification of meteorological Sub-Divisions:

- 1) **Northwest India:** Western Himalayan Region (Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh and Uttarakhand); Punjab, Haryana-Chandigarh-Delhi; West Uttar Pradesh, East Uttar Pradesh, West Rajasthan and East Rajasthan.
- 2) **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 3) **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
- 4) **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 5) **West India:** Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra and Marathwada.
- 6) **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

SPATIAL DISTRIBUTION (% of Stations reporting)			
% Stations	Category	% Stations	Category
76-100	Widespread (WS/ Most Places)	26-50	Scattered (SCT/ A Few Places)
51-75	Fairly Widespread (FWS/ Many Places)	1-25	Isolated (ISOL)



Heavy Rain



Strong Winds

### WARNING

WARNING (TAKE ACTION)
ALERT (BE PREPARED)
WATCH (BE UPDATED)
NO WARNING (NO ACTION)

### Probabilistic Forecast

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75



Thunderstorm with Lightning



Heat Wave