



## All India Impact Based Weather Warning Bulletin

**Saturday 08 May 2021**  
**Time of Issue: 1630 hours IST**

**(EVENING)**

**08 May (Day 1):** ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) very likely at isolated places over Odisha; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Himachal Pradesh, Uttarakhand, Madhya Pradesh, Vidarbha, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Madhya Maharashtra, Marathwada, Konkan & Goa and Kerala & Mahe and with **lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, West Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat State, south Coastal Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

♦ **Heavy rainfall** very likely at isolated places over Andaman & Nicobar Islands, Assam & Meghalaya, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal.

**09 May (Day 2):** ♦ **Thunderstorm with lightning, hail & gusty wind** (speed reaching 30-40 kmph) likely at isolated places over East Madhya Pradesh; with **lightning & squall** (speed reaching 50-60 kmph) at isolated places over Assam & Meghalaya; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Jharkhand; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Vidarbha, Chhattisgarh, Bihar, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura, Kerala & Mahe and Lakshadweep and with **lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Rajasthan, West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Gujarat State, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Telangana, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and ghat areas of Tamilnadu.

**10 May (Day 3):** ♦ **Thunderstorm with lightning & gusty wind** (speed reaching 40-50 kmph) very likely at isolated places over Gangetic West Bengal; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, Bihar, Jharkhand, Odisha, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with **lightning** at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Uttar Pradesh, East Rajasthan, East Madhya Pradesh, Vidarbha, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands, Arunachal Pradesh, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Tamil Nadu, Puducherry & Karaikal.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan.

♦ **Heavy to very heavy rainfall** likely at isolated places over Assam & Meghalaya and **heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Nagaland, Manipur, Mizoram & Tripura.

\* Red color warning does not mean "Red Alert" Red color warning means "Take Action".

Forecast and Warning for any day is valid from 0830 hours IST of day till 0830 hours IST of next day

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**11 May (Day 4): ♦ Thunderstorm with lightning, hail & gusty wind** (speed reaching 40-50 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over Bihar and Gangetic West Bengal; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe and with **lightning** at isolated places over East Rajasthan, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Tamilnadu, Puducherry & Karaikal, Karnataka and Lakshadweep.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan.

♦ **Heavy rainfall** likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Coastal & South Interior Karnataka, ghat areas of Tamilnadu and Kerala & Mahe.

**12 May (Day 5): ♦ Thunderstorm with lightning, hail & gusty wind** (speed reaching 40-50 kmph) likely at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand, Himachal Pradesh, Punjab and Haryana, Chandigarh & Delhi; with **lightning & squall** (speed reaching 50-60 kmph) at isolated places over Gangetic West Bengal; with **lightning & gusty wind** (speed reaching 40-50 kmph) at isolated places over West Uttar Pradesh and East Rajasthan; with **lightning & gusty wind** (speed reaching 30-40 kmph) at isolated places over East Uttar Pradesh, West Madhya Pradesh, Bihar, Jharkhand, Coastal Andhra Pradesh & Yanam, Rayalaseema, Telangana, Kerala & Mahe and Lakshadweep and with **lightning** at isolated places over East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Karnataka and Tamilnadu, Puducherry & Karaikal.

♦ **Thunderstorm/Duststorm** (speed reaching 40-50 kmph) very likely at isolated places over West Rajasthan.

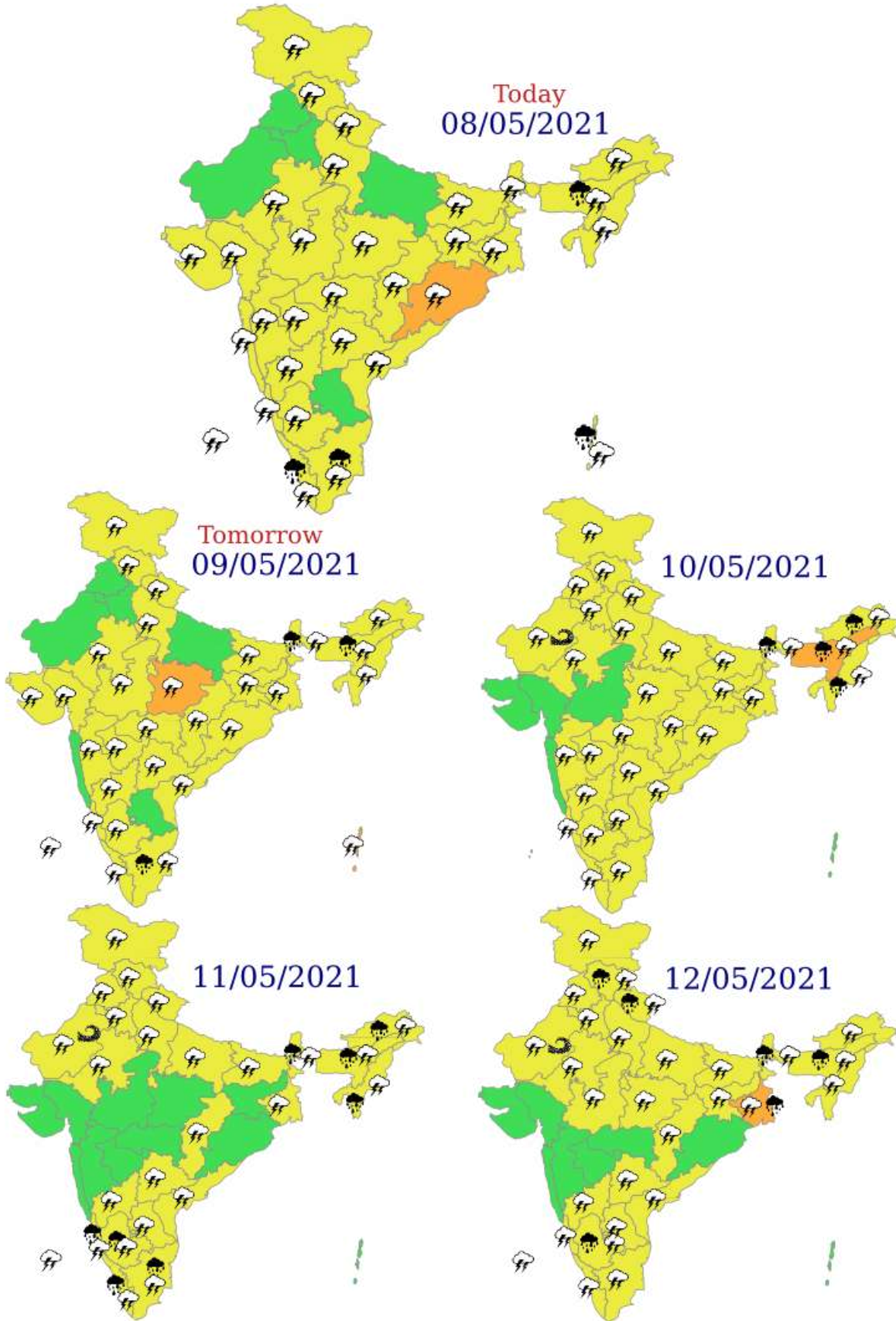
♦ **Heavy rainfall** likely at isolated places over West Bengal & Sikkim, Assam & Meghalaya and South Interior Karnataka.

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**Impact expected and action suggested due to Thunderstorm with lightning/hail/gusty winds over Odisha on 08<sup>th</sup> May and over East Madhya Pradesh 09<sup>th</sup> May; over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh on 11<sup>th</sup> & 12<sup>th</sup> May and over Punjab and Haryana, Chandigarh & Delhi on 12<sup>th</sup> May, 2021.**

**Impact expected:**

- Strong wind/hail may damage plantation, horticulture and standing crops.
- Hail may injure people and cattle at open places.
- Partial damage to vulnerable structures due to strong winds.
- Minor damage to kutcha houses/walls and huts.
- Loose objects may fly.

**Action suggested:**

- Stay indoors, close windows & doors and avoid travel if possible.
- Take safe shelters; do not take shelter under trees.
- Do not lie on concrete floors and do not lean against concrete walls.
- Unplug electrical/ electronic appliances.
- Immediately get out of water bodies.
- Keep away from all the objects that conduct electricity.
- Farming operations may be suspended during the event.

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## LEGENDS

### 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

	<p><b>Rain/ Snow *</b></p> <p>Heavy: 64.5 to 115.5 mm/cm *</p> <p>Very Heavy: 115.6 to 204.4 mm/cm *</p> <p>Extremely Heavy: &gt; 204.4 mm/cm *</p>
	<p><b>Heat Wave</b></p> <p>When maximum temperature of a station reaches <math>\geq 40^{\circ}\text{C}</math> for plains and <math>\geq 30^{\circ}\text{C}</math> for hilly regions</p> <p>(a) Based on Departure from normal</p> <p>Heat Wave: Maximum Temperature Departure from normal <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p>Severe Heat Wave: Maximum Temperature Departure from normal <math>\geq 6.5^{\circ}\text{C}</math></p> <p>(b). Based on Actual maximum temperature</p> <p>Heat Wave: When actual maximum temperature <math>\geq 45^{\circ}\text{C}</math>.</p> <p>Severe Heat Wave: When actual maximum temperature <math>\geq 47^{\circ}\text{C}</math></p> <p>( c). Criteria for heat wave for coastal stations</p> <p>When maximum temperature departure is <math>&gt;4.5^{\circ}\text{C}</math> from normal. Heat Wave may be described provided maximum temperature <math>\geq 37^{\circ}\text{C}</math></p>
	<p><b>Warm Night</b></p> <p>When maximum temperature remains <math>40^{\circ}\text{C}</math></p> <p>Warm Night: When minimum temperature departure <math>4.5^{\circ}\text{C}</math> to <math>6.4^{\circ}\text{C}</math>.</p> <p>Severe Warm Night: When minimum temperature departure <math>&gt;6.4^{\circ}\text{C}</math>.</p>
	<p><b>Cold Wave</b></p> <p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</p> <p>(a). Based on departure</p> <p>Cold Wave: Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p>Severe Cold Wave: Minimum Temperature Departure from normal <math>\geq -6.5^{\circ}\text{C}</math></p> <p>(b) Based on actual Minimum Temperature (for Plains only)</p> <p>Cold Wave : When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math></p> <p>Severe Cold Wave: When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p> <p>( c) For Coastal Stations</p> <p>When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> or actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
	<p><b>Cold Day</b></p> <p>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions</p> <p>Based on departure</p> <p>Cold Day: Maximum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p>Severe Cold Day: Maximum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
	<p><b>Fog</b></p> <p>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></p> <p>Moderate Fog: When the visibility between 500-200 metres</p> <p>Dense Fog: when the visibility between 50- 200 metres</p> <p>Very Dense Fog: when the visibility <math>&lt; 50</math> metres</p>
	<p><b>Thunderstorm</b></p> <p>Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)</p>
	<p><b>Dust/Sand Storm</b></p> <p>An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.</p>
	<p><b>Frost</b></p> <p>Ice deposits on ground</p> <p>Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
	<p><b>Squall</b></p> <p>A strong wind that rises suddenly, lasts for atleast 1 minute.</p> <p>Moderate: Wind speed 52-61 kmph</p> <p>Severe: Wind speed 62-87 kmph</p> <p>Very Severe: Wind speed <math>&gt;87</math> kmph</p>
	<p><b>Sea State</b></p> <p>Effect of various waves in the sea over specific area</p> <p>Rough to very rough: Wind speed 41-62 kmph (22-33 knots) &amp; Wave height 2.5-6 metre</p> <p>High to very high: Wind speed 63-117 kmph ( 34-63 knots) &amp; Wave height 6-14 metre</p> <p>Phenomenal: Wind speed <math>&gt;117</math> kmph (<math>&gt;63</math> knots) &amp; Wave height <math>&gt;14</math> metre</p>
	<p><b>Cyclone</b></p> <p>Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots)</p> <p>Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots)</p> <p>Very Severe Cyclonic Storm: Wind speed 118-165 kmph (64 - 89 knots)</p> <p>Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)</p> <p>Super Cyclone Storm: Wind speed <math>&gt;220</math> kmph (<math>&gt;119</math> knots)</p>

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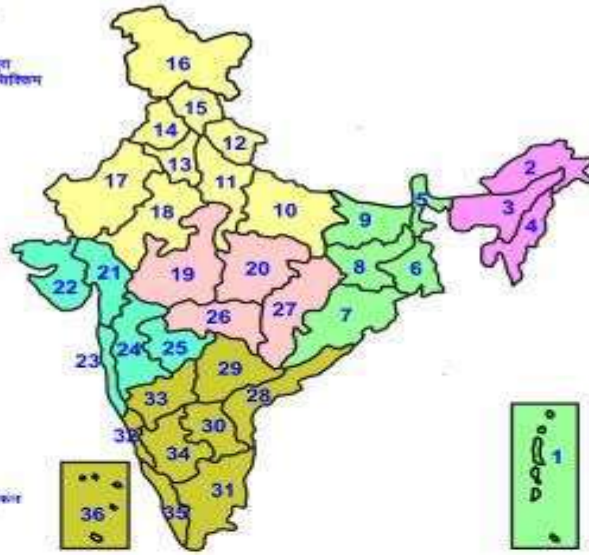
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## LEGENDS

- 1 अंडमान और निकोबार द्वीप समूह
- 2 अरुणाचल प्रदेश
- 3 असम और मेघालय
- 4 नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
- 5 उप हिमालय पश्चिम बंगाल और सिक्किम
- 6 पश्चिम बंगाल
- 7 ओडिसा
- 8 झारखंड
- 9 बिहार
- 10 पूर्वी उत्तर प्रदेश
- 11 पश्चिम उत्तर प्रदेश
- 12 उत्तराखंड
- 13 हरियाणा, चंडीगढ़, दिल्ली, पंजाब
- 14 पंजाब
- 15 हिमाचल प्रदेश
- 16 जम्मू एवं कश्मीर एवं लद्दाख
- 17 पश्चिम राजस्थान
- 18 पूर्वी राजस्थान
- 19 पश्चिम मध्य प्रदेश
- 20 पूर्वी मध्य प्रदेश
- 21 गुजरात
- 22 सौराष्ट्र
- 23 कर्नाटक & गोवा
- 24 मध्य महाराष्ट्र
- 25 महाराष्ट्र
- 26 विहारभा
- 27 छत्तीसगढ़
- 28 Coastal Andhra Pradesh & Yanam
- 29 तेलंगाना
- 30 कर्नाटक
- 31 तमिलनाडु, पुदुचेरी एवं केरल
- 32 उत्तर कर्नाटक
- 33 उत्तर कर्नाटक
- 34 दक्षिण कर्नाटक
- 35 केरल एवं माहे
- 36 लक्षद्वीप



1. Andaman & Nicobar Islands
2. Arunachal Pradesh
3. Assam & Meghalaya
4. Nagaland, Manipur, Mizoram & Tripura
5. Sub-Himalayan West Bengal & Sikkim
6. Gangetic West Bengal
7. Orissa
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chd & Delhi
14. Punjab
15. Himachal Pradesh
16. Jammu & Kashmir and Ladakh
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra
23. Karan & Goa
24. Madhya Maharashtra
25. Maharashtra
26. Vidharbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karakal
32. Coastal Karnataka
33. North Interior Karnataka
34. South Interior Karnataka
35. Kerala & Mahe
36. 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)

### WARNING

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### Probabilistic Forecast

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

Heavy Rain	Heavy Snow	Thunderstorm	Dust Storm
Strong Winds	Visibility	Cyclone	Squall/ Hail
Frost	Cold Wave	Heat Wave	Sea State

Kindly download **MAUSAM** APP for location specific forecast & warning, **MEGHDOOT** APP for Agromet advisory and **DAMINI** APP for Lightning Warning & visit state MC/RMC websites for district wise warning

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