



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 19th August 2026

Time of Issue: 1400 hours IST

Subject: (i) Under the influence of Depression over north Jharkhand and adjoining southwest Bihar & southeast Uttar Pradesh; Isolated heavy to very heavy rainfall also likely over East Uttar Pradesh, Madhya Pradesh and heavy rainfall over Bihar and Jharkhand with Isolated extremely heavy rainfall over East Madhya Pradesh on 19th August, 2026.

(ii) Isolated heavy to very heavy rainfall also likely over Western Himalayan Region on today, the 19th July, 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 19th August, 2026:

- ❖ **Extremely heavy rainfall (≥ 21 cm)** has been recorded over Chhattisgarh
- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over Himachal Pradesh, Jharkhand, East Uttar Pradesh and East Madhya Pradesh
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Uttarakhand, Madhya Maharashtra, Bihar, Jammu-Kashmir and Assam.

Weather Systems, Forecast and Warnings (Annexure I & II):

- ❖ The western end of **monsoon trough** at mean sea level is north of its normal position and eastern end is near its normal position.
- ❖ Yesterday's **Depression** over north Jharkhand & adjoining southwest Bihar moved west-northwestwards and lay centred at 0830 hrs IST of today, the 19th August, 2026 over north Jharkhand and adjoining southwest Bihar & southeast Uttar Pradesh. It is very likely to continue to move west-northwestwards across Jharkhand, southeast Uttar Pradesh & north Chhattisgarh and weaken into a well-marked low-pressure area during next 12 hours.
- ❖ A **trough** runs from Central parts of North Uttar Pradesh to the cyclonic circulation associated with the depression over north Jharkhand and adjoining southwest Bihar & southeast Uttar Pradesh in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Punjab & neighbourhood persists and now seen at 5.8 km above mean sea level with a trough aloft at its axis at 7.6 km above mean sea level runs roughly along Long. 72°E to the north of Lat. 30°N.
- ❖ An **upper air cyclonic circulation** lies over Northeast Rajasthan & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Central Assam & neighbourhood in lower tropospheric level.

Under the influence of above systems, the following weather is likely:

Northwest India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-22nd August; Uttarakhand during 19th-25th August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over West Uttar Pradesh during 19th-20th August and on 23rd August; East Uttar Pradesh during 22nd-25th August.
- ❖ **Isolated to Scattered** rainfall likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 23rd-25th August.
- ❖ **Isolated to Scattered** rainfall likely over rest of northwest India.
- ❖ Isolated **thunderstorm & lightning** likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 19th-23rd August; Uttarakhand during 19th-25th August.
- ❖ Isolated **heavy rainfall** likely over Himachal Pradesh and Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during 20th-21st August; Uttarakhand during 20th-25th August; Haryana Chandigarh & Delhi and Punjab on 19th August; West Uttar Pradesh on 21st August; East Uttar Pradesh during 20th-22nd August with isolated **very heavy rainfall** also likely over East Uttar Pradesh, Himachal Pradesh, Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Uttarakhand on 19th August; West Uttar Pradesh during 19th-20th August.

Central India:

- ❖ **Isolated to Scattered** rainfall likely over West Madhya Pradesh on 19th August and during 24th-25th August; Vidarbha during 20th-22nd August and during 24th-25th August; Chhattisgarh during 21st-22nd August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over West Madhya Pradesh during 20th-23rd August; East Madhya Pradesh during 19th-25th August; Vidarbha on 19th August and on 23rd August; Chhattisgarh during 19th-20th August and during 23rd-25th August.
- ❖ Isolated **thunderstorm & lightning** likely over Chhattisgarh during 19th-23rd August.
- ❖ Isolated **heavy rainfall** likely over West Madhya Pradesh on 19th & during 20th-21st August and during 23rd-24th August; East Madhya Pradesh during 23rd-25th August with isolated **very heavy rainfall** also likely over East Madhya Pradesh during 19th-22nd August; West Madhya Pradesh on 22nd August; Chhattisgarh during 19th-21st August.
- ❖ **Isolated extremely heavy rainfall over East Madhya Pradesh on 19th August.**

East India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Andaman & Nicobar Islands, Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 19th-25th August; Jharkhand on 19th August and during 22nd-25th August; Bihar during 21st-23rd August; Odisha during 21st-25th August.
- ❖ **Isolated to Scattered** rainfall likely over Jharkhand during 20th-21st August; Bihar during 19th-20th August and during 24th-25th August; Odisha during 19th-20th August.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Andaman & Nicobar Islands during 19th-25th August, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Gangetic West Bengal and Sub-Himalayan West Bengal & Sikkim during 19th-21st August; Jharkhand during 19th-23rd August; Bihar during 19th-25th August; Odisha during 21st-23rd August.
- ❖ Isolated **heavy rainfall** likely over Sub-Himalayan West Bengal & Sikkim during 19th-21st August and during 24th-25th August; Gangetic West Bengal during 23rd-24th August; Jharkhand on 19th August; Bihar on 19th August and during 21st-23rd August; Odisha during 21st-25th August.
- ❖ **Moderate to severe lightning activity likely over Bihar on 22nd August.**

Northeast India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh during 19th-22nd August; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 19th-22nd August and on 25th August.
- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh during 23rd-25th August; Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 23rd-24th August.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 19th-22nd August.
- ❖ Isolated **heavy rainfall** likely over Arunachal Pradesh and Assam & Meghalaya during 19th-25th August; Nagaland, Manipur, Mizoram & Tripura during 19th-24th August.

West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa during 19th-25th August; Madhya Maharashtra during 19th-20th August; Marathawada on 20th August.
- ❖ **Isolated to Scattered** rainfall likely over Madhya Maharashtra during 21st-25th August; Marathawada on 19th August and during 21st-25th August; Gujarat Region and Saurashtra & Kutch during 19th-25th August.
- ❖ Isolated **thunderstorm & lightning** likely over Madhya Maharashtra and Marathawada during 19th-20th August.

South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Coastal Andhra Pradesh & Yanam, North Interior Karnataka, Rayalaseema, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 19th-25th August; Kerala & Mahe and Lakshadweep during 21st-22nd August.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 19th-20th August and during 23rd-25th August; Coastal Karnataka during 19th-25th August.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over North Interior Karnataka during 19th-20th August; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-23rd August, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka, Kerala & Mahe, South Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Telangana during 19th-20th August.
- ❖ Isolated **heavy rainfall** likely over Coastal Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal on 19th August.
- ❖ Strong Surface Winds likely over Coastal Karnataka, North Interior Karnataka and South Interior Karnataka during 19th-20th August; Coastal Andhra Pradesh & Yanam and Rayalaseema during 19th-23rd August.

Fishermen Warning

- ❖ Arabian Sea: Along and off Somalia and Oman coast, most parts of westcentral Arabian Sea and some parts of southwest adjoining few parts of eastcentral Arabian Sea till 24rd August, over some parts of northwest adjoining few parts of northeast during 19th to 22nd August, over few parts of northwest Arabian sea during 22nd to 24th August.
- ❖ Bay of Bengal: over few parts Gulf of Mannar adjoining Comorin area and southwest Bay of Bengal adjoining south Sri Lanka Coast till 24rd August; and over Andaman Sea till 23rd August.

Weather conditions and forecast over Delhi/NCR during next 4 days (Annexure III)

For more details, kindly refer National Weather Bulletin:

https://mausam.imd.gov.in/responsive/all_india_forecast_bulletin.php

For District wise warnings refer: <https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

For Fishermen warning refer <https://rsmcnewdelhi.imd.gov.in/fishermenwarning.php>

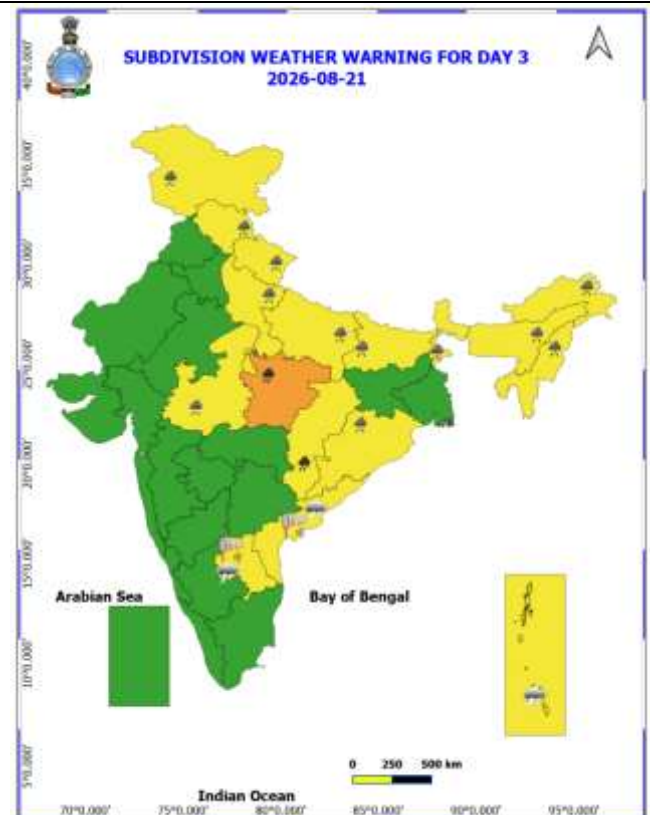
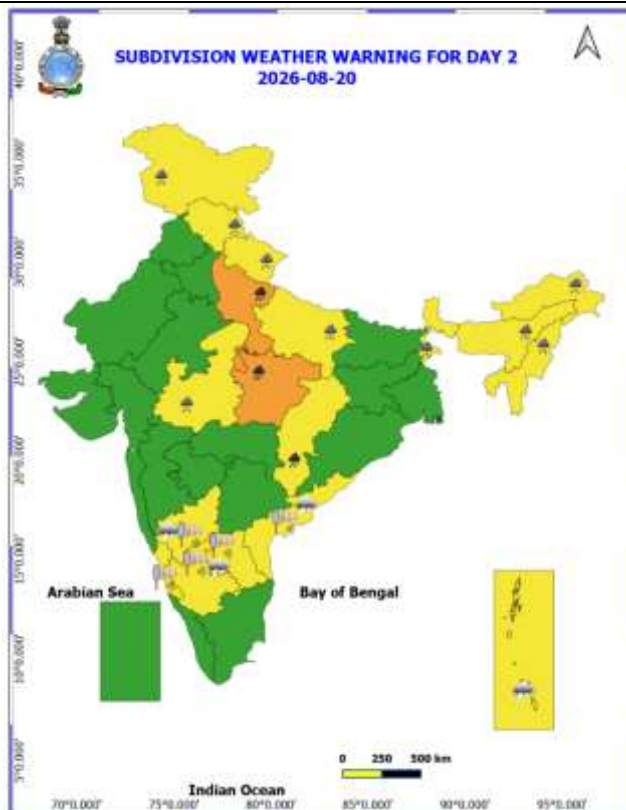
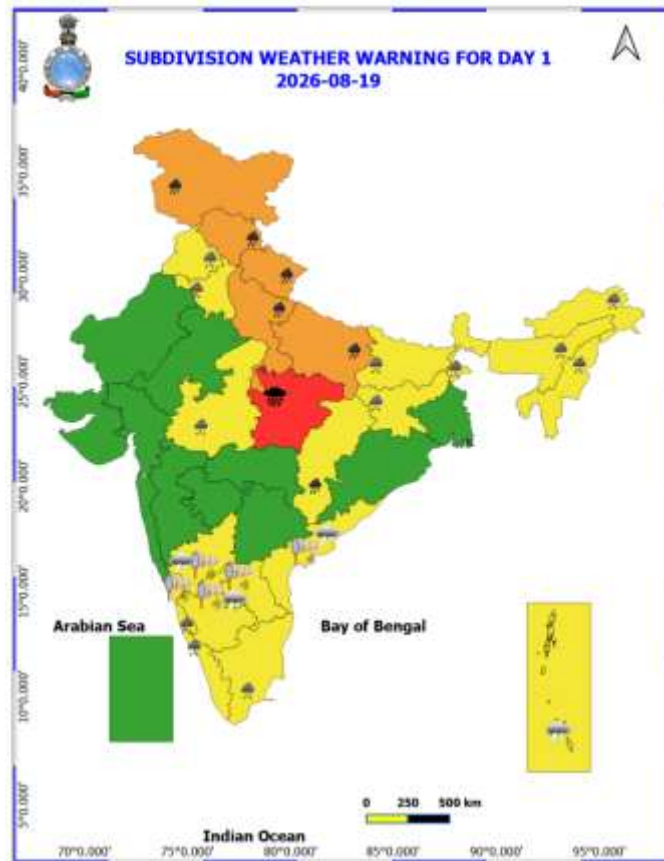
For national bulletin associated with the Depression refer https://rsmcnewdelhi.imd.gov.in/national_bulletin.php

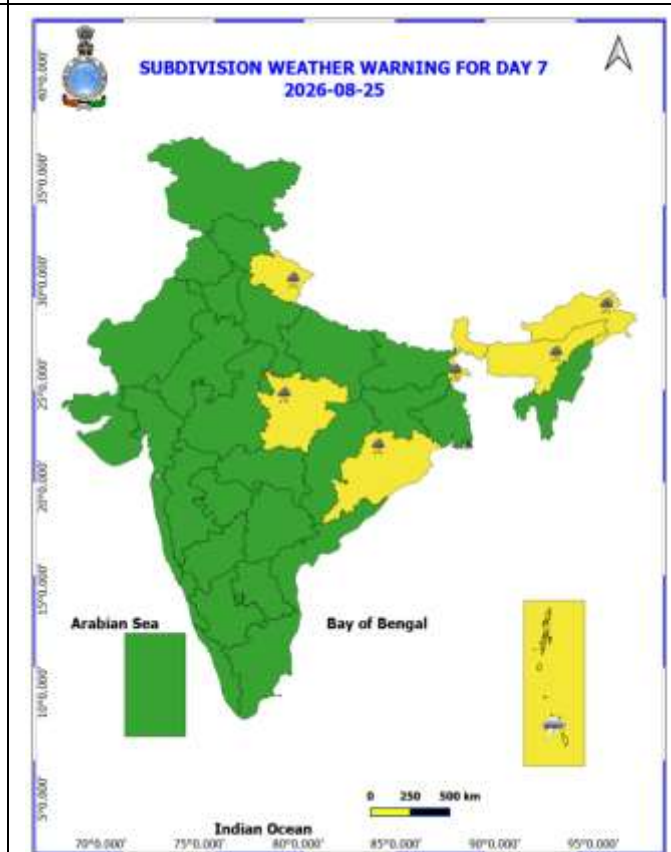
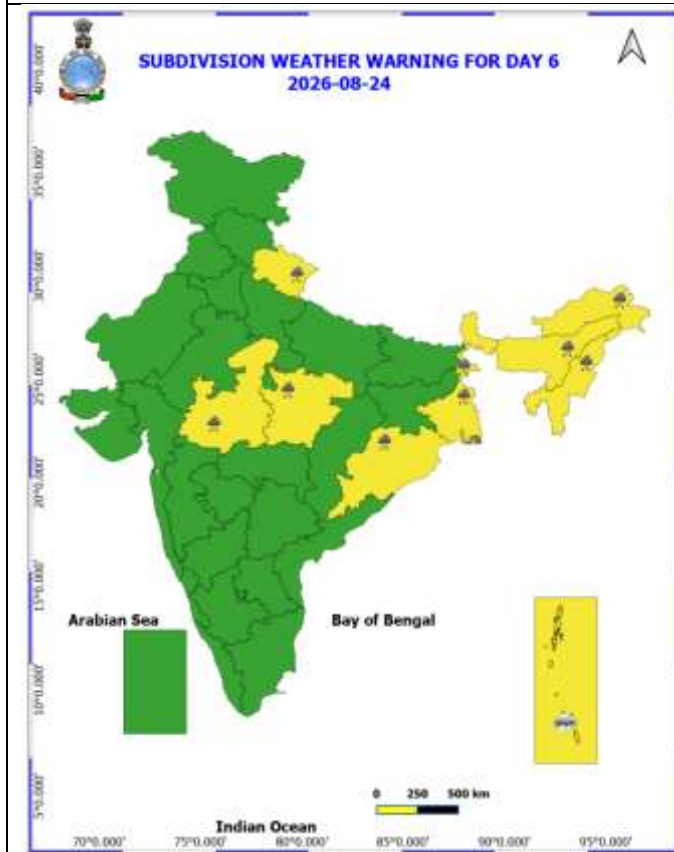
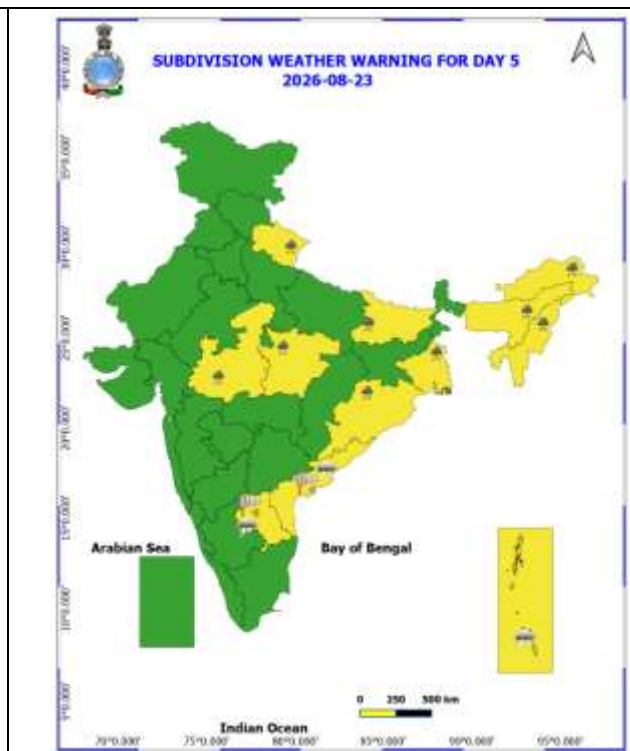
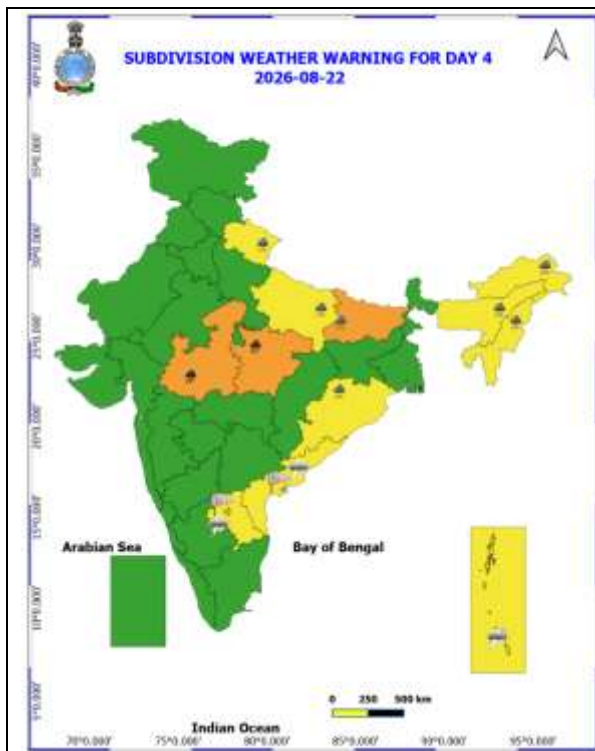
Highest rainfall recorded (> 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

- ❖ **Chhattisgarh:** Balrampur 29
- ❖ **Himachal Pradesh:** Sujanpur Tira 16
- ❖ **Jharkhand:** Chandwa DVC(Latehar) 16
- ❖ **East Uttar Pradesh:** Pratapgarh 13
- ❖ **East Madhya Pradesh:** Devser (Singrauli) 13
- ❖ **Jammu-Kashmir:** Jammu 9, Kathua 8
- ❖ **Uttarakhand:** Kalsi(AWS) 8, Kotdwara 8
- ❖ **Bihar:** Hilsa (Nalanda) 8
- ❖ **Madhya Maharashtra:** Mahabaleshwar (Satara) 7
- ❖ **Assam:** Laharighat 10.

Table-1								
7 Days Rainfall Forecast								
S.No.	Subdivision	19- Aug	20- Aug	21- Aug	22- Aug	23- Aug	24- Aug	25- Aug
		Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	ANDAMAN & NICOBAR ISLANDS	FWS	FWS	FWS	FWS	FWS	FWS	FWS
2	ARUNACHAL PRADESH	FWS	FWS	FWS	FWS	SCT	SCT	SCT
3	ASSAM & MEHGHALAYA	FWS	FWS	WS	FWS	SCT	SCT	FWS
4	NAGALAND, MANIPUR, MIZORAM AND TRIPURA	WS	WS	WS	FWS	SCT	SCT	FWS
5	SUB HIMALAYAN WEST BENGAL & SIKKIM	WS	WS	WS	FWS	FWS	WS	WS
6	GANGETIC WEST BENGAL	FWS	FWS	FWS	FWS	FWS	FWS	FWS
7	ODISHA	SCT	SCT	FWS	FWS	FWS	FWS	FWS
8	JHARKHAND	FWS	SCT	SCT	FWS	FWS	FWS	FWS
9	BIHAR	SCT	ISOL	FWS	FWS	FWS	SCT	SCT
10	EAST UTTAR PRADESH	SCT	SCT	SCT	FWS	FWS	FWS	FWS
11	WEST UTTAR PRADESH	FWS	FWS	SCT	SCT	FWS	SCT	SCT
12	UTTARAKHAND	WS	FWS	FWS	WS	FWS	FWS	FWS
13	HARYANA, CHANDIGARH & DELHI	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
14	PUNJAB	SCT	SCT	SCT	SCT	SCT	ISOL	ISOL
15	HIMACHAL PRADESH	WS	WS	FWS	FWS	SCT	SCT	SCT
16	JAMMU AND KASHMIR AND LADAKH	FWS	FWS	FWS	FWS	SCT	ISOL	ISOL
17	WEST RAJASTHAN	DRY	ISOL	ISOL	ISOL	ISOL	ISOL	DRY
18	EAST RAJASTHAN	ISOL	SCT	SCT	SCT	ISOL	ISOL	ISOL
19	WEST MADHYA PRADESH	SCT	FWS	FWS	FWS	FWS	SCT	SCT
20	EAST MADHYA PRADESH	WS	WS	WS	WS	FWS	FWS	FWS
21	GUJRAT REGION	SCT	SCT	SCT	SCT	SCT	SCT	SCT
22	SAURASHTRA & KUTCH	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
23	KONKAN & GOA	WS	WS	SCT	WS	WS	WS	WS
24	MADHYA MAHARASHTRA	FWS	FWS	SCT	ISOL	ISOL	SCT	SCT
25	MARATHWADA	SCT	FWS	ISOL	ISOL	ISOL	ISOL	ISOL
26	VIDARBHA	FWS	SCT	SCT	SCT	FWS	SCT	SCT
27	CHHATTISGARH	WS	FWS	SCT	SCT	FWS	FWS	FWS
28	COASTAL ANDHRA PRADESH	SCT	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
29	TELANGANA	SCT	SCT	ISOL	ISOL	ISOL	ISOL	ISOL
30	RAYALASEEMA	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
31	TAMILNADU & PUDUCHERRY	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL	ISOL
32	COSTAL KARNATAKA	WS	WS	WS	WS	WS	WS	WS
33	NORTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	SCT	SCT	SCT
34	SOUTH INTERIOR KARNATAKA	SCT	SCT	ISOL	ISOL	SCT	SCT	SCT
35	KERALA AND MAHE	WS	FWS	SCT	SCT	FWS	FWS	WS
36	LAKSHADWEEP	WS	FWS	SCT	SCT	FWS	FWS	WS

- As the lead period increases forecast accuracy decrease.





- Action may be taken based on ORANGE AND REDCOLOUR warnings.
- Vulnerable regions likely urban and hilly areas action may be initiated for heavy rainfall warning.
- As the lead period increases forecast accuracy decreases.

Detailed district-wise Multi-Hazard weather warning for next five days available at
<https://mausam.imd.gov.in/responsive/districtWiseWarningGIS.php>

Weather forecast over Delhi/NCR during 19th to 22nd August 2026**Past Weather:**

There has been no large change in maximum and minimum temperatures over Delhi during past 24 hours. The maximum temperatures were 34-35°C and the minimum temperatures are in the range 23-27°C respectively during past 24 hours over Delhi. The minimum temperatures are below normal (-1.6°C to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) at remaining parts of Delhi. The maximum temperatures were above normal (1.6°C to 3.0°C) at a few places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. Partly cloudy sky with surface wind speed 20 kmph from the west direction prevailed over Delhi during past 24 hours. Partly cloudy sky with surface wind speeds up to 20 kmph likely to prevail from the west direction over the region in the forenoon today.

Weather Forecast:

19.08.2026: Partly cloudy sky. A spell of very light to light rain at many places with moderate rain at isolated places during afternoon to evening. Another spell of very light to light rain at a few places towards night. The maximum temperatures over Delhi are likely to be in the range of 32-34°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6°C to -3.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the west direction with surface wind speed reaching up to 15 kmph during the afternoon. The wind speed will decrease becoming up to 12 kmph from the west direction during evening and night.

20.08.2026: Generally cloudy sky. One or two spells of light rain at many places with moderate rain at isolated places during morning to afternoon. Another spell of very light to light rain during evening to night. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 26°C to 28°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6°C to -3.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from the northwest direction with surface wind speed reaching up to 10 kmph during the morning hours. The wind speed will increase becoming up to 15 kmph from the north direction during afternoon. The wind speed will increase becoming up to 20 kmph from the southeast direction during evening and night.

21.08.2026: Generally cloudy sky. A spell of very light to light rain at a few places during morning to afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 32°C to 34°C and 25°C to 27°C respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at many places with below normal (-1.6°C to -3.0°C) at isolated places over Delhi. The predominant surface wind is likely to be from northwest direction with surface wind speed reaching up to 15 kmph during the morning hours. The wind speed will increase becoming up to 18 kmph from the northwest direction during afternoon. The wind speed will decrease becoming up to 12 kmph from the south direction during evening and night.

22.08.2026: Generally cloudy sky. A spell of very light to light rain at a few places during morning to afternoon. The maximum and minimum temperatures over Delhi are likely to be in the range of 31°C to 33°C and 25°C to 27°C, respectively. The minimum temperature will be near normal (-1.5°C to 1.5°C) at most places, and the maximum temperatures will be below normal (-1.6°C to -3.0°C) at most places over Delhi. The predominant surface wind is likely to be from the southwest direction with wind reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 18 kmph from the southwest direction during afternoon. The surface wind speed will decrease becoming up to 12 kmph from the southeast direction during evening and night.

Impact Expected and Action Suggested due to very heavy rainfall:

- ❖ **Isolated extremely heavy rainfall over East Madhya Pradesh on 19th August.**
- ❖ **Isolated very heavy rainfall likely over western Himalayan region, Uttar Pradesh on 19th August.**
- ❖ **Moderate to severe lightning activity over Bihar on 22nd August.**

Impact expected:

- ❖ Breaking of tree branches, uprooting of small trees like banana, papaya, drum sticks. Strong wind and rain may damage plantation, horticulture and standing crops.
- ❖ Partial damage to vulnerable structures due to strong winds and rain.
- ❖ Minor damage to kutcha houses/walls, huts and roads due to heavy rain.
- ❖ Loose objects may fly.
- ❖ Small ships, trawlers and boats may be affected.
- ❖ Road and rail traffic may be affected due to heavy rain and squally winds.
- ❖ There could be localised landslides, mudslides, landslips, water logging, inundation and flooding over low lying areas.
- ❖ Occasional reduction in visibility due to heavy rainfall.
- ❖ Helicopter services may get affected.

Action suggested:

- ❖ People are advised to keep a watch on the weather for worsening conditions and be ready to move to safer places accordingly.
- ❖ Take safe shelters; do not take shelter under trees, as there could be lightning.
- ❖ In case of expected lightning, unplug electrical/ electronic appliances, immediately, get out of water bodies and keep away from all the objects that conduct electricity.
- ❖ Tourism and recreational activities to be regulated.
- ❖ Onshore and offshore activities to be judiciously regulated.
- ❖ Helicopter services to be regulated.

Agromet advisories for likely impact of Heavy Rainfall

- In **Jammu & Kashmir**, ensure effective drainage in maize, pulses and vegetable fields and prevent water stagnation in low-lying areas. Provide proper support to cucurbit plants and remove excess water promptly from fields.
- In **Himachal Pradesh**, keep drainage channels in ginger and turmeric fields clear and functional and ensure prompt removal of excess rainwater from maize fields. Harvest mature cucumbers, bottle gourd, bitter gourd, snake gourd, ridge gourd and sponge gourd wherever field conditions permit and keep harvested produce in a safe place.
- In **Jharkhand**, maintain proper drainage in maize, pigeon pea and other standing crops and remove excess rainwater promptly. Postpone sowing of pigeon pea in areas where soil remains saturated and avoid fertilizer and plant protection operations during wet conditions.
- In **West Madhya Pradesh**, maintain proper drainage in soybean, maize, cotton, sugarcane and vegetable fields and remove excess rainwater promptly. Provide staking/support to vegetables and tall crops to minimize lodging and postpone sowing of kharif vegetables until excess water drains and suitable field conditions prevail.
- In **East Madhya Pradesh**, ensure proper drainage in soybean, maize, paddy and vegetable fields to prevent waterlogging. Postpone field operations, fertilizer application and plant protection measures in saturated fields and provide staking/support to vegetables and tall crops to minimize lodging.
- In **Chhattisgarh**, ensure effective drainage from rice, maize, groundnut, minor millets and pulses fields. Postpone fresh transplantation of rice in lowland areas, provide staking to creeper vegetables and undertake pending sowing of black gram only after excess water drains and soil conditions permit.
- In **Odisha**, ensure continuous and effective drainage of excess water from kharif rice, maize, pulses, cotton, pigeon pea, banana, vegetable fields and nursery beds. Keep field drains, outlets and bunds clear and functional. In waterlogged areas, postpone sowing/re-sowing and transplanting operations and prevent water stagnation in pearl millet. Provide staking/support to climbing vegetables, banana, papaya and young horticultural plants.
- In **Punjab**, maintain proper drainage in standing crop fields and promptly remove excess rainwater from low-lying areas. Avoid irrigation, fertilizer application and plant protection operations during wet conditions and provide support to young horticultural and vegetable crops against lodging.

- In **Haryana**, Chandigarh and Delhi, ensure effective drainage in standing crop fields and promptly remove excess rainwater from low-lying areas. Avoid irrigation, fertilizer and plant protection operations during wet conditions and keep field drainage channels clear.
- In **West Uttar Pradesh**, drain out excess water from paddy, pigeon pea, pulses, oilseeds and vegetable fields, particularly from low-lying areas. Continue nursery raising of brinjal, chilli and early cauliflower and sowing of cucurbits and okra only where field conditions permit.
- In **East Uttar Pradesh**, maintain effective drainage in paddy and other standing crop fields and promptly remove excess water from low-lying areas. Continue nursery raising of brinjal, chilli and early cauliflower and sowing of cucurbits and okra only where field conditions permit.
- In **Bihar**, ensure proper drainage of excess rainwater from rice, maize, pulses and other standing crop fields, particularly in low-lying areas. Postpone fertilizer and pesticide application during wet conditions and undertake rice transplanting, chilli sowing and planting of banana and yam only where field conditions permit.
- In **Arunachal Pradesh**, maintain proper drainage in maize, finger millet, soybean, cowpea, vegetable fields and orchards to prevent waterlogging.
- In **Assam and Meghalaya**, maintain proper drainage and keep field channels clear in rice, sugarcane, soybean, pigeon pea, jute, sesame and vegetable fields and orchards. Remove excess water promptly from low-lying fields and prevent water stagnation in sugarcane. In Meghalaya, ensure drainage in maize, cowpea, okra and ginger fields and remove excess water.
- In **Nagaland, Manipur, Mizoram and Tripura**, maintain proper drainage in rice, soybean, black gram, ginger, turmeric, cole crops and vegetable fields and prevent water stagnation. Postpone fertilizer and plant protection operations during wet conditions and provide staking/support to vulnerable crops wherever required.

Agromet advisories for likely impact of Thunderstorm / Gusty Winds

- Shift the harvested produce in safer places or cover the produce with tarpaulin sheets in the fields. Tie the harvested crops securely and cover them to minimize the risk of displacement from strong surface winds.
- Provide mechanical support to horticultural crops and staking or support to vegetables and young fruit plants / fruit-bearing plants to avoid lodging due to strong winds.

Livestock / Poultry / Fisheries

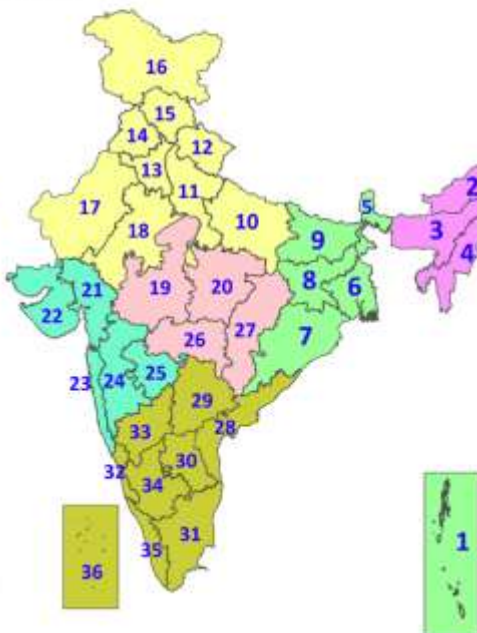
- Keep the animals inside the shed during heavy rainfall and provide them balanced feed.
- Store the feed and fodder in a safe place to prevent spoilage.
- Construct an outlet with proper netting around the ponds to drain excess water, thereby preventing fish from escaping in the event of overflow.

Legends & abbreviations:

- ❖ **Heavy Rain:** 64.5115.5mm; **Very Heavy Rain:** 115.6204.4mm; **Extremely Heavy Rain:** >204.4mm.
- ❖ **Obsy:** Observatory; **Automatic Weather Station;** **ARG:** Automatic Rain Gauge; **dist:** District; **NH:** National Highway; **KVK:** Krishi Vigyan Kendra; **DVC:** Damodar Valley Corporation; **PTO:** Part Time Office, **Aero:** Aerodrome, **IAF:** Indian Air Force.
- ❖ **Region wise classification of meteorological Sub-Divisions:**
 - **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.
 - **Central India:** West Madhya Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
 - **East India:** Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim; Gangetic West Bengal, Odisha and Andaman & Nicobar Islands.
 - **Northeast India:** Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
 - **West India:** Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathwada.
 - **South India:** Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Coastal Karnataka, North Interior Karnataka, South Interior Karnataka, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

LEGENDS

1. अंडमान और निकोबार द्वीपसमूह
2. अरुणाचल प्रदेश
3. असम और मेघालय
4. नागालैंड, मणिपुर, मिजोरम और त्रिपुरा
5. उप-हिमालयी पश्चिम बंगाल और सिक्किम
6. गंगीय पश्चिम बंगाल
7. ओडिशा
8. झारखंड
9. बिहार
10. पूर्वी उत्तर प्रदेश
11. पश्चिम उत्तर प्रदेश
12. उत्तराखंड
13. हरियाणा, चंडीगढ़ और दिल्ली
14. पंजाब
15. हिमाचल प्रदेश
16. जम्मू और कश्मीर और लद्दाख
17. पश्चिम राजस्थान
18. पूर्वी राजस्थान
19. पश्चिम मध्य प्रदेश
20. पूर्वी मध्य प्रदेश
21. गुजरात
22. सौराष्ट्र
23. कोंकण और गोवा
24. मध्य महाराष्ट्र
25. मराठवाड़ा
26. विदर्भ
27. छत्तीसगढ़
28. तटीय आंध्र प्रदेश और यनम
29. तेलंगाना
30. रायलसीमा
31. तमिलनाडु, पुडुचेरी और कराईकल
32. तटीय कर्नाटक
33. आंतरिक उत्तरी कर्नाटक
34. आंतरिक दक्षिणी कर्नाटक
35. केरल और 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. Odisha
8. Jharkhand
9. Bihar
10. East Uttar Pradesh
11. West Uttar Pradesh
12. Uttarakhand
13. Haryana, Chandigarh & 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. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Chhattisgarh
28. Coastal Andhra Pradesh & Yanam
29. Telangana
30. Rayalaseema
31. Tamilnadu, Puducherry & Karaikal
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)

- | | | |
|----------------------|----------------------|--------------|
| Fog | Heavy Snow | Cold Wave |
| Heavy Rain | Dust Storm | Cold Day |
| Very Heavy Rain | Heat Wave | Ground Frost |
| Extremely Heavy Rain | Warm Night | |
| Thunder & Lightning | Hot Day | |
| Hailstorm | Hot & Humid | |
| Dust Raising Winds | Strong Surface Winds | |

COLOUR CODED WARNING

- No Warning (No Action)
- Watch (Be Aware)
- Alert (Be Prepared To Take Action)
- Warning (Take Action)

Probabilistic Forecast

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

DEFINITION/CRITERIA

Rain/ Snow *	Heavy: 64.5 to 115.5 mm/cm * Very Heavy: 115.6 to 204.4 mm/cm * Extremely Heavy: > 204.4 mm/cm *
Heat Wave	When maximum temperature of a station reaches $\geq 40^{\circ}\text{C}$ for plains and $\geq 30^{\circ}\text{C}$ for hilly regions (a) Based on Departure from normal Heat Wave: Maximum Temperature Departure from normal 4.5°C to 6.4°C . Severe Heat Wave: Maximum Temperature Departure from normal $\geq 6.5^{\circ}\text{C}$ (b) Based on Actual maximum temperature Heat Wave: When actual maximum temperature $\geq 45^{\circ}\text{C}$. Severe Heat Wave: When actual maximum temperature $\geq 47^{\circ}\text{C}$. (c) Criteria for heat wave for coastal stations When maximum temperature departure is $> 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$
Warm Night	When maximum temperature remains 40°C Warm Night: When minimum temperature departure 4.5°C to 6.4°C . Severe Warm Night: When minimum temperature departure $> 6.4^{\circ}\text{C}$.
Cold Wave	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions. (a) Based on departure Cold Wave: Minimum Temperature Departure from normal -4.5°C to -6.4°C . Severe Cold Wave: Minimum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$ (b) Based on actual Minimum Temperature (for Plains only) Cold Wave: When Minimum Temperature is $\leq 4.0^{\circ}\text{C}$ Severe Cold Wave: When Minimum Temperature is $\leq 2.0^{\circ}\text{C}$ (c) For Coastal Stations When Minimum Temperature departure is $\leq -4.5^{\circ}\text{C}$ & actual Minimum Temperature is $\leq 15^{\circ}\text{C}$
Cold Day	When minimum temperature of a station $\leq 10^{\circ}\text{C}$ for plains and $\leq 0^{\circ}\text{C}$ for hilly regions Based on departure Cold Day: Maximum Temperature Departure from normal -4.5°C to -6.4°C . Severe Cold Day: Maximum Temperature Departure from normal $\leq -6.5^{\circ}\text{C}$
Fog	Phenomenon of small droplets suspended in air and the horizontal visibility $< 1\text{km}$ Moderate Fog: When the visibility between 500-200 metres Dense Fog: when the visibility between 50-200 metres Very Dense Fog: when the visibility < 50 metres
Thunderstorm	Sudden electrical discharges manifested by a flash of light (Lightning) and a sharp rumbling sound (thunder)
Dust/Sand Storm	An ensemble of particles of dust or sand energetically lifted to great heights by a strong and turbulent wind.
Frost	Ice deposits on ground Air temperature $\leq 4^{\circ}\text{C}$ (over Plains)
Squall	A strong wind that rises suddenly, lasts for atleast 1 minute. Moderate: Wind speed 52-61 kmph Severe: Wind speed 62-87 kmph Very Severe: Wind speed > 87 kmph
Sea State	Effect of various waves in the sea over specific area Rough to very rough: Wind speed 41-62 kmph (22-33 knots) & Wave height 2.5-6 metre High to very high: Wind speed 63-117 kmph (34-63 knots) & Wave height 6-14 metre Phenomenal: Wind speed > 117 kmph (> 63 knots) & Wave height > 14 metre
Cyclone	Cyclonic Storm: Wind speed 62-87 kmph (34-47 knots) Severe Cyclonic Storm: Wind speed 88-117 kmph (48-63 knots) Very Severe Cyclonic Storm: Wind speed 118-185 kmph (64-89 knots) Extremely Severe Cyclonic Storm: Wind speed 186-220 kmph (90-119 knots) Super Cyclone Storm: Wind speed > 220 kmph (> 119 knots)

* Red colour warning does not mean "Red Alert", Red colour 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.

For more details, kindly visit <https://mausam.imd.gov.in> or contact: 011-2434-4599

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