



Government of India
Ministry of Earth Sciences
India Meteorological Department



Press Release

Date: 18th September 2026

Time of Issue: 1310 hours IST

Subject: (i) Conditions are becoming favourable for withdrawal of Southwest Monsoon from some parts of West Rajasthan around 19th September, 2026.

(ii) A Low Pressure Area is likely to form over Andaman Sea & neighbourhood around 19th September 2026.

Realised weather during past 24 hours ending at 0830 hours IST of today, the 18th September, 2026:

- ❖ **Very Heavy rainfall (12-20 cm)** has been recorded over East Rajasthan, Saurashtra, Gujarat, Bihar and Sikkim.
- ❖ **Heavy rainfall (7-11 cm)** has been recorded over Assam, Gangetic West Bengal, Odisha, Jharkhand, Madhya Pradesh, Marathwada, Gujarat Region, Telangana, South Interior Karnataka and Tamil Nadu.

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

- ❖ Conditions are becoming favourable for **withdrawal of Southwest Monsoon** from some parts of West Rajasthan around 19th September, 2026.
- ❖ An **upper air cyclonic circulation** lay over north Gujarat & neighbourhood in lower tropospheric levels.
- ❖ An **upper-air cyclonic circulation** over north Thailand persisted over the same region at 0830 hrs IST of today, the 18th September, 2026 in lower tropospheric levels. It is likely to emerge over the north Andaman Sea around 18th September evening and under its influence a **low pressure area** is likely to form over the same region around the evening of 19th September, 2026. Thereafter, it is likely to intensify gradually and move west-northwestwards towards south Odisha-north Andhra Pradesh coasts during subsequent 3-4 days.
- ❖ The Western disturbance now seen as a trough in middle tropospheric Westerlies roughly along Long. 75°E to the north of Lat. 28°N.
- ❖ A **trough** runs from Sikkim to North Bay of Bengal across Bangladesh in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over Sikkim & neighbourhood in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** lies over East Bangladesh in lower tropospheric level.
- ❖ An **upper air cyclonic circulation** over north interior Tamil Nadu & neighbourhood in middle tropospheric levels
- ❖ A **trough** runs from Marathwada to Southeast Arabian Sea in middle tropospheric level.

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

Northwest India:

- ❖ **Isolated to Scattered** rainfall accompanied with thunderstorm lightning likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 18th September and during 23rd-24th September; Himachal Pradesh and Uttarakhand during 18th-24th September.
- ❖ **Isolated to Scattered** rainfall accompanied with thunderstorm lightning likely over Haryana Chandigarh & Delhi, Punjab, West Rajasthan and West Uttar Pradesh during 18th-19th September; East Uttar Pradesh during 18th-20th September; East Rajasthan during 19th-22nd September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over East Rajasthan on 18th September.
- ❖ Isolated **heavy rainfall** likely over East Rajasthan on 19th September with isolated **very heavy rainfall** also likely over East Rajasthan on 18th September.

Central India:

- ❖ **Fairly Widespread to Widespread** rainfall accompanied with thunderstorm lightning likely over West Madhya Pradesh during 18th-19th September; East Madhya Pradesh during 18th-19th September and on 24th September; Vidarbha during 18th-19th September and during 21st-24th September; Chhattisgarh during 19th-24th September.

- ❖ **Isolated to Scattered** rainfall accompanied with thunderstorm lightning likely over West Madhya Pradesh during 20th-24th September; East Madhya Pradesh during 20th-23rd September; Vidarbha on 20th September; Chhattisgarh on 18th September.
- ❖ Isolated **heavy rainfall** likely over West Madhya Pradesh on 18th September and on 24th September; East Madhya Pradesh on 24th September; Chhattisgarh during 22nd-24th September.

East India:

- ❖ **Fairly Widespread to Widespread** rainfall accompanied with thunderstorm lightning likely over Andaman & Nicobar Islands during 18th-24th September; Sub-Himalayan West Bengal & Sikkim during 18th-19th September; Gangetic West Bengal during 18th-20th September and during 23rd-24th September; Jharkhand on 24th September; Odisha during 22nd-24th September.
- ❖ **Isolated to Scattered** rainfall accompanied with thunderstorm lightning likely over Sub-Himalayan West Bengal & Sikkim during 20th-24th September; Gangetic West Bengal during 21st-22nd September; Jharkhand during 18th-23rd September; Bihar during 18th-24th September; Odisha during 18th-21st September.
- ❖ Isolated **heavy rainfall** likely over Andaman & Nicobar Islands on 20th September; Sub-Himalayan West Bengal & Sikkim on 19th September and on 24th September; Gangetic West Bengal during 23rd-24th September; Bihar on 18th September; Odisha during 18th-19th September and on 22nd September with isolated **very heavy rainfall** also likely over Gangetic West Bengal on 18th September; Andaman & Nicobar Islands during 18th-19th September; Sub-Himalayan West Bengal & Sikkim on 18th September; Odisha during 23rd-24th September.
- ❖ **Moderate to severe lightning activity likely over Odisha and Gangetic West Bengal on 18th September.**

Northeast India:

- ❖ **Isolated to Scattered** rainfall likely over Arunachal Pradesh and Assam & Meghalaya during 18th-23rd September; Nagaland, Manipur, Mizoram & Tripura during 18th-19th September and during 21st-23rd September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Arunachal Pradesh and Assam & Meghalaya on 24th September; Nagaland, Manipur, Mizoram & Tripura on 20th September and on 24th September.
- ❖ Isolated **thunderstorm & lightning** likely over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 18th-20th September.
- ❖ Isolated **heavy rainfall** likely over Assam & Meghalaya on 18th September; Nagaland, Manipur, Mizoram & Tripura during 19th-20th September.

West India:

- ❖ **Fairly Widespread to Widespread** rainfall likely over Konkan & Goa on 18th September and during 21st-24th September; Madhya Maharashtra during 21st-22nd September; Gujarat Region during 18th-19th September.
- ❖ **Isolated to Scattered** rainfall likely over Konkan & Goa during 19th-20th September; Madhya Maharashtra during 18th-20th September and during 23rd-24th September; Marathwada during 18th-24th September; Gujarat Region during 20th-24th September; Saurashtra & Kutch during 18th-23rd September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Konkan & Goa during 21st-22nd September; Madhya Maharashtra and Marathwada during 20th-22nd September, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Konkan & Goa during 18th-20th September; Madhya Maharashtra and Marathwada during 18th-19th September.
- ❖ Isolated **thunderstorm & lightning** likely over Gujarat Region during 18th-19th September; Saurashtra & Kutch on 18th September.
- ❖ Isolated **heavy rainfall** likely over Konkan & Goa during 21st-22nd September; Madhya Maharashtra on 18th September and during 20th-22nd September with isolated **very heavy rainfall** also likely over Gujarat Region on 18th September.

South Peninsular India:

- ❖ **Isolated to Scattered** rainfall likely over Rayalaseema and Tamil Nadu, Puducherry & Karaikal during 18th-24th September; Coastal Karnataka during 18th-19th September; North Interior Karnataka, South Interior Karnataka and Telangana on 18th September; Coastal Andhra Pradesh & Yanam during 18th-22nd September.
- ❖ **Fairly Widespread to Widespread** rainfall likely over Kerala & Mahe and Lakshadweep during 18th-24th September; Coastal Karnataka during 20th-24th September; North Interior Karnataka, South Interior Karnataka and Telangana during 19th-24th September; Coastal Andhra Pradesh & Yanam during 23rd-24th September.
- ❖ Isolated **thunderstorm, lightning & gusty winds (speed reaching 40-50 kmph gusting to 60 kmph)** likely over Tamil Nadu, Puducherry & Karaikal during 18th-22nd September; Coastal Andhra Pradesh & Yanam and Rayalaseema during 20th-22nd September, **with gusty winds (speed reaching 30-40 kmph gusting to 50 kmph)** likely over Coastal Karnataka during 21st-22nd September; North Interior Karnataka during 20th-22nd September; South Interior Karnataka during 19th-22nd September; Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-19th September; Telangana during 18th-22nd September.

- ❖ Isolated **thunderstorm & lightning** likely over Kerala & Mahe during 18th-20th September; Lakshadweep and North Interior Karnataka during 18th-19th September; South Interior Karnataka on 18th September.
- ❖ Isolated **heavy rainfall** likely over Tamil Nadu, Puducherry & Karaikal during 18th-22nd September; Kerala & Mahe during 18th-20th September and on 24th September; Coastal Karnataka and North Interior Karnataka during 20th-24th September; South Interior Karnataka during 18th-24th September; Coastal Andhra Pradesh & Yanam during 18th-20th September and during 23rd-24th September; Rayalaseema on 19th September; Telangana during 19th-24th September.
- ❖ Strong Surface Winds likely over Coastal Andhra Pradesh & Yanam and Rayalaseema during 18th-22nd September.

Hot & Humid weather warning:

- ❖ **Hot and humid** weather conditions likely to prevail over Kerala & Mahe on 18th September.

Fishermen Warning:

- ❖ **Arabian Sea:** Along and off Somalia coasts, few parts of southwest Arabian Sea till 23rd September; few parts of westcentral Arabian Sea on 18th September.
- ❖ **Bay of Bengal:** Over some parts of southeast Bay of Bengal and over Andaman Sea till 23rd September; over few parts of southwest Bay of Bengal adjoining south Sri Lanka coasts during 19th to 23rd September; some parts of eastcentral Bay of Bengal and along & off south Myanmar coast on 21st September; many parts of eastcentral & adjoining northeast Bay of Bengal and along & off south Myanmar coast on 22nd September.

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>

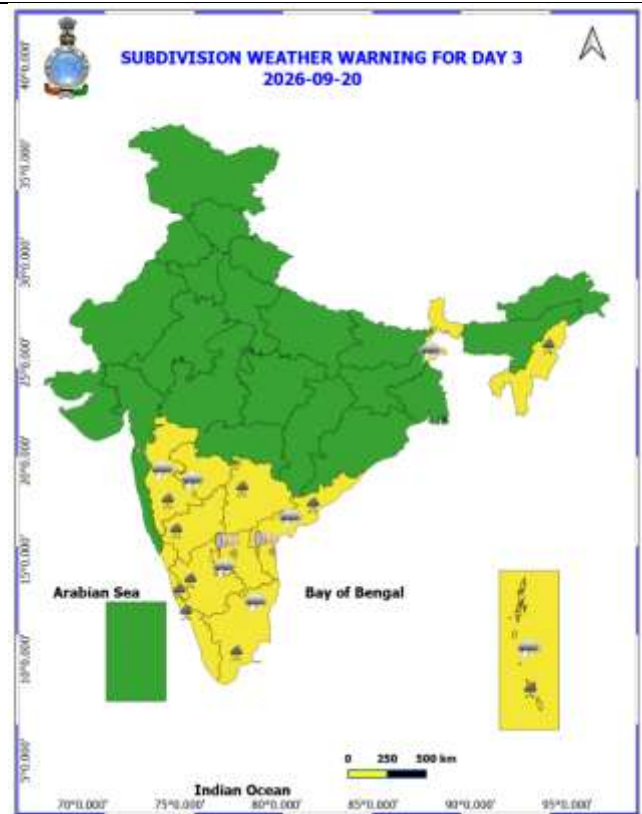
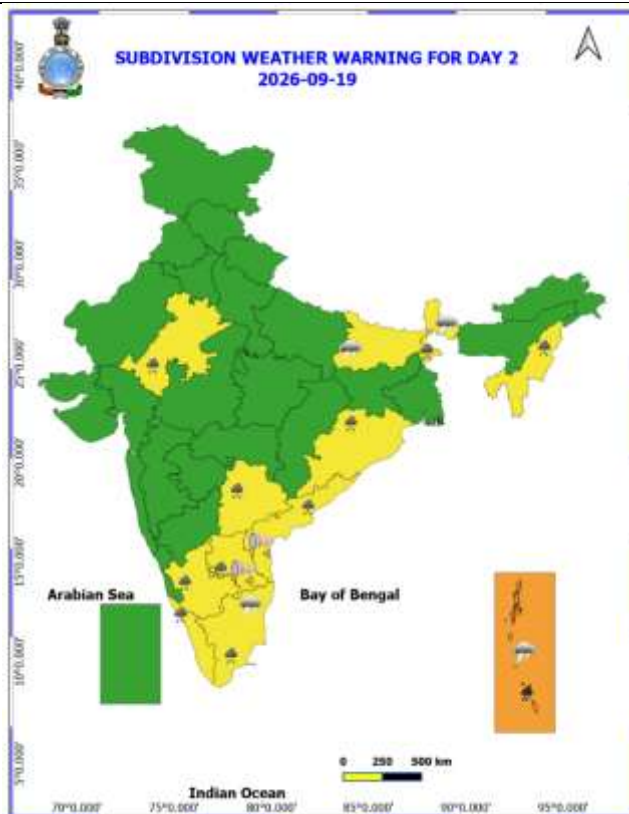
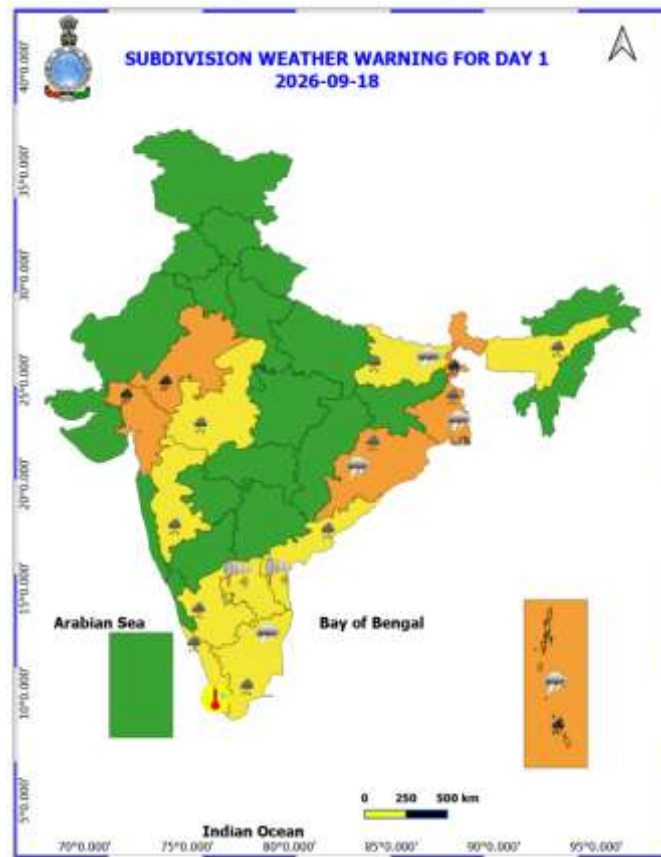
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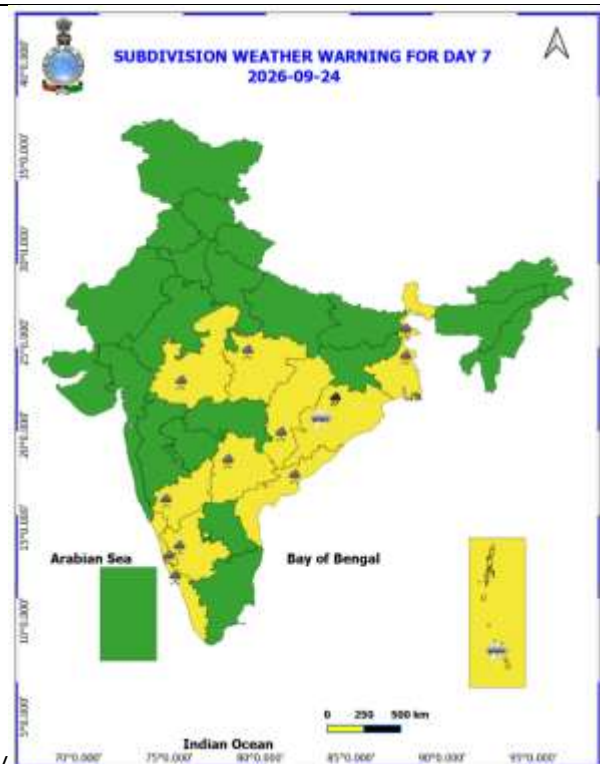
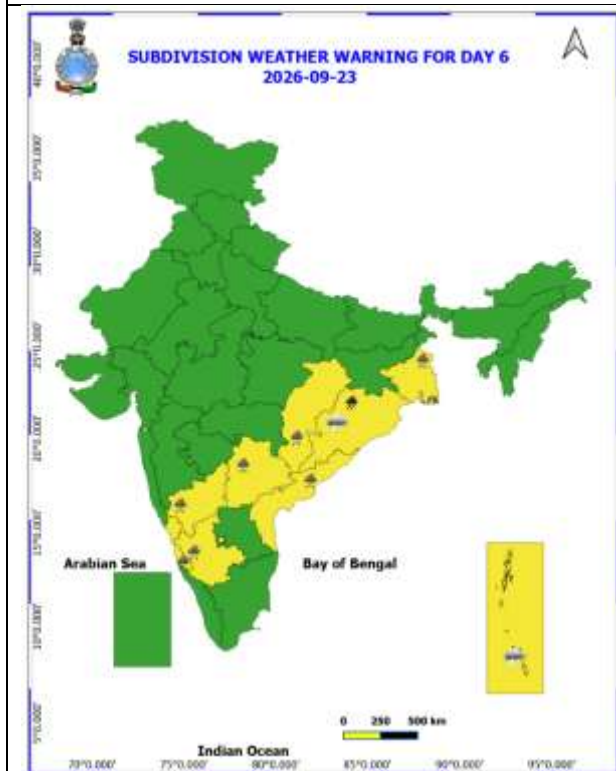
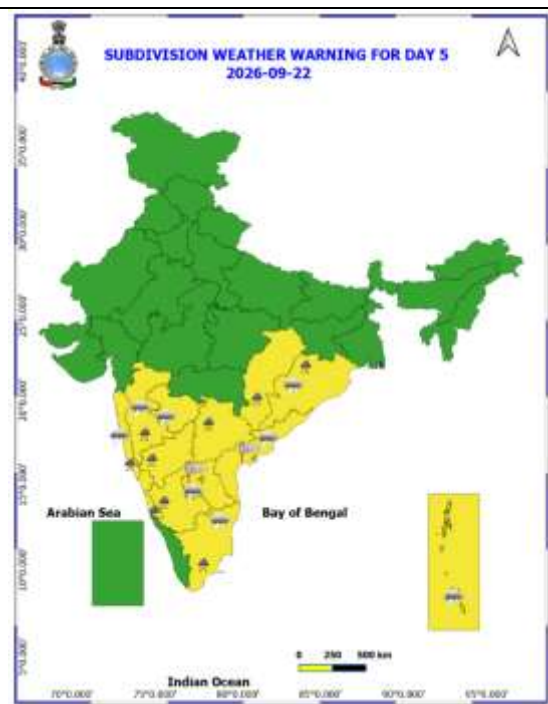
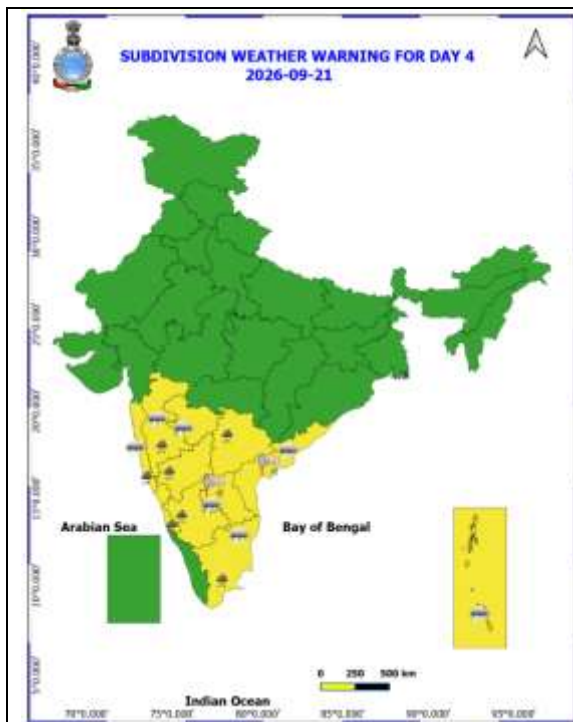
Highest rainfall recorded (≥ 7 cm) (from 0830 hours IST of yesterday to 0830 hours IST of today over different Meteorological Subdivision):

- ❖ **East Rajasthan:** Aspur (dist Dungarpur) 20
- ❖ **Sikkim:** Dima 16
- ❖ **Saurashtra:** Malia_miana (Morbi) 13
- ❖ **Bihar:** Pothia(Dist.Kishanganj) 13
- ❖ **Marathawada:** Sonpath (Parbhani) 11
- ❖ **Gujarat Region:** Kheroj 12
- ❖ **West Madhya Pradesh:** Sabalgarh 11
- ❖ **Assam:** Beki Mathanguri 9
- ❖ **Telangana:** Kaveri_Siddipet(Siddipet) 8
- ❖ **Gangetic West Bengal:** Amta 8
- ❖ **Tamil Nadu:** Pullambadi(Tituchirapalli) 8
- ❖ **East Madhya Pradesh:** Orchha 7
- ❖ **Odisha:** Bhangriposi (Dist.Mayurbhanj) 7
- ❖ **Jharkhand:** Thethaitanger 7
- ❖ **South Interior Karnataka:** Madhugiri (dist Tumakuru) 7.

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

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 18th -21st September 2026**Past Weather:**

There has been fall in maximum temperatures by 1-2°C and no large change in minimum temperatures over Delhi during the past 24 hours. The maximum temperatures were around 33-34°C and the minimum temperatures are in the range 21-25°C respectively during past 24 hours over Delhi. The minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at isolated places, below normal (-1.6 to -3.0°C) at isolated places and normal (-1.5°C to 1.5°C) over remaining parts of Delhi. The maximum temperatures were normal (-1.5°C to 1.5°C) over most parts of Delhi. Partly cloudy sky with surface wind speed 22 kmph from the southwest direction prevailed over Delhi during past 24 hours. Mainly clear sky with surface wind speeds up to 20 kmph from the northwest direction likely to prevail during forenoon over the region today.

Weather Forecast:

18.09.2026: Mainly clear sky becoming partly cloudy sky during afternoon to evening. The maximum temperatures over Delhi are likely to be in the range of 33-35°C. The maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with surface wind speed reaching up to 15 kmph during the afternoon. The surface wind speed will decrease becoming up to 12 kmph from the northeast direction during evening and night hours.

19.09.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 22°C to 24°C, respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places, and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the northwest direction with wind speed reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 18 kmph from the north direction during afternoon. The surface wind speed will decrease becoming up to 15 kmph from the northeast direction during evening and night hours.

20.09.2026: Partly cloudy sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 22°C to 24°C, respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the east direction with wind speed reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 18 kmph from the north direction during afternoon. The surface wind speed will decrease becoming up to 15 kmph from the northeast direction during evening and night hours.

21.09.2026: Mainly clear sky. The maximum and minimum temperatures over Delhi are likely to be in the range of 34°C to 36°C and 22°C to 24°C, respectively. The minimum temperature will be below normal (-1.6°C to -3.0°C) at most places and the maximum temperatures will be near normal (-1.5°C to 1.5°C) at most places over Delhi. The predominant surface wind is likely to be from the southeast direction with wind speed reaching up to 15 kmph during the morning hours. The surface wind speed will increase becoming up to 20 kmph from the northwest direction during afternoon. The surface wind speed will decrease becoming up to 15 kmph from the southwest direction during evening and night hours.

Impact Expected and Action Suggested due to very heavy rainfall:

- ❖ Isolated very heavy rainfall likely over East Rajasthan, Sub-Himalayan West Bengal & Sikkim and Gujarat Region on 18th; Andaman & Nicobar Islands during 18th-19th September; Odisha during 23rd-24th September.
- ❖ Moderate to severe lightning activity likely over Odisha and Gangetic West Bengal on 18th September.

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 **Andaman & Nicobar**, provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Assam & Meghalaya**, drain excess water from maize, black gram, green gram and sesame fields and keep drainage channels clear. Maintain suitable water levels in rice, support papaya, banana and weak-stemmed crops, and harvest pumpkins and bottle gourd before the rains wherever possible.
- In **Mizoram**, prepare fields for sowing black gram, green gram, soybean, sesame and lentil after maize harvest. Ensure drainage in ginger fields and prevent water stagnation to minimise soft-rot and rhizome-rot incidence.
- In **Sub-Himalayan West Bengal & Sikkim**, maintain safe water levels in rice and clear drainage channels in rice and green gram fields. Drain excess water from rice fields, protect pointed gourd.
- In **Odisha**, make immediate arrangements to drain excess water from rice, maize, millets, ginger, turmeric, vegetables, pulses and orchards. Protect vegetable nurseries, provide staking to vegetables and undertake earthing-up around newly planted banana saplings; postpone field operations until rainfall ceases and soil conditions become suitable.
- In **Telangana, Coastal Andhra Pradesh and Rayalseema** provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Undertake propping in sugarcane. Postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.
- **West Madhya Pradesh** - Ensure proper drainage in soybean, cotton, maize and sugarcane fields to prevent waterlogging. Provide support to vulnerable plants and undertake propping in tall sugarcane to minimize lodging.
- In **East Rajasthan**, provide adequate drainage in standing crop fields to avoid waterlogging. provide mechanical support to banana & papaya plantations and staking to young plants and vegetables. Undertake propping in sugarcane.
- In **Madhya Maharashtra**, postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.

- In **Gujarat**, avoid irrigation, fertilizer/top dressing and interculturing during wet conditions and ensure proper drainage. Undertake plant-protection operations only after rainfall ceases and a sufficiently rain-free, calm window is availableWMP
- In **Bihar**, avoid pesticide/fungicide spraying during rainy conditions and undertake plant-protection measures only during a clear, dry spell.
- In **South Interior Karnataka**, Protect harvested produce by keeping it in safe, covered storage, and secure farm structures and equipment. Postpone irrigation, intercultural operations and application of plant protection measures & fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging.
- In **Tamil Nadu**, drain excess water from standing crop fields and avoid fertilizer and pesticide applications during rainfall, particularly where heavy rainfall was received yesterday. Provide support to banana plants and prop sugarcane against lodging.
- In **Kerala**, ensure effective drainage in banana, black pepper, coconut, ginger and turmeric fields following the recent rainfall and provide strong support to banana plants and trellis-grown crops. Postpone all field operations until rainfall ceases and soil conditions become suitable.

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.

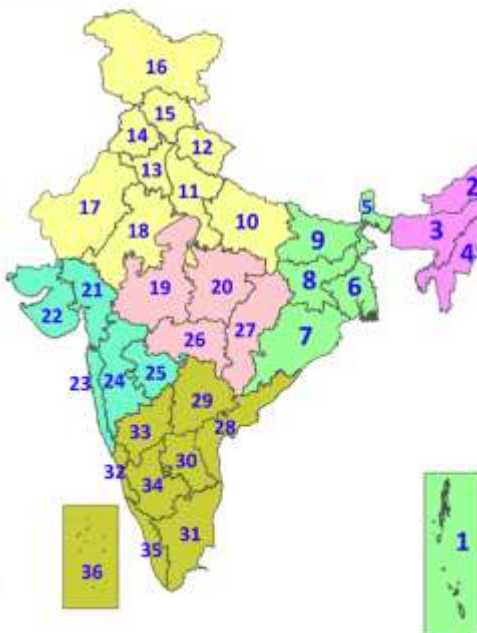
Northeast India: Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.

West India: Gujarat Region, Saurashtra & Kutch, Coastal Maharashtra (Konkan) & Goa, Madhya Maharashtra and Marathawada.

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

* 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
(Service to the Nation since 1875)

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)

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