



## PRESS RELEASE

Dated: 27<sup>th</sup> July 2021  
Time of Issue: 1500 IST

**Subject: Regarding increase in monsoon activity and heavy to very heavy spell of rainfall over Punjab & Haryana during 27<sup>th</sup> to 29<sup>th</sup> July 2021.**

As indicated earlier vide press release dated 24<sup>th</sup> July 2021, **Rainfall activity is most likely to increase in intensity and spread over Punjab and Haryana including Chandigarh during next 48- 72 hours.** Light to moderate rain/thundershowers are very likely at most places with **Heavy to very heavy rainfall at isolated places over northern, eastern & south eastern parts of Punjab and northern, eastern and southern parts of Haryana.** Kindly refer to daily District wise forecast and warnings issued in this regard. Said spell is very likely to be accompanied with Thunderstorm and Lightning.

**Expected impacts and suggested measures are also included in this regard.** Day wise rainfall forecast is given in Table1 and weather warnings are given in Table 2.

**Table1: 5 Day Rainfall Forecast**

\*Note: Forecast and warning for any day are valid from 0830IST of that day to 0830IST of next day.

Region	27-July	28-July	29-July	30-July	31-July
Punjab	Light to moderate rain likely at most places with heavy rain at isolated places	Light to moderate rain likely at most places with heavy rain at isolated places	Light to moderate rain likely at many places with heavy to very heavy rain at isolated places	Light to moderate rain likely at many places	Light to moderate rain likely at a few places
Haryana	Light to moderate rain likely at most places with heavy to very heavy rain at isolated places	Light to moderate rain likely at most places with heavy to very heavy rain at isolated places	Light to moderate rain likely at many places with heavy to very heavy rain at isolated places	Light to moderate rain likely at many places with heavy rain at isolated places	Light to moderate rain likely at many places with heavy rain at isolated places

**Table2: 5 Day Weather Warning**

\*Note: Forecast and warning for any day are valid from 0830IST of that day to 0830IST of next day.

Region	27-July	28-July	29-July	30-July	31-July
Punjab	Heavy to very heavy rain likely at isolated places Thunderstorm with Lightning at few places	Heavy to very heavy rain likely at isolated places Thunderstorm with Lightning at few places	Heavy to very heavy rain likely at isolated places	NIL	NIL
Haryana	Heavy to very heavy rain likely at isolated places Thunderstorm with Lightning at few places	Heavy to very heavy rain likely at isolated places. Thunderstorm with Lightning at few places	Heavy to very heavy rain likely at isolated places	Heavy rain likely at isolated places	Heavy rain likely at isolated places

For latest District wise warnings kindly use following links

**District wise weather warnings Punjab**

[https://rmcnewdelhi.imd.gov.in/MET\\_CENTRES/MCCHANDIGARH/uploads/weather\\_warning\\_punjab.pdf](https://rmcnewdelhi.imd.gov.in/MET_CENTRES/MCCHANDIGARH/uploads/weather_warning_punjab.pdf)

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

**District wise weather warnings Haryana.**

[https://rmcnewdelhi.imd.gov.in/MET\\_CENTRES/MCCHANDIGARH/uploads/weather\\_warning\\_haryana.pdf](https://rmcnewdelhi.imd.gov.in/MET_CENTRES/MCCHANDIGARH/uploads/weather_warning_haryana.pdf)

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

**Impact based forecast for Tricity (Chandigarh, Panchkula & Mohali)**

[https://rmcnewdelhi.imd.gov.in/MET\\_CENTRES/MCCHANDIGARH/uploads/ibf\\_city.pdf](https://rmcnewdelhi.imd.gov.in/MET_CENTRES/MCCHANDIGARH/uploads/ibf_city.pdf)

**Expected impacts and suggested measures for Very Heavy Rainfall (during 27<sup>th</sup> to 29<sup>th</sup> July 2021)**

Very Heavy Rainfall	
Expected impacts	Suggested measures
<ul style="list-style-type: none"><li>• Water logging of low lying areas.</li><li>• Disruptions of Municipal services (Water, Electricity etc.)</li><li>• Traffic congestion due to water logging, slippery roads and low visibility may lead to increased travel time.</li><li>• Danger to Life near water bodies and Streams.</li><li>• Damage to weak structures.</li><li>• Damage to harvested crops lying in open.</li><li>• Delay in Rail and Air Transport.</li></ul>	<ul style="list-style-type: none"><li>• Avoid going to low lying areas, rivers and other water bodies.</li><li>• Avoid venturing into water logged areas.</li><li>• Don't stand near weak structures.</li><li>• Maintenance of drainage network should be done.</li><li>• Avoid application of Fertilizers and Pesticides.</li><li>• Don't keep harvested crop in open.</li><li>• Drive carefully during rain.</li><li>• Keep yourself updated about any delay in flight and train schedule.</li></ul>

Meteorological Centre Chandigarh,  
India Meteorological Department

Note: Forecast/Warning for any day is valid from 0830 hours IST of that day till 0830 hours IST of next day

WARNING	PROBABILISTIC FORECAST		SPATIAL		RAINFALL INTENSITY	
WARNING(TAKE ACTION)	Terms	Probability of Occurrence	DRY	No Rainfall	Light	2.5-15.5 mm
ALERT (BE PREPARED)	Unlikely	<25%	ISOLATED	1-25%	Moderate	15.6-64.4 mm
WATCH (BE UPDATED)	Likely	25-50%	FEW	26-50%	Heavy	64.5-115.5 mm
NO WARNING (NO ACTION)	Very Likely	50-75%	MANY	51-75%	Very Heavy	115.6-204.4 mm
	Most Likely	>75%	MOST	76-100%	Extremely Heavy	≥204.5 mm

## 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



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  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $40^{\circ}\text{C}$

Warm Night: When minimum temperature departure  $4.5^{\circ}\text{C}$  to  $6.4^{\circ}\text{C}$ .

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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

Severe Cold Wave: Minimum Temperature Departure from normal  $\geq -6.5^{\circ}\text{C}$

(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  $\leq -4.5^{\circ}\text{C}$  or 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  $-4.5^{\circ}\text{C}$  to  $-6.4^{\circ}\text{C}$ .

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 118-165 kmph (64 - 89 knots)

Extremely Severe Cyclonic Storm: Wind speed 166-220 kmph (90 -119 knots)

Super Cyclone Storm: Wind speed  $>220$  kmph ( $>119$  knots)