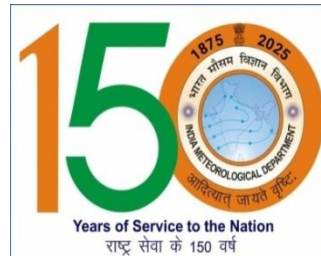




भारतसरकार
GOVERNMENT OF INDIA
भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT
मौसम केंद्र, बिरसा मुंडा विमानपत्तन
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Daily Weather Bulletin for Jharkhand

Wednesday, 16th July, 2025

Time: 13: 00 hrs. IST

Station Name: Ranchi			
Tomorrow's Sunrise (IST)	05:14	Today's Sunset (IST)	18:37
Tomorrow's Moonrise (IST)	23:03	Today's Moonset (IST)	10:12

<u>Synoptic Features</u>		<ul style="list-style-type: none">The Well-Marked Low Pressure area over southwest Bihar and adjoining east Uttar Pradesh persists over the same region at 0830 hrs IST of today, the 16th July 2025. The associated cyclonic circulation extends upto 7.6 km above mean sea level tilting southwestward with height. It is likely to move west-northwestwards across southwest Bihar and east Uttar Pradesh during next 24 hours.The monsoon trough at mean sea level now passes through centre of well-marked low Pressure area over northwest Rajasthan & neighbourhood, Gwalior, center of well-marked low Pressure area over southwest Bihar and adjoining east Uttar Pradesh, Purulia, Contai and thence southeastwards of northeast Bay of Bengal.
<u>Realized Weather (during past 24 hrs):</u>		Monsoon was Active over the state. Light to moderate rainfall with thunderstorm observed at most places while Heavy to Very Heavy rainfall also occurred at isolated places over the state. The highest rainfall 204.0 mm was observed at CHAINPUR (Palamu) . The highest maximum temperature 33.3°C was recorded at SARAIKELA-AWS while the lowest minimum temperature 21.0°C was recorded at LATEHAR-AWS .
<u>Maximum Temperatures:</u>	<u>Last 24 hrs. Change:</u>	No large change (-2.0°C to +2.0°C) & Appreciable fall (-2.1°C to -4.0°C) each at few places over Jharkhand.
	<u>Normal Departures:</u>	Normal (-1.5°C to 1.5°C) at few places; Below normal (-1.6°C to -3.0°C) & Appreciably below normal (-3.1°C to -5.0°C) each at isolated places over Jharkhand
<u>Minimum Temperatures:</u>	<u>Last 24 hrs. Change:</u>	No large change (-2.0°C to +2.0°C) at few places; Appreciable fall (-2.1°C to -4.0°C) & Appreciable rise (2.1°C to 4.0°C) each at isolated places over Jharkhand
	<u>Normal Departures:</u>	Normal (-1.5°C to 1.5°C) at many places; Below normal (-1.6°C to -3.0°C) at isolated places over Jharkhand.
<u>Chief amount of Rainfall (in mm):</u>		CHAINPUR-204; DALTONGANJ-158.2; RAJDHANWAR-147.6; DHURKI-108.5; SIKATIA-104.2; LESLIGANJ-98.5; TULADIH-93.5; PANKI-93.3; BARKISURIYA-90; GIRIDIH-83; NAWA BAZAR-82.7; HAZARIBAGH KVK-82; SUJANI KVK AWS-81; BARIYATU-80; PAPUNKI-73.4; JAMTARA-72.8; KARMATAND-72.4; PADMA DVC-72; NAUDIHA BAZAR-72; PALGANJ-72; TOPCHANCHI-71.6; PURVI TUNDI-71; KONER-69.8; TILAIYA-69.2; TUNDI-66.4; BORIO-66.2; KODERMA DVC-65.6; NANDADIH-65.4; RAMGARH-65; TILAIYA DVC-65; NAWADIH-62.2; KONER DVC-61.8; PHUSRO-60.8; NARAYANPUR-60.6; HAZARIBAGH DVC-60.4; BHAWNATHPUR-59.6; DUMRI-58.4; HARIHARGANJ-58.3; JAPLA-57.6; GARU-57; GOBINDPUR-54.4; CHANDRAPURA-53; DEOGHAR-52; LATEHAR-52; PATHARGAMA-48.2; PUTKI-45.4; HIRODIH DVC-42.6; MADHUPUR-42.2; GARHWA-40.8; HUNTERGANJ-40.4; PANCHET-40.4; MOHANPUR-39.2; GODDA-36.4; SHILAICHAK-36; TENUGHAT-35.8; SARATH-35.4; DHANBAD-35.2; BOKARO THERMAL-33.4; MANOHARPUR PHC-32; HIRANPUR-32; PANCHET DVC-31.6; FATEHPUR-31; GODDA KVK AWS-31;

➤ Observations recorded at 08:30 hrs. IST of 16-07-2025:

STATION NAME (*: KVK)	TEMPERATURE(°C)				RAINFALL (mm)		RELATIVE HUMIDITY(%)	
	Max. Past 24 Hrs.	Dep. From Normal	Min. Past 24 Hrs.	Dep. From Normal	Past 24 Hrs.	Since 01 st June, 2025	MaxPast 24 Hrs.	MinPast 24 Hrs.
MC RANCHI	29.2	-0.4	22.6	-0.3	012.2	924.0	95	72
MO JAMSHEDPUR	31.5	-1.1	25.7	+0.6	000.0	1099.9	92	72
MO DALTONGANJ	28.6	-3.3	23.1	-2.7	158.2	763.7	98	88
BOKARO-TH	28.2	-2.0	23.5	+0.3	033.4	685.5	95	0
CHAIBASA-PTO	32.0	+0.7	25.4	+0.2	000.0	718.9	77	77
KHUNTI*	29.7	-	24.9	-	000.5	-	-	-
LOHARDAGA*	28.1	-	23.4	-	000.0	-	-	-
GARHWA*	29.3	-	25.2	-	000.0	-	-	-
SARAIKELA*	33.3	-	25.8	-	000.0	-	-	-
GODDA*	28.9	-	25.8	-	031.0	-	-	-
LATEHAR *	22.1	-	21.0	-	034.0	-	-	-

➤ Sector wise Forecast for the state of Jharkhand (till morning of 23rd July, 2025):

Section-III Forecast for the State of Chhattisgarh (in morning of 20 July, 2025).

Day	Central (Hazaribagh, Koderma, Ramgarh, Bokaro, Dhanbad, Ranchi, Lohardaga, Gumla, Khunti)	South (East Singhbhum, West Singhbhum, Saraikella- Kharswan, Simdega)	NW (Garhwa, Chatra, Palamu, Latehar)	NE (Sahebganj, Pakur, Godda, Dumka, Deoghar, Jamtara, Giridih)
16.07.25	1. Light to moderate rain/thundershower most likely to occur at most places over the state. 2. No Large Change in maximum temperature during next 24 hrs. thereafter rise by (2-3)°C in subsequent 3 days.			
17.07.25	Light to moderate rain/thundershower most likely to occur at many places over the state.			
18.07.25	Light to moderate rain/thundershower likely to occur at few places over the state.			
19.07.25				
20.07.25				
Outlook for subsequent Two days				
21.07.25	Light to moderate rain/thundershower most likely to occur at many places over the state.			
22.07.25				

➤ Sector wise Warning for the state of Jharkhand (for next seven days):

Day	Central (Hazaribagh, Koderma, Ramgarh, Bokaro, Dhanbad, Ranchi, Lohardaga, Gumla, Khunti)	South (East Singhbhum, West Singhbhum, Saraikella- Kharswan, Simdega)	NW (Garhwa, Chatra, Palamu, Latehar)	NE (Sahebganj, Pakur, Godda, Dumka, Deoghar, Jamtara, Giridih)
16.07.25	Heavy Rainfall at Scattered places & Very Heavy rainfall at isolated places likely to occur over North-Western & North-Central parts of the state.			
	1. Heavy rainfall likely to occur at isolated places over Northern & Central parts of the state. 2. Thunderstorm/Lightning accompanied with gusty wind (max wind speed: 30-40 kmph) likely to occur at Isolated places over the state.			
17.07.25	Thunderstorm/Lightning likely to occur at isolated places over the state.			
18.07.25				
19.07.25				
20.07.25				
21.07.25	NIL			
22.07.25				

➤ Local Forecast for RANCHI & neighbourhood (for next five days):

Day	WEATHER FORECAST	Temperature(in°C)	
		Max.	Min.
16.07.25	Generally cloudy sky with moderate Rain.	28	23
17.07.25	Generally cloudy sky with few spells of Rain or thundershowers.	29	23
18.07.25	Generally cloudy sky with one or two spells of Rain or thundershowers.	30	23
19.07.25	Generally cloudy sky with one or two spells of Rain or thundershowers.	31	23
20.07.25	Generally cloudy sky with one or two spells of Rain or thundershowers.	31	23
Outlook for subsequent Two days			
21.07.25	Generally cloudy sky with Rain or Thundershowers.		
22.07.25	Generally cloudy sky with Rain or Thundershowers.		

➤ Rainfall statistics of Jharkhand for the period 01.06.2025 to 16.07.2025:

Excess :20% or more, Normal :+19% to -19%, Deficient :-20% to -59%, Scanty:-60% to -99%

S. NO.	DISRICTS	ACTUAL Rainfall (mm)	NORMAL Rainfall (mm)	DEPARTURE (%)
1.	BOKARO	575.5	304.3	89
2.	CHATRA	535.7	312.1	72
3.	DEOGHAR	324.8	342.6	-5
4.	DHANBAD	645.9	362.4	78
5.	DUMKA	557.2	366.4	52
6.	EAST SINGBHUM	985.7	386.6	155
7.	GARHWA	302.7	290.7	4
8.	GIRIDIH	487.4	339.1	44
9.	GODDA	264.9	319	-17
10.	GUMLA	514.6	370.7	39
11.	HAZARIBAG	502	356.6	41
12.	JAMTARA	605.4	381.6	59
13.	KHUNTI	661.1	377.3	75
14.	KODERMA	425.6	311.8	37
15.	LATEHAR	751.5	343.9	119
16.	LOHARDAGA	489	350.6	39
17.	PAKUR	360.7	422.8	-15
18.	PALAMU	540.6	258.2	109
19.	RAMGARH (HAZARIBAGH)	704.8	343.3	105
20.	RANCHI	816.6	361.3	126
21.	SAHIBGANJ	443	431.8	3
22.	SERAIKELA-KHARSAWAN	808.8	349.2	132
23.	SIMDEGA	742.1	445.5	67
24.	WEST SINGBHUM	655.9	339.5	93
	JHARKHAND	595.8	348.9	71

(Dr. Baburaj P.P.)
Scientist-D& Head
Meteorological Centre, Ranchi

Terms used for Description of temperatures

<u>24hr temperature changes</u>	<u>Temperature departures</u>
Marked fall (-4.1°C or less)	Markedly below normal (-5.1°C or less)
Appreciable fall (-2.1°C to -4.0°C)	Appreciably below normal (-3.1°C to -5.0°C)
No large change (-2.0°C to +2.0°C)	Below normal (-1.6°C to -3.0°C)
Appreciable rise (2.1°C to 4.0°C)	Normal (-1.5°C to 1.5°C)
Marked rise (4.1°C or more)	Above normal (1.6°C to 3.0°C)
	Appreciably above normal (3.1°C to 5.0°C)
	Markedly above normal (5.1°C or more)

LEGEND:

Distribution of rainfall		Probability of occurrence of the rainfall at places :		
% of rainfall stations	Category	Colour code for WARNING	Probabilistic Forecast	
76% or more	WS (Most)	WARNING (TAKE ACTION)	Unlikely	<25 %
51-75%	FWS (Many)	ALERT (BE PREPARED)	Likely	25 – 50 %
26-50%	SCT (Few)	WATCH (BE UPDATED)	Very Likely	50 – 75 %
Less than 25 %	ISOL	NO WARNING (NO ACTION)	Most Likely	> 75 %
0.0 mm in all the stations	DRY			
RA – Rain, TS – Thunder Shower, SQ – Squall				

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 $\geq 6.5^{\circ}\text{C}$
Warm Night	(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 $\geq 4.5^{\circ}\text{C}$ from normal. Heat Wave may be described provided maximum temperature $\geq 37^{\circ}\text{C}$
	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 $> 6.4^{\circ}\text{C}$.

Hot and Humid: When maximum temperatures remains 3°C above normal along with the above normal relative humidity.

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.
Squall	A strong wind that rises suddenly, lasts for at least 1 minute.
	Moderate: Wind speed 52-61 kmph
	Severe: Wind speed 62-87 kmph
	Very Severe: Wind speed > 87 kmph
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)