



GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCE
INDIA METEOROLOGICAL DEPARTMENT

METEOROLOGICAL CENTRE, RANCHI

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For

JHARKHAND

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In collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture Animal Husbandry & Co-operative
Govt. of Jharkhand

Meteorological Sub-Division of the state

As per IMD classification Jharkhand State consisting of twenty four districts is considered as one meteorological subdivision.

Agro Climatic Zones for the State of Jharkhand

S.No.	Agro climatic Zone	Districts	Agromet Field Unit(AMFU)
1	Central & Western Plateau Zone	Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega	Ranchi
2	Central and North Eastern Plateau Zone	Dumka, Sahebganj, Godda, Pakur, Deoghar, Giridih, Dhanbad, Jamtara, Koderma	Dumka
3	South Eastern Plateau Zone	West Singhbhum, East Singhbhum, Saraikela	Darisai



DISTRICT LEVEL WEATHER FORECAST

ISSUED ON: 23.05.2017

VALID FOR THE NEXT 5 DAYS

- **Summary of observations recorded at Ranchi, Jamshedpur, Daltonganj & Bokaro during 19.05.2017 to 23.05.2017**

PARAMETERS		Ranchi	Jamshedpur	Daltonganj	Bokaro	Chaibasa
Total rainfall (mm)		1.4	101.7	0.3	0.6	0
Max Temp range (°C)		40-42	40-42	43-44	38-43	40-42
Min Temp range(°C)		25-26	23-25	28-30	25-26	24-26
Cloud Coverage (octa)		3	4	2	2	2
Relative Humidity (%)		18-74	25-88	18-49	26-75	NA
Wind Direction/ Speed (kmph)	MORNING	SE	SE	N	NE	CALM
		10	2	2	4	0
	EVENING	SE	NE	N	N/A	CALM
		18	8	2	N/A	0

- **Realized Weather (during past 24 hrs.):** *Very Heavy Rainfall at isolated places & Light to moderate Rainfall occurred at isolated places with Thunderstorm & gusty wind at isolated places occurred and dry weather elsewhere over Jharkhand.*
- **Synoptic feature:** *The upper air cyclonic circulation over north Chhattisgarh & neighbourhood extending upto 0.9 km above mean sea level persists. The trough from this system to north coastal Andhra Pradesh across interior Odisha extending upto 0.9 Km above mean sea level also persists.*

➤ **Sector wise Forecast for the state of Jharkhand (till noon of 30th May, 2017):**

Day	Central (Bokaro, Gumla, Hazaribag, Khunti, Ramgarh & Ranchi)	South (Chaibasa, <i>Jamshedpur</i> , Simdega & Saraikela)	NW (Chatara, Garhwa, Koderma, Latehar, Lohardaga & <i>Palamu</i>)	NE (Deoghar, Dhanbad, Dumka, Giridih, Godda, Jamtara, Pakur & Sahebganj)
23.05.17	<i>ISOL RA/TS likely.</i>	<i>ISOL RA/TS likely.</i>	<i>ISOL RA/TS likely.</i>	<i>ISOL RA/TS likely.</i>
24.05.17				
25.05.17				
26.05.17				
27.05.17	<i>SCT RA/TS likely.</i>	<i>SCT RA/TS likely.</i>		<i>SCT RA/TS likely.</i>
Outlook for subsequent Two days			<i>No large change</i>	

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

Day	Central (Bokaro, Gumla, Hazaribag, Khunti, Ramgarh & <i>Ranchi</i>)	South (Chaibasa, <i>Jamshedpur</i> , Simdega & Saraikela)	NW (Chatara, Garhwa, Koderma, Latehar, Lohardaga & <i>Palamu</i>)	NE (Deoghar, Dhanbad, Dumka, Giridih, Godda, Jamtara, Pakur & Sahebganj)
23.05.17	<i>ISOL Thunderstorm with gusty winds likely.</i>			
24.05.17	<i>ISOL Thunderstorm with gusty winds likely.</i>			
25.05.17	<i>NIL</i>			
26.05.17				
27.05.17				

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

Day	Weather	Temperature (in °C)	
		Max.	Min.
23.05.17	<i>Partly cloudy sky with possibility of Thundery development.</i>	40	26
24.05.17	<i>Partly cloudy sky with possibility of Thundery development.</i>	41	26
25.05.17	<i>Partly cloudy sky with possibility of Rain & Thundershowers.</i>	41	26
26.05.17	<i>Partly cloudy sky with possibility of Rain & Thundershowers.</i>	40	26
27.05.17	<i>Partly cloudy sky with possibility of Rain & Thundershowers.</i>	40	26

WEATHER FORECAST

AMFU :RANCHI (Districts: Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega)

DISTRICTS		FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		24.05.17	25.05.17	26.05.17	27.05.17	28.05.17
	PARAMETERS					
BOKARO	Rainfall (mm)	0	0	0	0	6
	Max Temperature (°C)	40	41	41	40	39
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	2	3	2	2	3
	Max Relative Humidity (%)	52	44	50	53	70
	Min Relative Humidity (%)	16	17	17	19	21
	Wind speed (kmph)	10	12	9	15	13
	Wind direction (deg)	215	220	190	185	180
HAZARIBAGH	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	41	39	40	40	41
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	2	2	2	2	3
	Max Relative Humidity (%)	48	41	47	47	61
	Min Relative Humidity (%)	14	15	12	15	17
	Wind speed (kmph)	9	10	10	15	17
	Wind direction (deg)	180	225	195	180	170
RAMGARH	Rainfall (mm)	0	0	0	0	3
	Max Temperature (°C)	41	40	40	40	40
	Min Temperature (°C)	25	25	25	25	24
	Total cloud cover (octa)	3	3	2	3	3
	Max Relative Humidity (%)	51	47	51	52	67
	Min Relative Humidity (%)	15	17	13	17	19
	Wind speed (kmph)	9	10	10	14	14
	Wind direction (deg)	210	225	205	190	190
CHATRA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	42	40	40	40	41
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	3	2	2	3	2
	Max Relative Humidity (%)	41	40	48	46	55
	Min Relative Humidity (%)	13	13	11	12	15
	Wind speed (kmph)	8	9	11	14	17
	Wind direction (deg)	185	220	205	185	175
RANCHI	Rainfall (mm)	0	0	0	0	6
	Max Temperature (°C)	41	41	40	40	39
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	3	4	2	4	5
	Max Relative Humidity (%)	55	53	56	57	73
	Min Relative Humidity (%)	16	20	15	18	20
	Wind speed (kmph)	8	10	9	12	14
	Wind direction (deg)	210	230	210	195	200
KHUNTI	Rainfall (mm)	0	0	0	0	4
	Max Temperature (°C)	40	39	39	39	38
	Min Temperature (°C)	25	25	25	24	23
	Total cloud cover (octa)	3	4	2	2	2
	Max Relative Humidity (%)	63	61	62	63	80
	Min Relative Humidity (%)	17	22	18	20	23
	Wind speed (kmph)	6	9	8	10	11
	Wind direction (deg)	205	220	205	190	200

AMFU :RANCHI continued ...

DISTRICTS		FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		24.05.17	25.05.17	26.05.17	27.05.17	28.05.17
PARAMETERS						
GUMLA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	40	39	39	39	38
	Min Temperature (°C)	25	25	25	24	23
	Total cloud cover (octa)	3	4	2	3	2
	Max Relative Humidity (%)	57	59	62	61	74
	Min Relative Humidity (%)	16	21	15	18	20
	Wind speed (kmph)	5	7	8	9	11
	Wind direction (deg)	195	240	210	200	195
SIMDEGA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	40	39	39	39	38
	Min Temperature (°C)	25	25	25	24	24
	Total cloud cover (octa)	3	4	3	3	2
	Max Relative Humidity (%)	66	64	67	67	77
	Min Relative Humidity (%)	18	22	18	19	22
	Wind speed (kmph)	4	5	6	7	7
	Wind direction (deg)	170	235	190	185	175
LOHARDEGA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	41	40	40	40	40
	Min Temperature (°C)	26	25	26	26	25
	Total cloud cover (octa)	3	3	2	3	2
	Max Relative Humidity (%)	49	52	57	55	66
	Min Relative Humidity (%)	15	18	13	15	18
	Wind speed (kmph)	6	8	9	12	13
	Wind direction (deg)	205	235	210	205	195
PALAMU	Rainfall (mm)	0	0	0	2	2
	Max Temperature (°C)	45	44	44	45	43
	Min Temperature (°C)	30	30	30	31	30
	Total cloud cover (octa)	4	2	2	3	4
	Max Relative Humidity (%)	30	36	44	39	47
	Min Relative Humidity (%)	11	11	11	10	13
	Wind speed (kmph)	7	8	9	12	12
	Wind direction (deg)	215	215	195	200	180
GARHWA	Rainfall (mm)	0	0	0	2	2
	Max Temperature (°C)	45	44	44	45	43
	Min Temperature (°C)	30	30	30	31	30
	Total cloud cover (octa)	4	2	2	3	4
	Max Relative Humidity (%)	27	35	41	38	45
	Min Relative Humidity (%)	11	11	11	10	12
	Wind speed (kmph)	5	8	8	12	11
	Wind direction (deg)	225	210	190	205	185
LATEHAR	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	41	40	40	40	40
	Min Temperature (°C)	26	25	26	26	25
	Total cloud cover (octa)	4	3	2	3	2
	Max Relative Humidity (%)	39	46	52	49	57
	Min Relative Humidity (%)	13	14	12	12	15
	Wind speed (kmph)	6	8	9	12	12
	Wind direction (deg)	205	225	200	205	190

AMFU :DUMKA (Districts: Dumka, Sahebganj, Godda, Pakur, Deoghar, Giridih, Dhanbad, Jamtara, Koderma)

DISTRICTS		FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		24.05.17	25.05.17	26.05.17	27.05.17	28.05.17
	PARAMETERS					
SAHEBGANJ	Rainfall (mm)	0	0	0	0	8
	Max Temperature (°C)	40	41	42	41	40
	Min Temperature (°C)	27	28	28	27	27
	Total cloud cover (octa)	2	2	1	1	3
	Max Relative Humidity (%)	69	56	61	64	71
	Min Relative Humidity (%)	22	21	22	24	30
	Wind speed (kmph)	7	11	14	13	12
	Wind direction (deg)	120	145	150	150	105
GODDA	Rainfall (mm)	0	0	0	0	11
	Max Temperature (°C)	39	40	41	40	39
	Min Temperature (°C)	27	27	26	26	26
	Total cloud cover (octa)	2	2	2	2	3
	Max Relative Humidity (%)	67	50	59	61	70
	Min Relative Humidity (%)	18	18	18	23	26
	Wind speed (kmph)	7	10	16	14	14
	Wind direction (deg)	125	150	155	155	120
PAKAUR	Rainfall (mm)	0	0	0	0	20
	Max Temperature (°C)	39	40	39	40	39
	Min Temperature (°C)	26	27	26	26	25
	Total cloud cover (octa)	2	2	1	2	3
	Max Relative Humidity (%)	63	54	61	65	72
	Min Relative Humidity (%)	20	20	20	24	27
	Wind speed (kmph)	9	13	16	14	14
	Wind direction (deg)	155	165	160	165	130
DUMKA	Rainfall (mm)	0	0	0	0	20
	Max Temperature (°C)	40	41	41	40	39
	Min Temperature (°C)	26	27	27	26	25
	Total cloud cover (octa)	3	2	3	3	4
	Max Relative Humidity (%)	59	51	60	62	74
	Min Relative Humidity (%)	18	18	20	24	26
	Wind speed (kmph)	10	13	17	15	17
	Wind direction (deg)	180	171	156	168	141
DEVGHAR	Rainfall (mm)	0	0	0	0	8
	Max Temperature (°C)	40	41	41	40	39
	Min Temperature (°C)	26	27	27	26	25
	Total cloud cover (octa)	2	2	2	2	3
	Max Relative Humidity (%)	59	45	54	55	71
	Min Relative Humidity (%)	16	16	17	22	23
	Wind speed (kmph)	8	10	15	16	17
	Wind direction (deg)	165	180	160	160	140
GIRIDH	Rainfall (mm)	0	0	0	0	5
	Max Temperature (°C)	44	44	43	43	42
	Min Temperature (°C)	29	29	28	28	28
	Total cloud cover (octa)	2	2	2	2	3
	Max Relative Humidity (%)	54	40	45	48	65
	Min Relative Humidity (%)	15	15	13	18	20
	Wind speed (kmph)	9	9	11	15	16
	Wind direction (deg)	160	215	175	165	145

AMFU : DUMKA continued ...

DISTRICTS		FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		24.05.17	25.05.17	26.05.17	27.05.17	28.05.17
	PARAMETERS					
DHANBAD	Rainfall (mm)	0	0	0	0	20
	Max Temperature (°C)	39	39	38	39	39
	Min Temperature (°C)	26	26	24	24	23
	Total cloud cover (octa)	3	2	1	2	3
	Max Relative Humidity (%)	56	52	62	63	76
	Min Relative Humidity (%)	18	19	24	25	26
	Wind speed (kmph)	12	14	16	16	18
	Wind direction (deg)	205	180	155	175	155
JAMTARA	Rainfall (mm)	0	0	0	0	15
	Max Temperature (°C)	39	39	39	39	40
	Min Temperature (°C)	26	26	25	24	23
	Total cloud cover (octa)	3	2	1	3	3
	Max Relative Humidity (%)	52	48	57	58	75
	Min Relative Humidity (%)	17	17	20	23	24
	Wind speed (kmph)	11	13	15	16	17
	Wind direction (deg)	215	195	160	180	155
KODERMA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (°C)	41	40	41	42	42
	Min Temperature (°C)	27	27	27	27	26
	Total cloud cover (octa)	2	2	2	2	2
	Max Relative Humidity (%)	49	35	41	44	58
	Min Relative Humidity (%)	14	14	12	15	17
	Wind speed (kmph)	8	8	10	13	18
	Wind direction (deg)	135	225	185	155	135

DISTRICTS		FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		24.05.17	25.05.17	26.05.17	27.05.17	28.05.17
	PARAMETERS					
WEST-SINGBHUM	Rainfall (mm)	0	0	0	3	7
	Max Temperature (°C)	41	41	40	40	39
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	2	3	2	2	3
	Max Relative Humidity (%)	68	62	64	69	82
	Min Relative Humidity (%)	18	19	19	21	23
	Wind speed (kmph)	8	10	9	9	10
	Wind direction (deg)	190	200	190	180	190
EAST-SINGBHUM	Rainfall (mm)	0	0	0	0	7
	Max Temperature (°C)	41	41	40	40	39
	Min Temperature (°C)	26	26	26	26	25
	Total cloud cover (octa)	2	3	2	2	3
	Max Relative Humidity (%)	59	52	61	66	75
	Min Relative Humidity (%)	18	20	32	24	25
	Wind speed (kmph)	10	15	10	10	14
	Wind direction (deg)	195	195	175	175	180
SARAIKELA	Rainfall (mm)	0	0	0	0	9
	Max Temperature (°C)	40	40	39	39	39
	Min Temperature (°C)	25	26	25	24	24
	Total cloud cover (octa)	2	3	2	2	3
	Max Relative Humidity (%)	60	54	56	63	77
	Min Relative Humidity (%)	17	19	18	20	21
	Wind speed (kmph)	9	12	9	9	11
	Wind direction (deg)	205	215	195	180	195

B. AGRO-ADVISORIES (Based on the weather forecast) :-

AMFU : Ranchi, Dumka & Darisai (i.e. for all Districts of Jharkhand)

Summer rice: Timely transplanted crop is at grain filling stage, and this stage is sensitive of moisture stress. Hence, maintain the water level in the field.

Ginger/ Termeric/ Elephant foot Yam: Farmers, who are going to cultivate the crop of ginger, turmeric or elephant foot yam (Oal) are advised to prepare the land and sow the seed immediately. Before sowing, a light irrigation is needed in case of deficient soil moisture. After sowing, mulch the field with straw / leaves etc. which not only reduces weeds but also conserve soil moisture. Select one of the improved variety of Ginger: Bardhwan, Suruchi, Suprabha, Nadiya, for Turmeric: Rajendra Sonia and for Elephant foot yam: Gajendra, Vidhan, Kusum, Sri Padma. Before sowing, seeds must be treated with fungicide. For seed treatment 2 gm of Bavistin mix in 1 litre of water and seeds may be soaked for one hour in the solution.

Green Gram : To conserve soil moisture for a longer period, interculture operation (weeding) must be done. Timely sown crops are at flowering stage. Attack of Thrips at this stage is not uncommon which causes dropping of flowers from the plant. If such symptoms appear, spray the insecticide like Trizophos or Profenphos @ 1 ml. per liter of water.

Vegetable: Irrigate different vegetables at the regular interval. Before irrigation, weeding is essential.

Cattle: There is possibility of attack of Heat stroke in animals due to prevailing high day temperature. Hence, animals should be protected against intense heat and should not allow them to expose in sunlight during noon and avail fresh and plenty of water for drinking. If the animals suffering with heat stroke, they should be allow to bath, keep ice cube on their nose and head, and in extreme case, the medicine Avil should be injected @ 10 ml for adult, 5 ml for kids and 2 ml for goat.

Green Manuring: To increase the fertility of Rice field, farmers may sow the green manure crops like Sunhamp and Dhaincha. The seed rate for both is 20-25 kg per acre.

Fruit trees: Select the suitable place for plantation of different fruit seedlings and prepare/dug the pit and maintain the distance between pit as per requirement of fruit tree.

Miscellaneous: The fallow field should be ploughed without planking. Open soil helps in controlling different pests and weeds and also conserve moisture.

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Forwarded to: Director Agriculture, Ranchi, Jharkhand /Director AIR/Director D.D, Ranchi/State Manager, IKSL Jharkhand/ Secretary Disaster Management, Jharkhand.

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