

AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 30th January '2019 to 03rd February '2019

AGROCLIMATIC REGIONS OF WEST BENGAL

-  HIMALAYAN HILLY REGION
-  TERAI AND TEESTA ALLUVIUM
-  GANGETIC ALLUVIUM
-  VINDHYA ALLUVIUM
-  RED LATERITIC
-  COASTAL SALINE



Issued on
Tuesday, 29th January '2019

ISSUED BY

Regional Meteorological Centre, Alipore, Kolkata-27 in collaboration with State Agricultural Universities and state Agricultural Department.

Agroclimatic zones of the state

Sl. No.	Agroclimatic Zone	Districts	Agromet Field Unit (AMFU) Location
1	Northern Hill Zone	Darjeeling	Kalimpong
2	Terai-Teesta Alluvial Zone	Jalpaiguri, Alipurduar, Coochbehar and Uttar Dinajpur.	Pundibari
3	Gangetic Alluvial Zone	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	Vindhyan Alluvial Zone	Dakhin Dinajpur, Malda	Majhian
5	Costal Saline Zone	South 24 Parganas and Purba Midnapore	Kakdeep
6	Undulating Red and Laterite Zone	Purulia, Bankura, Paschim Midnapore, Jhargram and Birbhum	Kharagpur

Met sub-divisions of the state

For Meteorological purposes, the state has been divided into two sub-divisions (IMD Classification):

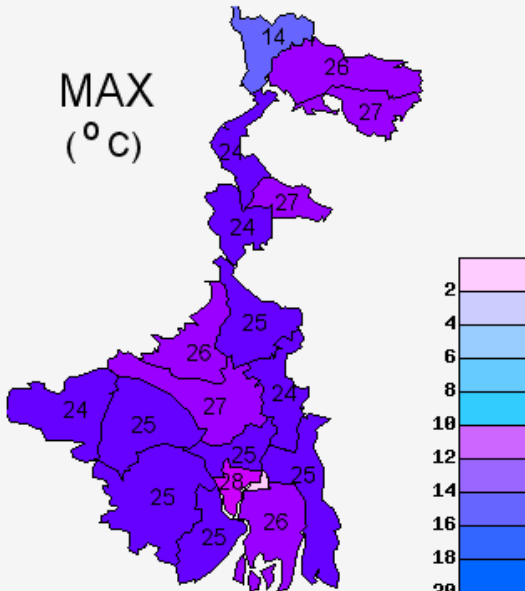
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

Sub-Himalayan West Bengal consists of Darjeeling, Coochbehar, Alipurduar, Jalpaiguri, Dakhin Dinajpur, Uttar Dinajpur.

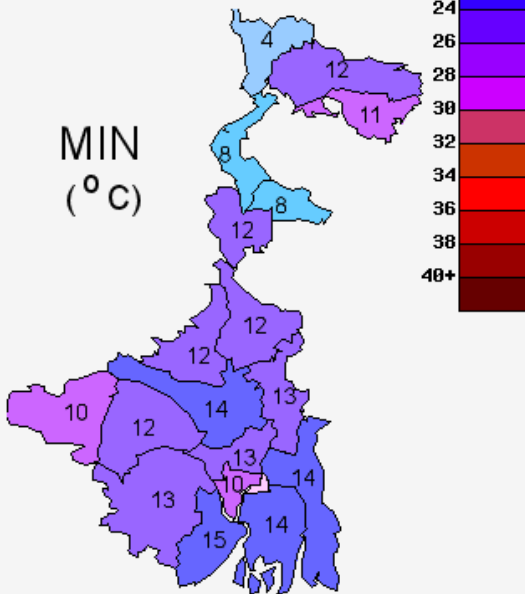
DAY 1 FORECAST

Valid up to :Wednesday 30th January 2019,0830 hrs IST

MAX
(°C)

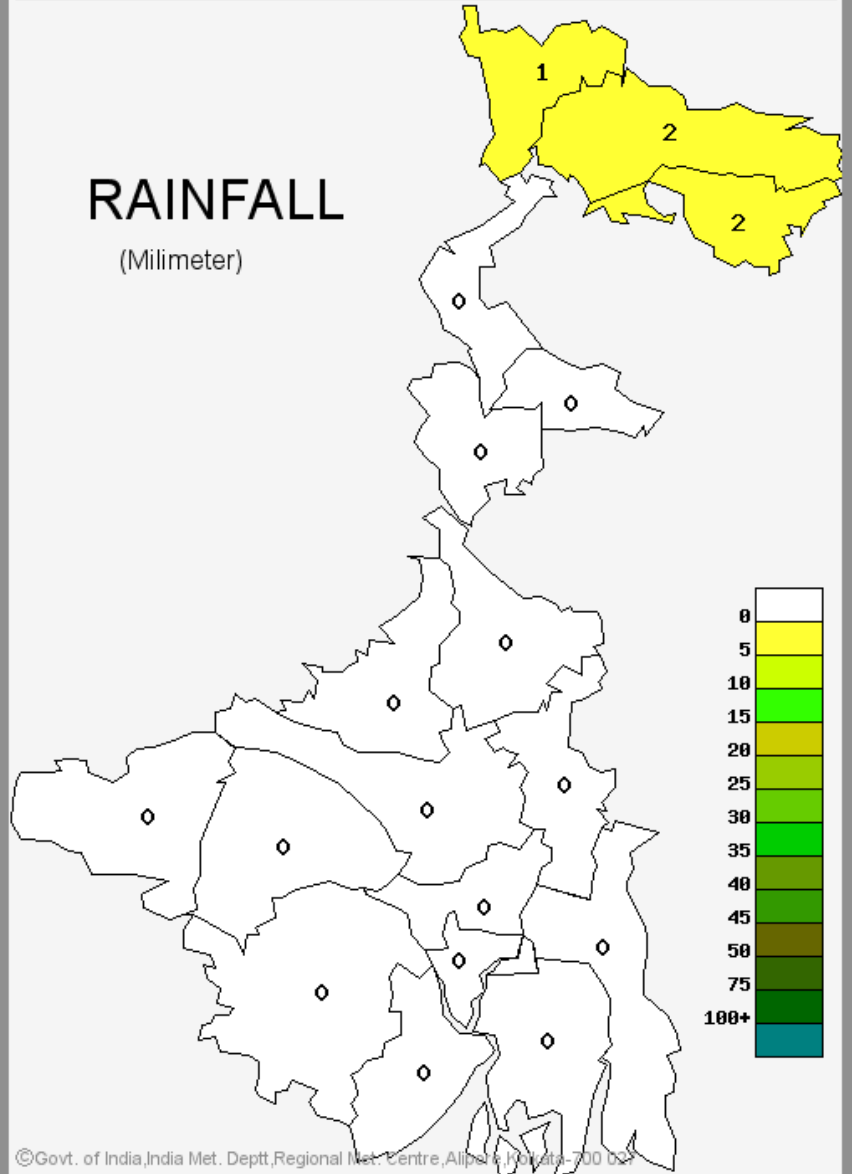


MIN
(°C)



RAINFALL

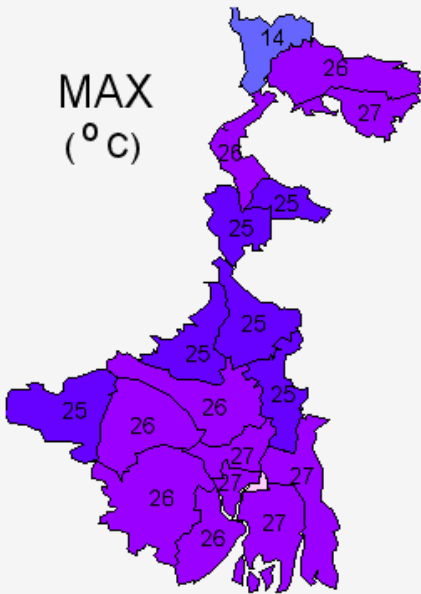
(Milimeter)



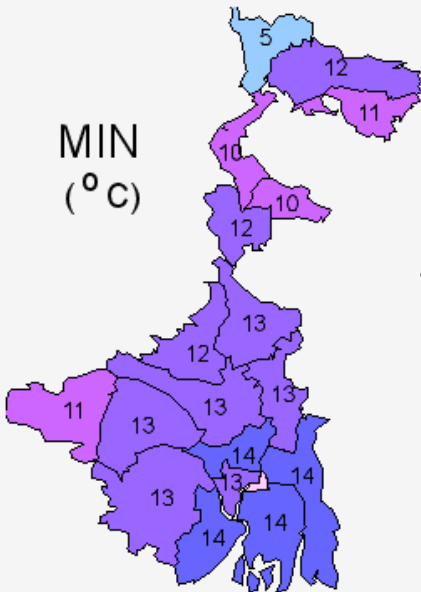
DAY 3 FORECAST

Valid up to :Friday 01st February 2019,0830 hrs IST

MAX
(°C)

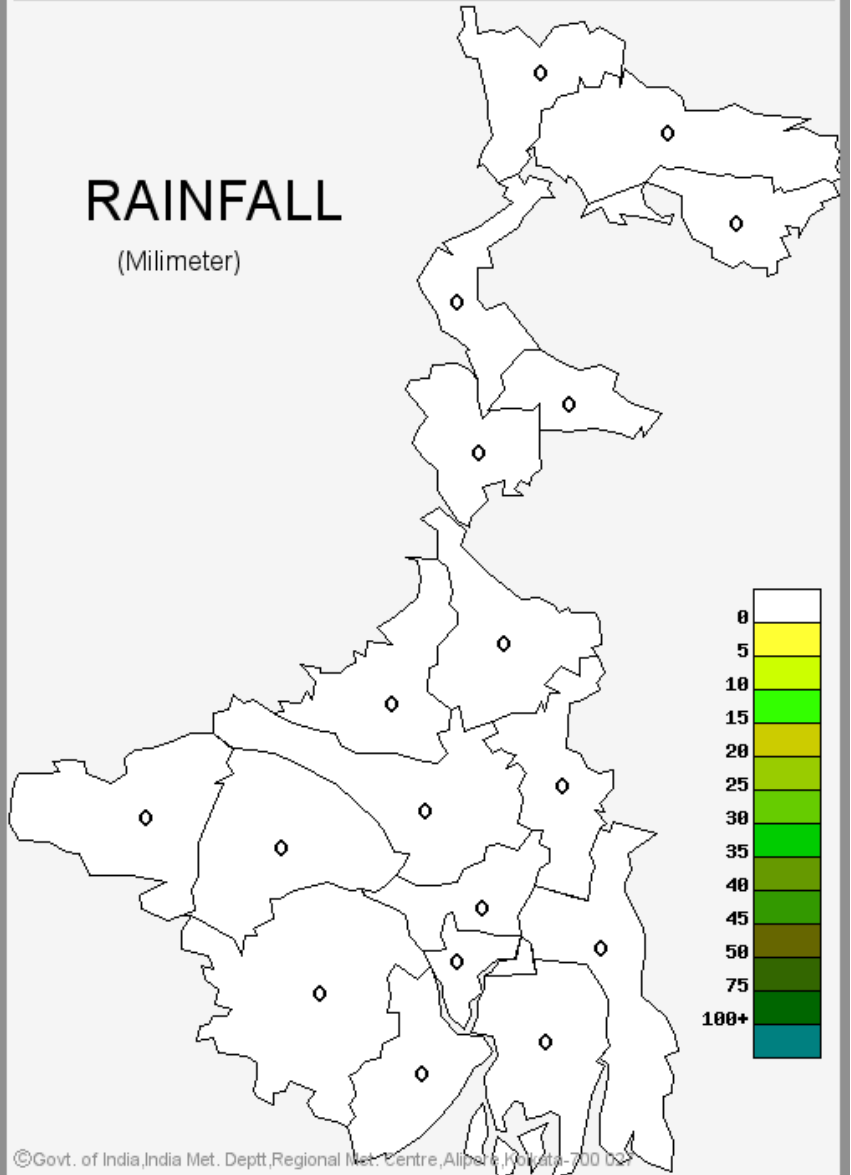


MIN
(°C)



RAINFALL

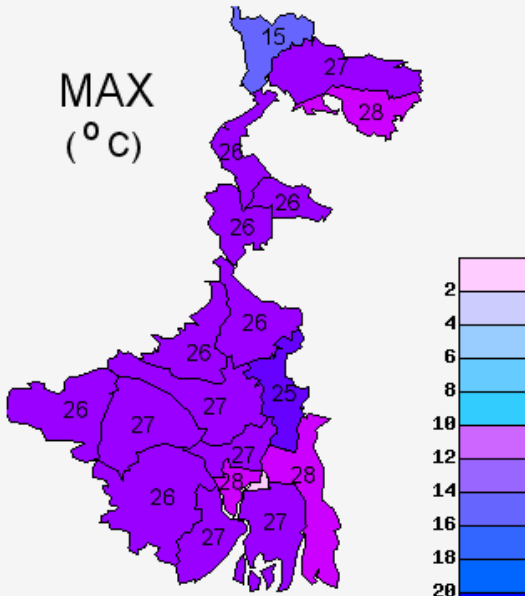
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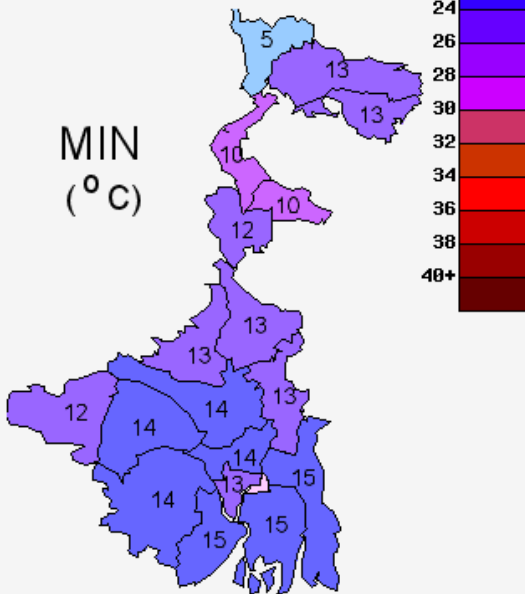
DAY 4 FORECAST

Valid up to :Saturday 02nd February 2019,0830 hrs IST

MAX
(°C)

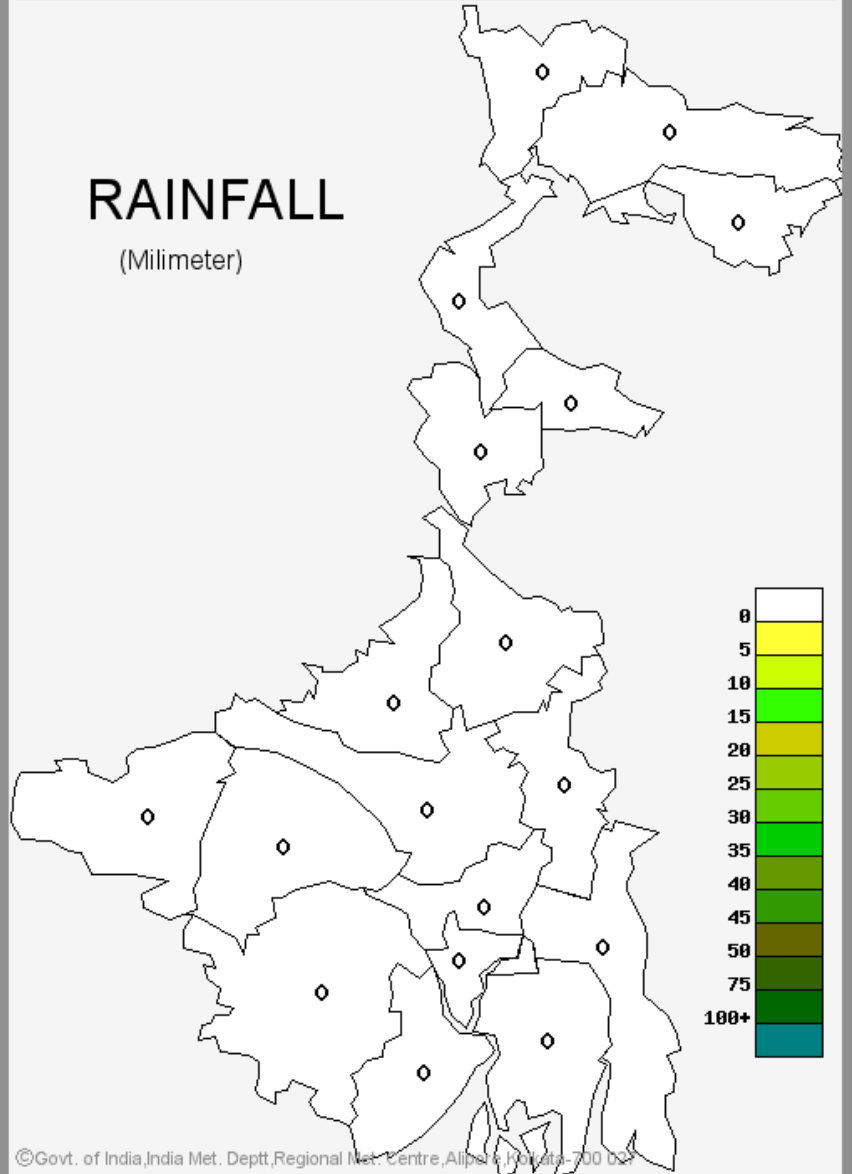


MIN
(°C)



RAINFALL

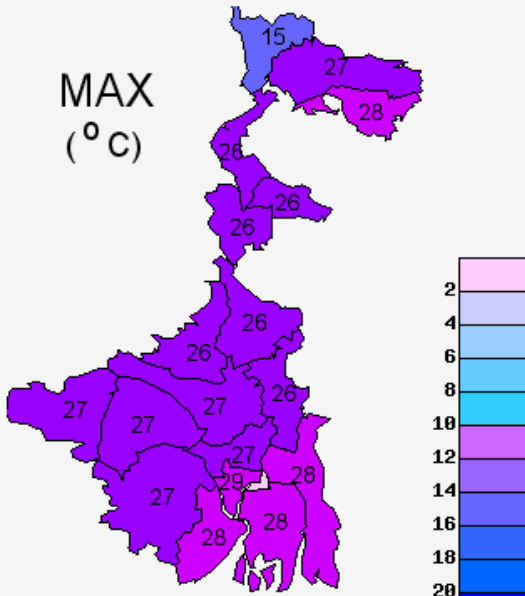
(Milimeter)



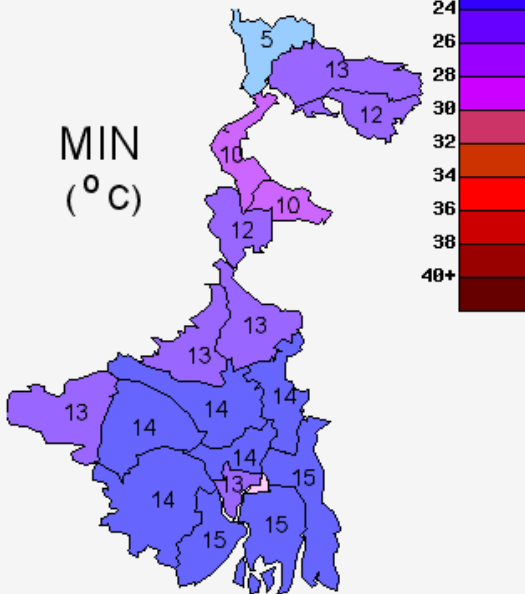
DAY 5 FORECAST

Valid up to : Sunday 03rd February 2019, 0830 hrs IST

MAX
(°C)

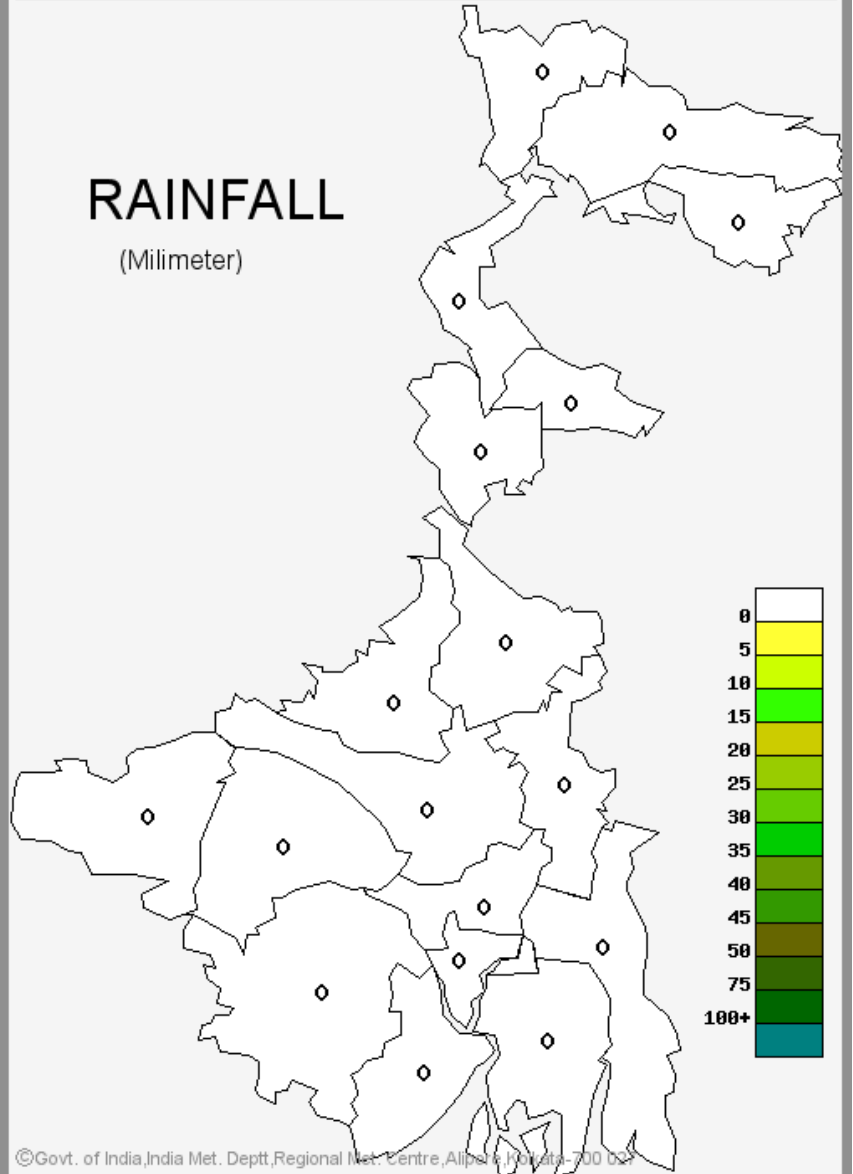


MIN
(°C)



RAINFALL

(Milimeter)



Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 25/01/19 to 28/01/19

District level Weather Forecast for different agroclimatic zones for the period 30/01/19 to 03/02/19

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	--	15-18	2-8	40-95
Saturday	0.0			
Sunday	0.0			
Monday	--			

DARJEELING

Rainfall	Possibilities of very light rainfall on 30 th January and rest of the day's no rainfall have been forecasted. In coming five days total rainfall of 1.0 mm is expected.
Cloud Cover	Possibilities of clear sky on 30 th January and 3 rd February, mainly clear sky on 31 st January and rest of the day's mainly cloudy sky are expected.
Max. Temp.	Maximum temperature is expected to be around 14.0 to 15.0°C.
Min. Temp.	Minimum temperature is expected to be around 4.0 to 5.0°C.
Max. RH	Maximum relative humidity is expected to be around 33 - 54 %.
Min. RH	Minimum relative humidity is expected to be around 17 - 24 %.
Wind	Wind mainly will blow from southerly on 3 rd February and rest of the days wind mainly will blow from south-easterly direction. In coming five days wind mainly will blow with a speed of 6.7 - 8.5 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	10-13	65-90
Saturday	0.0			
Sunday	0.1			
Monday	0.0			

COOCHBEHAR

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JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	13-15	55-90
Saturday	0.0			
Sunday	0.1			
Monday	0.0			

JALPAIGURI

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NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-24	9-11	74-87
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH DINAJPUR

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Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	15-16	70-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BURDWAN**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-26	13-14	40-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

MURSHIDABAD**NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	--	13-16	75-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NADIA**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	23-28	15-17	40-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOOGHLY**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	--	12-12	70-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

HOWRAH

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-29	15-19	55-80
Saturday	0.0			
Sunday	0.0			
Monday	0.1			

NORTH 24 PGS**Vindhyan Alluvial Zone****DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	--	9-10	65-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

DAKSHIN DINAJPUR

- Possibility of mainly clear on 30th January, clear sky on 31st January & 3rd February, partly cloudy on 1st February and mainly cloudy on 2nd February.
- There seems to be possibility of no rainfall on 30th January to 3rd February.
- Wind from Westerly, North-easterly, Northerly, South-easterly & Easterly direction with an average speed of 7.7-11.7 Km/hr. is expected.
- Maximum temperature is expected to be around 24.0-26.0^oC and minimum temperature is expected to be 08.0-10.0^oC.
- Maximum and minimum relative humidity is expected to be 44-67% and 23-31% respectively.

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.1	25-28	15-17	55-90
Saturday	0.0			
Sunday	0.1			
Monday	0.0			

MALDA

- Possibility of clear sky on 30th, 31st January & 3rd February, partly cloudy on 1st February and mainly cloudy sky on 2nd February.
- There seems to be possibility of no rainfall on 30th January to 3rd February.
- Wind from North-westerly, South-westerly & Westerly direction with an average speed of 9.2-14.7 Km/hr. is expected.
- Maximum temperature is expected to be around 24.0-26.0^oC and minimum temperature is expected to be 11.0-12.0^oC.
- Maximum and minimum relative humidity is expected to be 42-65% and 22-29% respectively.

Coastal Saline Zone**PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	22-30	11-19	55-95
Saturday	0.0			
Sunday	0.0			
Monday	0.1			

PURBA MIDNAPUR

- No rain fall is predicted in next five days.
- Sky will be clear in next five days.
- Wind speed will be 8.8-16.0 km/sec. and the predominant wind direction will be South-westerly to Northerly.
- Maximum temperature is expected to be around 26.0^oC -29.0^oC and minimum temperature is likely to be around 12.0^oC-15.0^oC.
- Maximum and minimum relative humidity will be in the range of 40% -47% and 23% -34%.

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-31	15-19	50-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

SOUTH 24-PGS

- No rain fall is predicted in next five days.
- Sky will be clear in next five days.
- Wind speed will be 8.8-16.0km/sec. and the predominant wind direction will be Northerly.
- Maximum temperature is expected to be around 27.0⁰C -29.0⁰C and minimum temperature is likely to be around 13.0⁰C-16.0⁰C.
- Maximum and minimum relative humidity will be in the range of 40% -47% and 23% -34%.
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Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	24-27	15-17	55-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PASCHIM MIDNAPORE

- No rainfall for the coming five days and partially clear sky will be present for the same.
- Predominant wind direction will be Northeasterly. Wind with a speed of 6.2-12.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 38-52 % and minimum will be 17-20%
- Maximum temperature will be 24-27°C and minimum will be 10-13°C.
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BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	25-29	14-17	55-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BANKURA

- No rainfall for the coming five days and partially clear sky will be present for the same.
- Predominant wind direction will be Northeasterly. Wind with a speed of 7.3-13.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 39-52 % and minimum will be 18-22%
- Maximum temperature will be 24-27°C and minimum will be 11-14°C.
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PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-26	13-14	55-90
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

PURULIA

- No rainfall for the coming five days and partially clear sky will be present for the same.
- Predominant wind direction will be Northeasterly. Wind with a speed of 6.2-12.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 38-52 % and minimum will be 17-20%
- Maximum temperature will be 24-27°C and minimum will be 10-13°C.
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BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	26-28	14-15	50-85
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

BIRBHUM

- No rainfall for the coming five days and partially clear sky will be present for the same.
- Predominant wind direction will be Northeasterly. Wind with a speed of 8.4-13.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 46-56 % and minimum will be 18-25 %
- Maximum temperature will be 25-26°C and minimum will be 11-13°C.
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Andaman & Nicobar Islands

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	28-31	23-26	60-95
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NORTH MIDDLE ANDAMAN

Partly cloudy weather is likely to occur during next five days. In North and Middle Andaman no rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 30.0 to 31.0 °C with minimum temperature of 23.0 to 24 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 73 to 78 % and 64 to 69 % respectively in North and Middle Andaman. Wind speed of 15.1 to 23.3 km/h is expected from North Easterly direction.

SOUTH ANDAMAN.

- Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In South Andaman 15 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 30.0 to 31.0 °C with minimum temperature of 24 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 75 to 79 %, and 64 to 72 % respectively in South Andaman. Wind speed of 17.8 to 25.0 km/h is expected from North Easterly direction.

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Friday	0.0	27-29	24-24	55-80
Saturday	0.0			
Sunday	0.0			
Monday	0.0			

NICOBAR

- Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In Nicobar Islands 70.0 mm of rainfall is expected during this period. The maximum temperature will be 29 to 30.0 °C with minimum temperature of 27 to 28 °C, whereas the maximum and minimum relative humidity is expected to be 79 to 82 %, and 75 to 79 %, respectively in Nicobar Islands. Wind speed of 19.9 to 27.1 km/h is expected from North Easterly direction.

Part II: Agroclimatic zonewise Agricultural/Agro meteorological Advisories

West Bengal

Northern Hill Zone

MAJOR CROPS	STAGE	PEST & DISEASES	ADVISORY
General	-	-	In coming five days very light rainfall on 30 th January and rest of the day's no rainfall has been forecasted so, irrigate the crops as per the requirement.

Coastal Saline Zone

Crop	Stage	Disease pest	Advisory
Boro paddy			--Apply basal fertilizer viz.urea@9kg/bigha , SSP@54kg/bigha and MOP@11kg/bigha --Start transplanting in the main field within 2-3 days --Follow a spacing of 20cm X 20cm and transplant the seedlings at 2cm depth --four to five seedlings transplant per hill
Potato	Tuber formation	Late blight	--Where plants found already attacked apply a mixture of Thiamethoxin and Mancozeb@ 3g/liter of water or a mixture of Diomithomorf and Mancozeb @3g/liter of water --Apply all the medicine alternatively --Wet the plant fully by insecticide --Stop irrigation and urea application
Lathyrus	Start flowering	Yellowing of plant due to fog	--Apply Diethane-M-45 @2.5g/liter of water --Apply 2% DAP for better flowering
Marigold	Flowering	Rotting due to morning fog and low temperature	--Destroy the rotten flower --Pluck the fresh flower as possible and store them in cold storage as there is a chance of light rain
Potato	Tuber formation	Late blight	--Where plants found already attacked apply a mixture of Thiamethoxin and Mancozeb@ 3g/liter of water or a mixture of Diomithomorf and Mancozeb @3g/liter of water --Apply all the medicine alternatively --Wet the plant fully by insecticide --Stop irrigation and urea application
Sunflower			--Select some seed variety like Modern Surya (90-95days), Pack(104days)KBSH(90-95 days) --Sow well filled plump seed @800g/bigha --Before sowing treat the seed by soaking for 10 hours with Thirum/Captan@3g/kg of seed to ensure germination --Spacing should be maintained as 60cm X 30cm for hybrid variety and 45cm X 30cm for long duration variety --Apply basal dose of fertilizer as 43kg urea per bigha, 62kg SSP per bigha and 83kg MOP per bigha

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	There seems to be possibility of no rainfall on 30 th January to 3 rd February. Irrigation & Spray should be done as per requirement.
Lentil	Growth stage	--	Repeat the dose of DAP and Boron @ 20gram/liter and 2g/liter of water respectively at the age of 45 days of lentil.
Winter Vegetables	Vegetative	Pest	Management of winter vegetable pest at early vegetative stage sprays Chlorpyrifos 50% + Cypermethin 5% @ 1.5 ml/liter of water.
Mustard	Growth	Aphid	Management of mustard aphid sprays Dinoteforun 20% S G @ 0.5gram/liter of water.
Mustard	Growth	Alternaria Blight	To control Alternaria blight of mustard spray Mancozeb (2.5g/liter of water) or Iprodione @ 1g/liter of water.
Vegetables	Growth	Sucking pest	Management of sucking pest on vegetables crops spray dadecei @ 1.5g/liter of water with sticker @ 0.5ml/liter.
Cattle	--	--	Irrigation of fodder crops of Alfalfa and Berseem clover should be carried out every 20-30 days and for the oat crop every 20-22 days.

Fishery	Pond preparation	--	Pond preparation should be done through cultivation of Dhaincha @ 1-1.5kh/bigha for 30-45 days for seasonal & new pond.
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Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
Boro rice	Nursery	Yellowing of Seedlings	Farmers are advised to apply water to the nursery bed at night and draining the water in the next morning to protect the seedlings from being yellowish.
	Transplanting	---	Farmers are advised to complete the transplanting operation by end of this week. At the time of final puddling, apply fertilizer 14.7 kg Urea, 42 kg SSP and 13.3 kg MOP per bigha as a basal dose. Maintain the water level upto 2 cm in the field.
Wheat	Late jointing	Rust and blight diseases	The weather condition may favours yellow rust and blight disease. Spray Mancozeb @ 2.5-3 ml/lit of water at clear weather condition.
Potato	Tuber initiation	Mite and thrips	Apply Acephate-75%WP @ 0.75g/lit of water at clear weather condition
Mustard	Pod initiation	Aphids	Spray Imidacloprid @1ml/1.5lit of water at clear weather condition.
Fishery	Fishery Management: 1. Apply Lime (Calcium Carbonate) depending on water pH. Lime should be broadcasted in split doses. 2. Do health check-up of fish by periodical netting. 3. Diseased fish should be isolated from main stock and should be treated with potassium permanganate and sodium chloride based on the severity of infestation. Keep the pH of pond water between 7.5-8.		
General	As per NDVI map the district has moderate crop coverage and is mildly dry in condition. Give light irrigation to the standing crops if necessary		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Vegetative	<ul style="list-style-type: none"> Do soil application of Pseudomonas and Trichoderma @ 2.5 kg/ha in bhendi.
Vegetable	All	<ul style="list-style-type: none"> Spray 3 % Neem oil to control caterpillar in leafy vegetables as the weather is conducive, for the growth of such pest.
Poultry	All	<ul style="list-style-type: none"> Provide cool drinking water with electrolyte to poultry birds to reduce heat stress.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Vegetative	<ul style="list-style-type: none"> Do soil application of Pseudomonas and Trichoderma @ 2.5 kg/ha in bhendi.
Vegetable	All	<ul style="list-style-type: none"> Spray 3 % Neem oil to control caterpillar in leafy vegetables as the weather is conducive, for the growth of such pest.
Poultry	All	<ul style="list-style-type: none"> Provide cool drinking water with electrolyte to poultry birds to reduce heat stress.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Coconut	All	<ul style="list-style-type: none"> Make basin around the coconut and harvest rain water as good amount of rainfall is expected.

Goat	All	<ul style="list-style-type: none">• Keep the goat under dry clean shelter to avoid pneumonia or breathing problem.
Coconut	All	<ul style="list-style-type: none">• Make basin around the coconut and harvest rain water as good amount of rainfall is expected.

For details please contact with AMFU/KPS /ADO's office of the respective area.