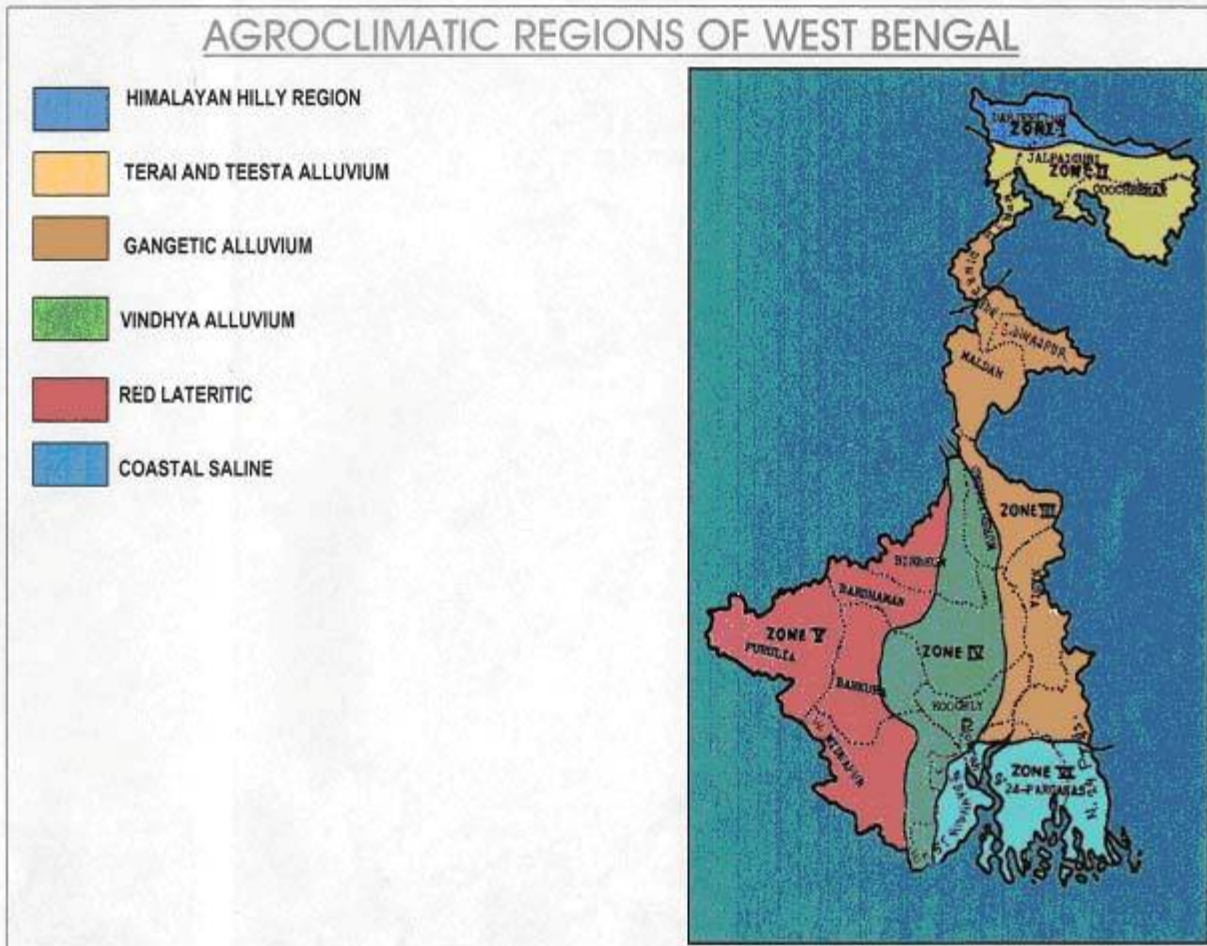


# AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

*For the period from 19<sup>th</sup> January to 23<sup>rd</sup> January '2019*



Issued on  
**Friday, 18<sup>th</sup> 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	<b>Northern Hill Zone</b>	Darjeeling	Kalimpong
2	<b>Terai-Teesta Alluvial Zone</b>	Jalpaiguri, Alipurduar , Coochbehar and Uttar Dinajpur.	Pundibari
3	<b>Gangetic Alluvial Zone</b>	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	<b>Vindhyan Alluvial Zone</b>	Dakhin Dinajpur, Malda	Majhian
5	<b>Costal Saline Zone</b>	South 24 Parganas and Purba Midnapore	Kakdeep
6	<b>Undulating Red and Laterite Zone</b>	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):

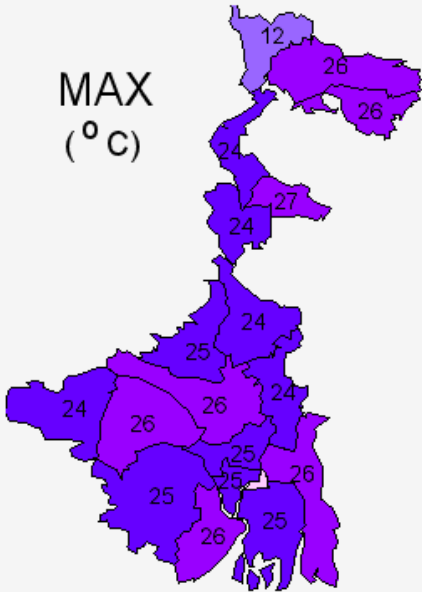
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad , Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata , Burdwan.

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

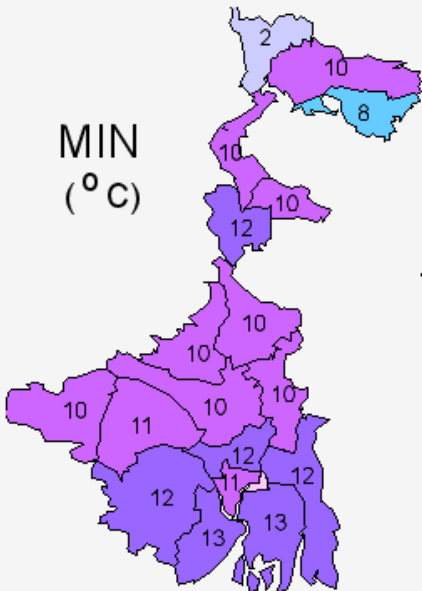
# DAY 1 FORECAST

Valid up to : Saturday 12th January 2019, 0830 hrs IST

MAX  
(°C)

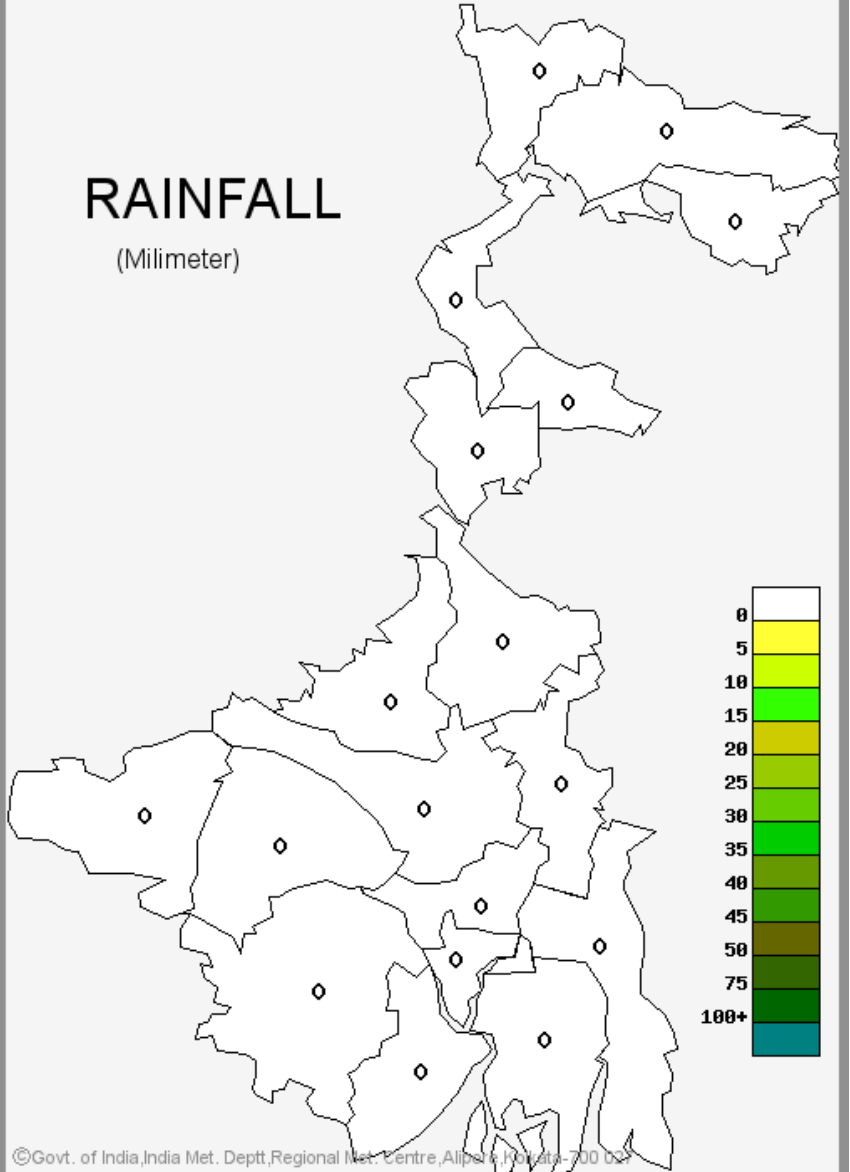


MIN  
(°C)



## RAINFALL

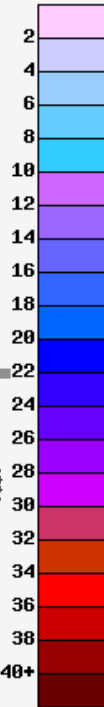
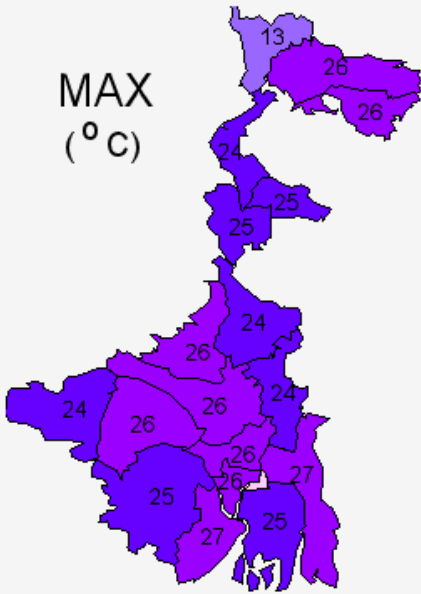
(Millimeter)



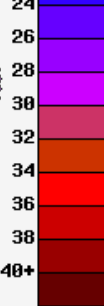
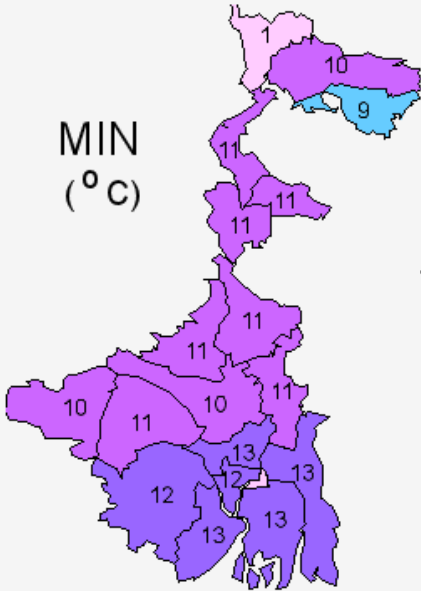
# DAY 2 FORECAST

Valid up to : Sunday 13th January 2019, 0830 hrs IST

MAX  
(°C)

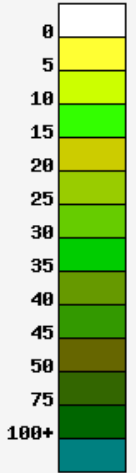
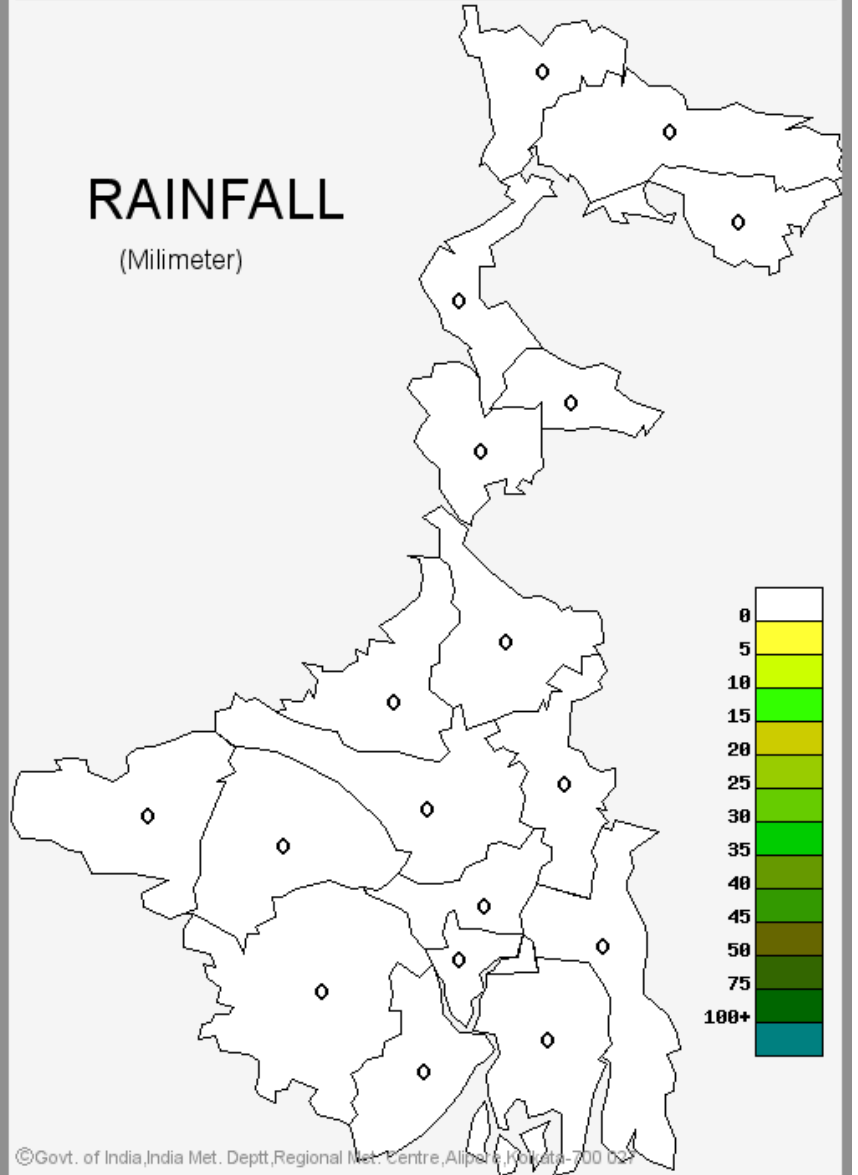


MIN  
(°C)



RAINFALL

(Milimeter)



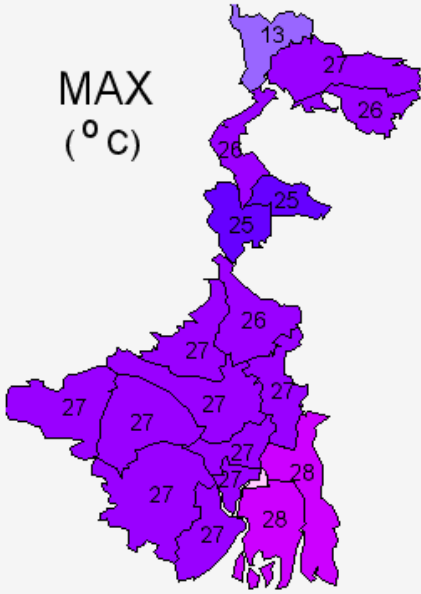




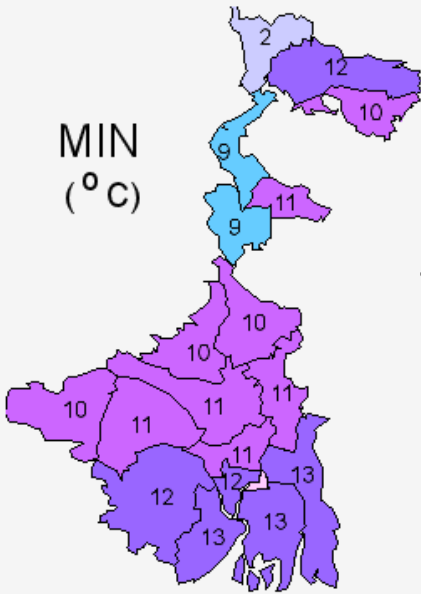
# DAY 5 FORECAST

Valid up to :Wednesday 16th January 2019,0830 hrs IST

MAX  
(°C)

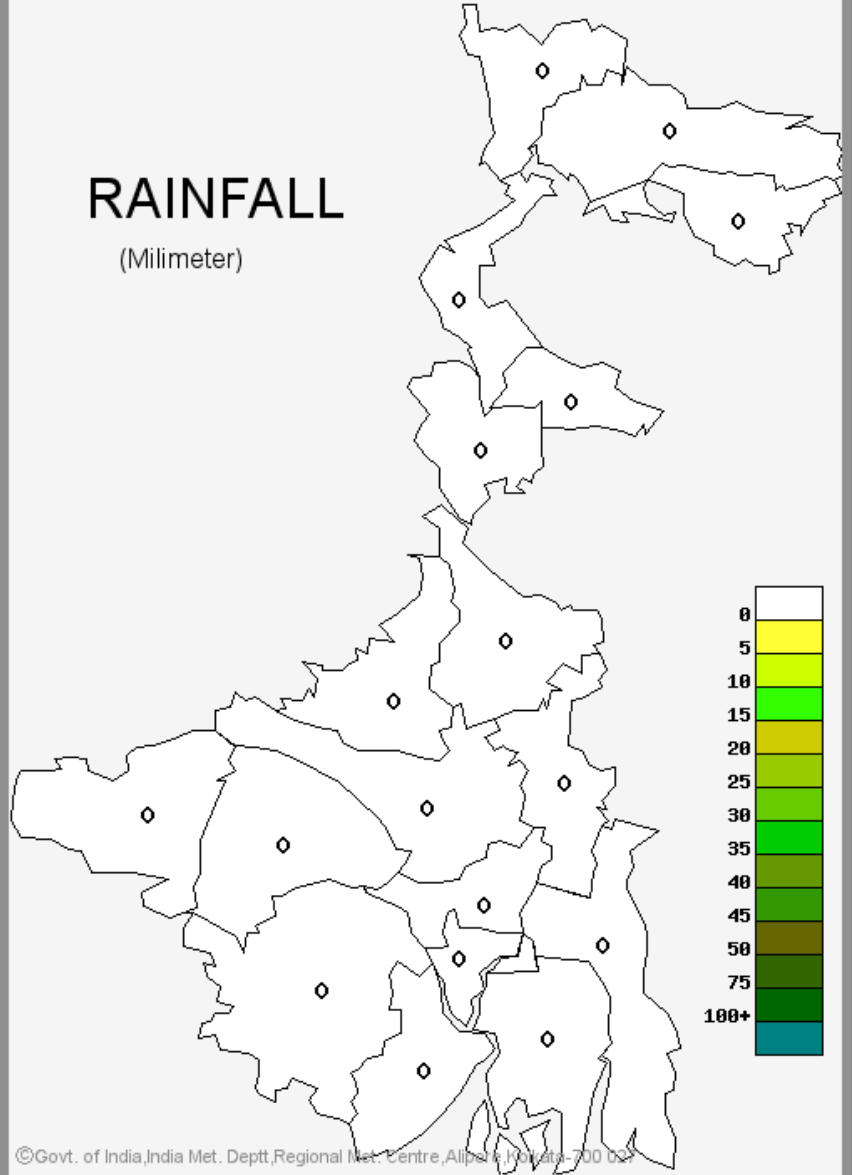


MIN  
(°C)



## RAINFALL

(Millimeter)



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## Part I: Weather

*Districtwise significant Past Weather in different agroclimatic zones for the period 15/01/19 to 17/01/19*

*District level Weather Forecast for different agroclimatic zones for the period 19/01/19 to 23/01/19*

### West Bengal

#### Northern Hill Zone

##### **DARJEELING**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	15-17	2-8	49-95
Wednesday	0.0			
Thursday	0.0			

##### **DARJEELING**

Rainfall	Possibilities of very light rainfall on 20 <sup>th</sup> , 23 <sup>rd</sup> January and rest of the days no rainfall have been forecasted. In coming five days total rainfall of 3.0 mm is expected.
Cloud Cover	Possibilities of partly clear sky on 23 <sup>rd</sup> January and rest of the day's clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 11 to 13°C.
Min. Temp.	Minimum temperature is expected to be around 3.0 to 4.0°C.
Max. RH	Maximum relative humidity is expected to be around 42 - 62 %.
Min. RH	Minimum relative humidity is expected to be around 22 - 31 %.
Wind	Wind mainly will blow from southerly on 21 <sup>st</sup> Jan 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 6.9-7.5 km/hr is expected.

### Terai-Teesta Alluvial Zone

##### **COOCH BEHAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-26	8-14	65-90
Wednesday	0.0			
Thursday	0.0			

##### **COOCHBEHAR**

Clear Sky will remain from 19<sup>th</sup> to 22<sup>nd</sup> January. and 23<sup>rd</sup> January mainly clear sky.

- No rainfall will occur from 19<sup>th</sup> to 23<sup>rd</sup> January.
- Wind Easterly 21<sup>st</sup> January and North easterly from 19<sup>th</sup> to 23<sup>rd</sup> January, average speed of 7-10 km/hr. is expected.
- Maximum temperature is expected to be around 26-28°C and minimum temperature is expected to be 07-11°C
- Maximum and minimum relative humidity is expected to be 39-54% and 22-33% respectively.

##### **JALPAIGURI**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-27	8-14	47-95
Wednesday	0.0			
Thursday	0.0			

##### **JALPAIGURI**

Clear Sky will remain from 19<sup>th</sup> to 22<sup>nd</sup> January. and 23<sup>rd</sup> January mainly clear sky.

- No rainfall will occur from 19<sup>th</sup> to 23<sup>rd</sup> January.
- Wind Easterly from 20<sup>th</sup>, 21<sup>st</sup> and 23<sup>rd</sup> January, North Easterly 19<sup>th</sup> January and 22<sup>nd</sup> January .average speed of 7- 8 km/hr. is expected.
- Maximum temperature is expected to be around 27-29°C and minimum temperature is expected to be 09-11°C
- Maximum and minimum relative humidity is expected to be 41-55% and 20-31% respectively.



**NORTH DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-26	8-12	70-86
Wednesday	0.0			
Thursday	0.0			

**NORTH DINAJPUR**

Clear Sky will remain from 19<sup>th</sup> to 22<sup>th</sup> January. and 23<sup>th</sup> January mainly clear sky.

- No rainfall will occur from 19<sup>th</sup> to 23<sup>th</sup> January.
- Wind Southerly from 19<sup>th</sup> January, 20<sup>th</sup> January South Easterly, 21<sup>th</sup> January Easterly and 22-23<sup>th</sup> January North Easterly. average speed of 7-8 km/hr. is expected.
- Maximum temperature is expected to be around 25-27°C and minimum temperature is expected to be 10-13°C
- Maximum and minimum relative humidity is expected to be 44-58% and 22-33% respectively.

**Gangetic Alluvial Zone****BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-26	10-17	70-80
Wednesday	0.0			
Thursday	0.0			

**BURDWAN**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N, NE direction with 4.0- km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 44-63% and minimum relative humidity is expected to be around 30% - 36%.

Maximum temperature is expected to be around 24°C - 26°C and minimum temperature is expected to be around 10°C - 11°C .

**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	10-15	55-75
Wednesday	0.0			
Thursday	0.0			

**MURSHIDABAD**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N,E & SE direction with 2.0- km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 43-64% and minimum relative humidity is expected to be around 28% - 37%.

Maximum temperature is expected to be around 24°C - 26°C and minimum temperature is expected to be around 10°C - 11°C .

**NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	9-12	35-95
Wednesday	0.0			
Thursday	0.0			

**NADIA**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N, NE,E direction with 4.0 - km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 42%- 61% and minimum relative humidity is expected to be around 27% - 35%.

Maximum temperature is expected to be around 25°C - 27°C and minimum temperature is expected to be around 10°C - 12°C .

**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-25	10-14	47-95
Wednesday	0.0			
Thursday	0.0			

**HOOGHLY**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N direction with 6.0- 9.0 km speed during next 5 days is expected.

Maximum relative humidity is expected to be around 44-58% and minimum relative humidity is expected to be around 28% - 33%.

Maximum temperature is expected to be around 26°C-28°C and minimum temperature is expected to be around 12°C-14°C.

**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-26	9-13	45-95
Wednesday	0.0			
Thursday	0.0			

**HOWRAH**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N direction with 7 - 9 km speed during next 5 days is expected.

Maximum relative humidity is expected to be around 44-54% and minimum relative humidity is expected to be around 27% - 33%.

Maximum temperature is expected to be around 26°C-28°C and minimum temperature is expected to be around 12°C-14°C .

**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	24-26	13-15	50-80
Wednesday	0.0			
Thursday	0.0			

**NORTH 24 PGS**

Clear sky is expected during next 5 days .

No rainfall is expected during rest 5 days.

Wind flow mainly from N, NE & E direction with 7.0-9.0 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 44-54% and minimum relative humidity is expected to be around 25% - 30%.

Maximum temperature is expected to be around 26°C-28°C and minimum temperature is expected to be around 12°C-14°C .

**Vindhyan Alluvial Zone**

**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	8-14	55-70
Wednesday	0.0			
Thursday	0.0			

**DAKSHIN DINAJPUR**

- Possibility of clear sky on 19<sup>th</sup> to 22<sup>nd</sup> January and mainly clear sky on 23<sup>rd</sup> January.
- There seems to be possibility of no rainfall on 19<sup>th</sup> to 23<sup>rd</sup> January.
- Wind from North-westerly, South-easterly, Easterly & North-easterly direction with an average speed of 6.6-8.7 Km/hr. is expected.
- Maximum temperature is expected to be around 26.0-27.0°C and minimum temperature is expected to be 10.0-13.0°C.
- Maximum and minimum relative humidity is expected to be 47-64% and 26-34% respectively.

**MALDA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-25	11-14	45-70
Wednesday	0.0			
Thursday	0.0			

**MALDA**

- Possibility of clear sky on 19<sup>th</sup> to 22<sup>nd</sup> January and mainly clear sky on 23<sup>rd</sup> January.
- There seems to be possibility of no rainfall on 19<sup>th</sup> to 23<sup>rd</sup> January.
- Wind from North-westerly, Westerly & North-easterly direction with an average speed of 6.6-9.6 Km/hr. is expected.
- Maximum temperature is expected to be around 26.0-27.0°C and minimum temperature is expected to be 12.0-13.0°C.
- Maximum and minimum relative humidity is expected to be 48-67% and 24-34% respectively.

**Coastal Saline Zone****PURBA MIDNAPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-26	11-14	60-95
Wednesday	0.0			
Thursday	0.0			

**PURBA MIDNAPUR**

- No rainfall is predicted in the next five days.
- Sky will be clear in the next five days.
- Wind speed will be 5.9-8.7 km/sec. and the predominant wind direction will be South-Westerly to Northerly.
- Maximum temperature is expected to be around 26.0°C -29.0°C and minimum temperature is likely to be around 12.0°C-15.0°C.
- Maximum and minimum relative humidity will be in the range of 51% -55% and 24% -28%.

**SOUTH 24-PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-27	10-14	45-85
Wednesday	0.0			
Thursday	0.0			

**SOUTH 24-PGS**

- No rainfall is predicted in the next five days.
  - Sky will be clear in the next five days.
  - Wind speed will be 7.4-10.3km/sec. and the predominant wind direction will be North-Easterly to Northerly.
  - Maximum temperature is expected to be around 26.0°C -28.0°C and minimum temperature is likely to be around 13.0°C-15.0°C.
- Maximum and minimum relative humidity will be in the range of 47% -53% and 26% -29%.

**Undulating Red and Laterite Zone**

**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-26	10-12	27-70
Wednesday	0.0			
Thursday	0.0			

**PASCHIM MIDNAPORE**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 5.2-8.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-53 % and minimum will be 23-26 %
- Maximum temperature will be 26-29°C and minimum will be 12-15°C.
- 

**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	9-12	40-70
Wednesday	0.0			
Thursday	0.0			

**BANKURA**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 4.6-8.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 50-61 % and minimum will be 22-27 %
- Maximum temperature will be 26-29°C and minimum will be 11-14°C.
- 

**PURULIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	23-24	7-12	30-85
Wednesday	0.0			
Thursday	0.0			

**PURULIA**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 3.6-8.0 km per hour will blow for coming five days.
- Relative humidity maximum will be 46-57 % and minimum will be 20-23 %
- Maximum temperature will be 25-29°C and minimum will be 8-14°C.
- 

**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-26	7-13	35-85
Wednesday	0.0			
Thursday	0.0			

**BIRBHUM**

- No rainfall for the coming five days and clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 5.7-8.6 km per hour will blow for coming five days.
- Relative humidity maximum will be 42-63 % and minimum will be 25-29%
- Maximum temperature will be 26-27°C and minimum will be 10-13°C.
- 

**Andaman & Nicobar Islands****ANDAMAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-32	18-25	65-96
Wednesday	0.0			
Thursday	0.0			

**NORTH MIDDLE ANDAMAN**

Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In North and Middle Andaman 26 mm of 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 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 73 to 80 % and 63 to 73 % respectively in North and Middle Andaman. Wind speed of 16.7 to 23.8 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 29.0 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 23 to 24 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 76 to 79 %, and 68 to 73 % respectively in South Andaman. Wind speed of 18.2 to 23.6 km/h is expected from North Easterly direction.

## NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	2.5	25-29	11-15	75-100
Wednesday	16.2			
Thursday	21.4			

## NICOBAR

- Partly cloudy weather with light to moderate rainfall is likely to occur during next five days. In Nicobar Islands 49.0 mm of rainfall is expected during this period. The maximum temperature will be 30.0 °C with minimum temperature of 27 to 28 °C, whereas the maximum and minimum relative humidity is expected to be 80 to 82 %, and 75 to 78 %, respectively in Nicobar Islands. Wind speed of 21.6 to 27.5 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 20 <sup>th</sup> , 23 <sup>rd</sup> January and rest of the days no rainfall has been forecasted so, irrigate the crops as per the requirement.
Large cardamom	Vegetative Stage	-	Weeding should be done followed by irrigation as per the requirement as total 3.0 mm rainfall has been forecasted for coming five days. Hand picking and destruction of leaf eating caterpillar of large cardamom. Use leaf mold at base of clump for moisture conservation.
Mandarin Orange	Harvesting and Non Bearing-vegetative stage	-	Pruning of dried and overcrowded branches then spray copper oxychloride 2gm /lit of water. Irrigate the crops as per the requirement as total 3.0 mm rainfall has been forecasted for coming five days. Manuring of the plants should be done @ 40 kg FYM/ plant and mulching also provided. Painting of the tree trunk from the base of the plant up to 1 meter height with copper oxychloride 4-5 gm /lit. of water

			should be done.
<b>Cole Crop (Cauliflower, Cabbage, etc)</b>	Harvesting stage	-	After weeding, irrigate the crop as per the requirement. Mature crops should be harvested.
<b>Potato</b>	Tuberization Stage	-	Earthing up followed by irrigation should be provided as per the requirement.
<b>Garden Pea</b>	Flowering and Pod maturity stage	-	Weeding should be done and irrigate the crops as per the requirement. Mature pods should be harvested.
<b>Mustard</b>	Flowering stage	-	Irrigation should be given as per the requirement if the soil has very low moisture level as total 3.0 mm rainfall has been forecasted for coming five days.
<b>Animal Husbandry (Cattle)</b>	-	-	Protect your livestock from FMD. Ensure that your animal is vaccinated with FMD vaccine.
<b>General</b>	-	-	In coming five days very light rainfall on 20 <sup>th</sup> , 23 <sup>rd</sup> January and rest of the days no rainfall has been forecasted so, irrigate the crops as per the requirement.
<b>Large cardamom</b>	Vegetative Stage	-	Weeding should be done followed by irrigation as per the requirement as total 3.0 mm rainfall has been forecasted for coming five days. Hand picking and destruction of leaf eating caterpillar of large cardamom. Use leaf mold at base of clump for moisture conservation.
<b>Mandarin Orange</b>	Harvesting and Non Bearing-vegetative stage	-	Pruning of dried and overcrowded branches then spray copper oxychloride 2gm /lit of water. Irrigate the crops as per the requirement as total 3.0 mm rainfall has been forecasted for coming five days. Manuring of the plants should be done @ 40 kg FYM/ plant and mulching also provided. Painting of the tree trunk from the base of the plant up to 1 meter height with copper oxychloride 4-5 gm /lit. of water should be done.

## Terai-Teesta Alluvial Zone

### Advisory

### Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
<p><b>Advisory General</b> No rainfall will occur from 19<sup>th</sup> to 23<sup>rd</sup> January</p> <p><b>Agriculture and Horticulture Main Crops Stage Pest &amp; Diseases Advisory Potato</b></p> <p>Sowing <b>Late blight</b>            Spray Mancozeb @ 2.5g/lit. of water alternating with cu-hydroxide 2g/lit. of water at 10 days interval plants with late blight symptom to be sprayed with (Cymoxinil + Mencozeb) @ 1.5g/lit. of water. <b>Ginger, Turmeric</b>  <b>Rhizome rot</b> Earthing up, weeding and draining out of excess water. Turmeric In case of leaf yellowing due to rotting of rhizomes apply (Metalaxyl + Mancozeb) @ 2.5 g/ lit. of water as soil drenching. <b>Legume vegetable</b>            Reproductive  <b>Aphid, white fly</b> For Aphid control of Lab Lab bean apply Ash in case of lower infestation and in case of heavy infestation Thiomethoxam 0.3 SG @ 1g/3 lit. of water may be applied. <b>Crucifers</b> For cabbage and cauliflower apply Borax 20% @ 2g/lit of water to avoid browning and hollow heart. <b>Cucurbits</b> Fruiting <b>Fruit Fly</b>  <b>Fruit &amp; Vine rot White fly, Mosaic</b>            Collection and destruction of fruit fly infested fruits. Installation of pheromone trap @ 2/Bigha. Apply (Metalaxyl 8% + Mencozeb 64%) @ 2g/lit. of water or Azoxystrobin @ 1ml/lit. of water, if there is appearance of fruit rot or rotting of vines, mainly near soil surface. For white fly apply clothianidin 50 WDG @ 3g/10lit. of water. For mosaic uproot the infected plant and</p>			

### ANIMAL HUSBANDRY & FISHERY

Name of Animal	Disease	Control measures

## Gangetic Alluvial Zone

Crop	Stage	Advisory
Boro	Early Vegetative	Start nursery management of Boro rice. Apply water to the nursery at evening and drain out at morning as night temperature is low. Spray Tricyclozole @ 0.5g/liter of

	e orVegetative	water and after one day spray Cheleted Zinc @ 1g/liter of water if seedlings turn to reddish in colour.
Mustard	Vegetative stage	Be careful for aphid infestation. Cut and burn the infested part if it is detected in early stage. Plant spacing should be maintained at 12-15 cm by thinning. Intercultural operations like light spading and weeding should be done. If required, light irrigation should be given as there is no rainfall forecast.
Gram and Pea	Vegetative stage	Intercultural operations like light spading and weeding should be done. In case of collar rot, drenching the soil with a combination of chlorothalonil (2g) + carbendazim (1 g)/lt of water.
Lentil	Vegetative	As temperature is lowering spray Carbendazim 50% @ 2g/liter of water as protective measures.
Cabbage, Cauliflower, Broccoli, Tomato,Chilli,French Bean,Pointed Gourd,Cucumber, Brinjal	Fruit Setting/ Vegetative	For pointed gourd after sprouting/germination of vine/root cuttings, hand weeding followed by mulching with paddy straw should be done. If downy mildew appears in the leaf, alternate spraying with cymoxanil-mancozeb (Curzate) (2.5 g/lt) and fosetyl Al (Alliet) (2.5g/lt) at 10 days interval is very effective. For the management of fruit and shoot borer one application of coragen @ 4 ml/tank. Cleanliness to be maintained. Apply Thiomethoxam 0.3 SG @1g/3lit. of water to manage sucking pests infestation. For nematode problem apply Fipronil 0.3G @1.5 Kg/Bigha followed by a light irrigation or Nimitz 480 EC@ 4-8 lit/ha. could be applied against root knot nematode. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water. Plants With small sized leaves and burchy appearance plants to be uprooted and sprayed with Imidachloprid @5ml/lit of Water .
Potato	Vegetative / Tuber Initiation	Present weather is not conjenial for disease and pest infestation. Those who have sown crop in late winter , be aware of Katui pest and blight infestation. For pest control apply Chloropyriphos 2.5 ml in 1 lt. water and to control blight apply mancozeb 2.5 g in 1 lt. of water. If infestation is more , apply cymoxanil-mancozeb (Curzate) (2.5 g/lt) in 10 days interval.
Rabi Onion & Garlic	Vegetative	Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/l with a sticker 4-5 times starting from 15 days after transplanting to check purple blotch disease.
Flowers like Marigold, Chrysanthemum & Gladiolus	Vegetative	Intercultural operations like light spading and weeding should be done.
Spinach, Radish, Fenugreek, Coriander, Turnip	Vegetative	Extra seedlings should be thinned out. Intercultural operations like light spading and weeding should be done.

Mango Orchard	General	Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets. Irrigation should be done in all orchards.
Poultry	General	Care for day old chicks with proper brooding, ventilation and management may reduce morbidity and mortality rate ND vaccine for control of chicken pox and DP immunization in duck is recommended as schedule .

## Coastal Saline Zone

Crop	Stage	Disease	Advisory
Boro paddy	Seedling (>30days old)	--Prepare main field by proper ploughing and removing all the weeds and transplanting start within 2-3 days --Apply basal fertilizer <a href="#">viz.urea@9kg/bigha</a> , SSp@54kg/bigha and MOP@11kg/bigha --Apply Phorate granule @ 40g/decimal or Carbofuran 3G @120g/decimal over seed bed , 7 days before transplanting	
	Seedlings in seed bed	Yellowing due to morning fog	--For preventing fog make shade by thin polythene --For yellowing of seed lings apply chelated Zinc or Zinc EDTA or SAF @1g/liter of water after complete drying of seed bed
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
	Seedlings in seed bed	Yellowing due to morning fog	--For preventing fog make shade by thin polythene --For yellowing of seed lings apply chelated Zinc or Zinc EDTA or SAF @1g/liter of water after complete drying of seed bed
Fishery	--Apply less amount of floating food only day time --Clean the surrounding for direct sunlight --Stirring the fishes with net must be done per week --Apply 7-10 kg lime mixed with water per bigha pond area during morning time --Start to sell Ruhi, Katla, Mrigel etc. carp		

## Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
General	--	--	There seems to be possibility of no rainfall 19 <sup>th</sup> January to 23 <sup>rd</sup> January. Irrigation should be done as per requirement.
Boro Rice	Seedling		If seedlings are becoming reddish, spray Tricyclozole @ 0.5g/liter of water and after one day spray Cheleted Zinc @



			1g/liter of water. Apply water to the nursery at evening and drain out at morning as night temperature is low.
<b>Lentil</b>	Growth stage	--	As temperature is lowing spray Carbendazim 50% @ 2g/liter of water as protective measures.
<b>Winter Vegetables</b>	Vegetative	Pest	Management of winter vegetable pest at early vegetative stage sprays Chlorpyriphos 50% + Cypermethin 5% @ 1.5 ml/liter of water.
<b>Mustard</b>	Growth	Aphid	Management of mustard aphid sprays Dinoteforun 20% S G @ 0.5gram/liter of water.
<b>Potato</b>	Early vegetative	Insect	Management of Potato insect pests sprays Neem oil 1% @ 3ml/liter + Sandovit @ 0.5ml/liter at evening hours at 7 days interval.
<b>Cattle</b>	--	--	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.
<b>Fishery</b>	Fish Disease	--	Apply CIFAX @ 1lit/ha-m for three months as required to control ulcer disease of fish.

## Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
<b>Boro rice</b>	<b>Nursery-Seedling</b>	<b>Cold injury</b>	<b>To protect the seedlings from cold, cover the nursery bed with polythene. Provide proper drainage channels in the nursery bed. Main field preparations should be completed as early as possible.</b>
<b>Wheat</b>	<b>Jointing/Tillering</b>	<b>Yellow Rust</b>	<b>Low temperature favours yellow rust disease. Spray Mancozeb 75 Wettable Powder @ 2ml/lit of water at clear weather condition.</b>
<b>Potato</b>	<b>Vegetative stage</b>	<b>-- Early and late blight</b>	<b>Second earthing up operation has to be done at this stage Apply Mancozeb @ 2.5 g/lit of water at clear weather condition and if required apply the same again after 10-12 days.</b>
<b>Mustard</b>	<b>Flowering</b>	<b>---</b>	<b>Avoid unnecessary application of pesticide.</b>
<b>Fishery</b>	<b><u>Fishery Management:</u> 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 or Sodium chloride based on the severity of infestation.</b>		
<b>General</b>	<b>The SPI map shows that the district is mildly dry in condition. So, farmers are advised to give a light irrigation to the standing crops if necessary</b>		

## Andaman & Nicobar Islands

### For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Sowing	<ul style="list-style-type: none"> <li>Prepare the land and sow the seed of bhendi after seed treatment with Tricoderma viride @ 4 g/kg of seed.</li> </ul>
Pulses	Sowing	<ul style="list-style-type: none"> <li>Prepare the land and do line sowing of mungbean @ 20 kg /ha and maintain plant population 25-30 plants per m2.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>Provide sufficient drinking water to the piglets during sunny times to prevent heat stress.</li> </ul>

### For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Sowing	<ul style="list-style-type: none"> <li>Prepare the land and sow the seed of bhendi after seed treatment with Tricoderma viride @ 4 g/kg of seed.</li> </ul>

Pulses	Sowing	<ul style="list-style-type: none"> <li>Prepare the land and do line sowing of mungbean @ 20 kg /ha and maintain plant population 25-30 plants per m2.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>Provide sufficient drinking water to the piglets during sunny times to prevent heat stress.</li> </ul>

**For Nicobar**

Crop/Livestock	Stage	Weather based agro advisories
Coconut	All	<ul style="list-style-type: none"> <li>Do periodical cleaning of coconut crown and garden to manage pest and diseases.</li> </ul>
Pig	Piglet	<ul style="list-style-type: none"> <li>Provide sufficient drinking water to the piglets during sunny times to prevent heat stress.</li> </ul>

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