

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

*For the period from 23<sup>rd</sup> February to 27<sup>th</sup> February '2019*

## AGROCLIMATIC REGIONS OF WEST BENGAL

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



Issued on  
**Friday, 22<sup>nd</sup> February '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):

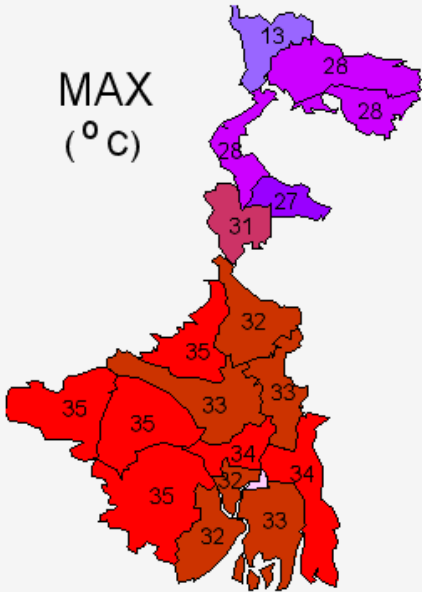
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

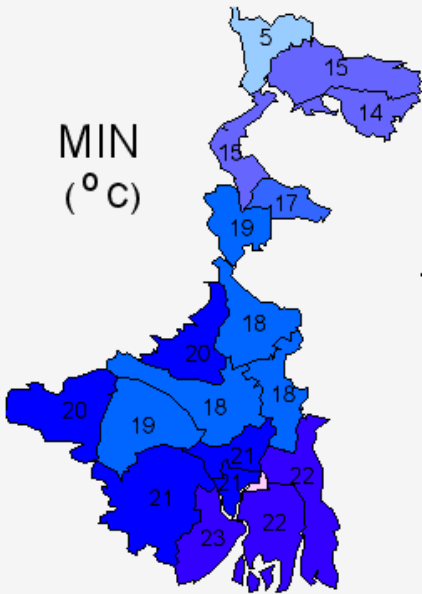
# DAY 1 FORECAST

Valid up to : Saturday 23rd February 2019, 0830 hrs IST

MAX  
(°C)

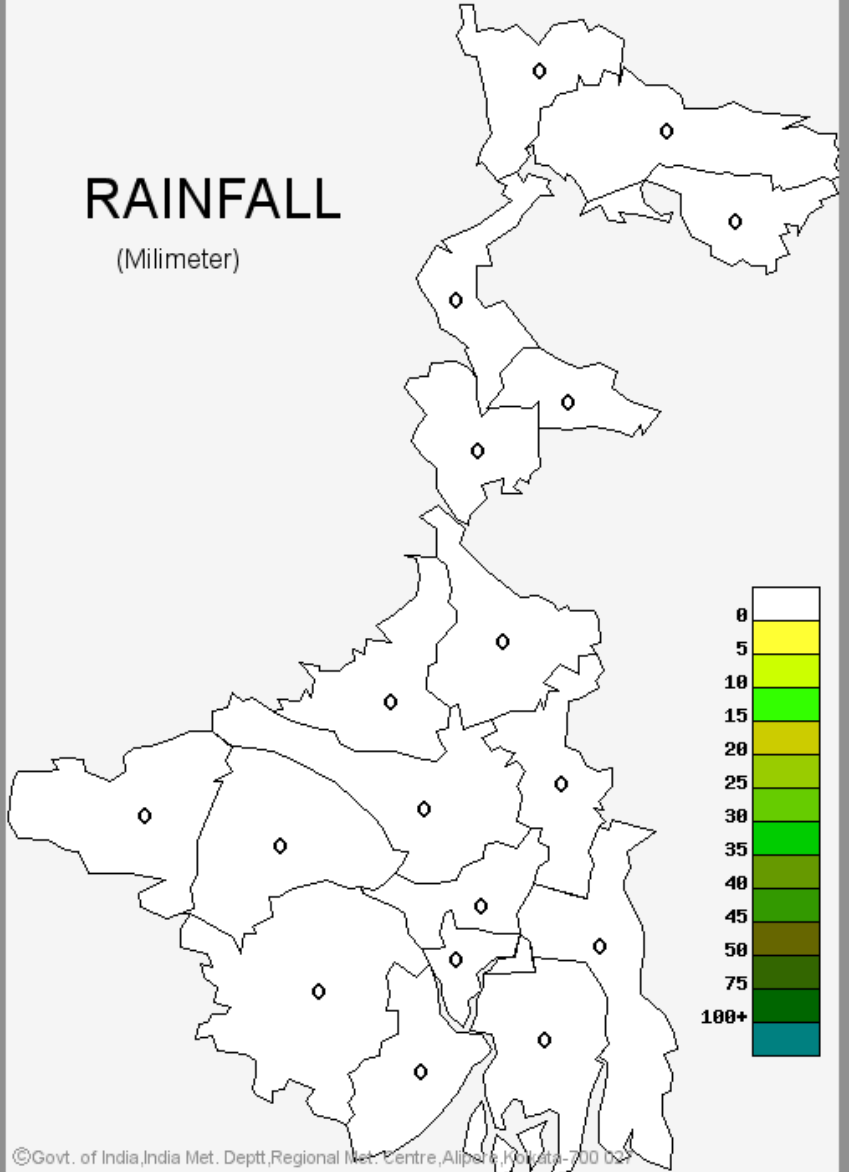


MIN  
(°C)



## RAINFALL

(Millimeter)

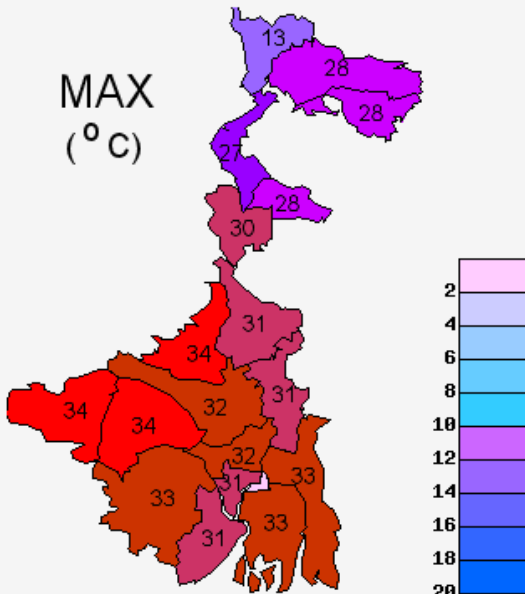




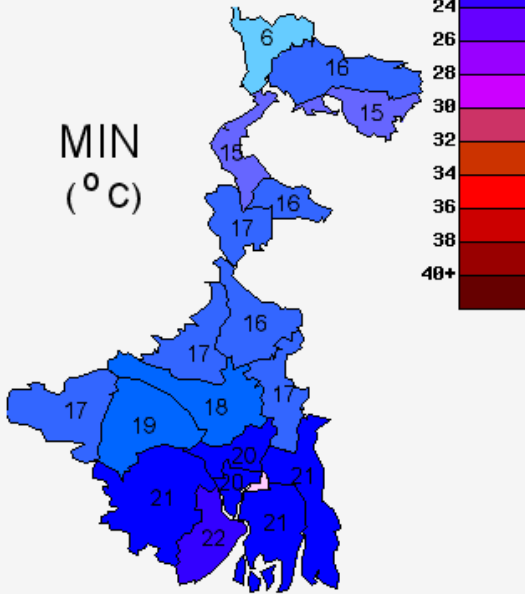
# DAY 3 FORECAST

Valid up to :Monday 25th February 2019,0830 hrs IST

MAX  
(°C)

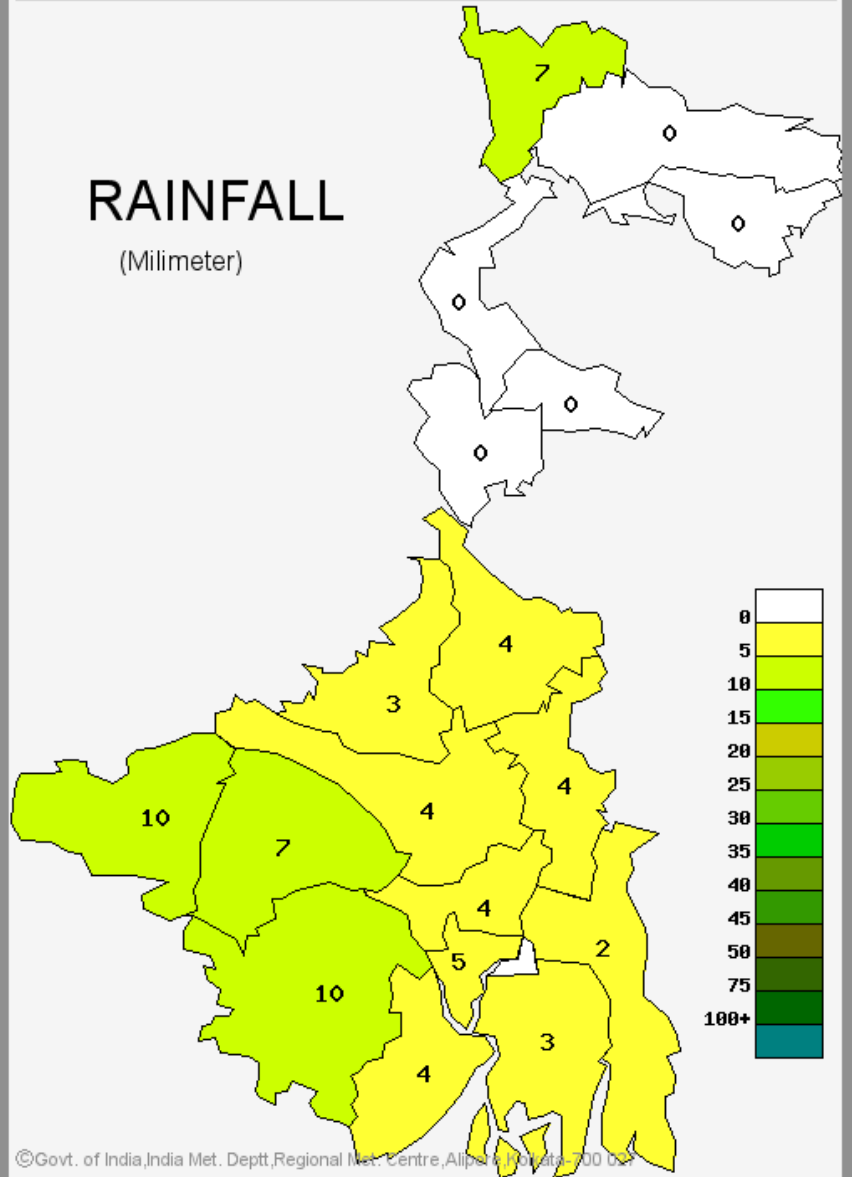


MIN  
(°C)



## RAINFALL

(Milimeter)

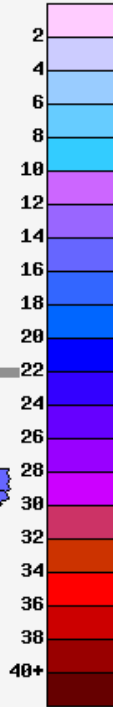
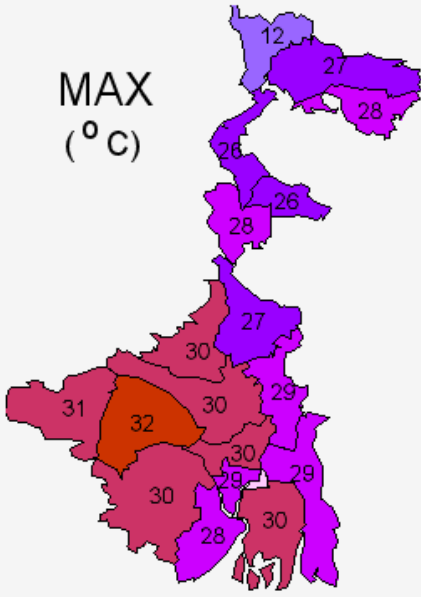


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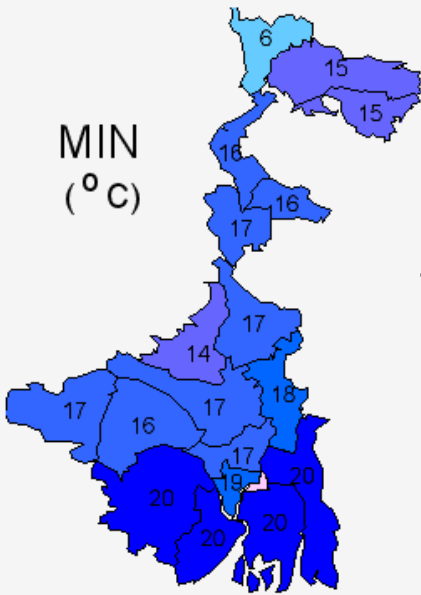
# DAY 4 FORECAST

Valid up to :Tuesday 26th February 2019,0830 hrs IST

MAX  
(°C)

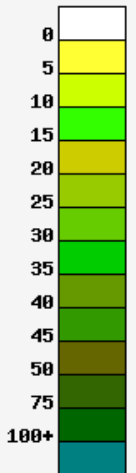
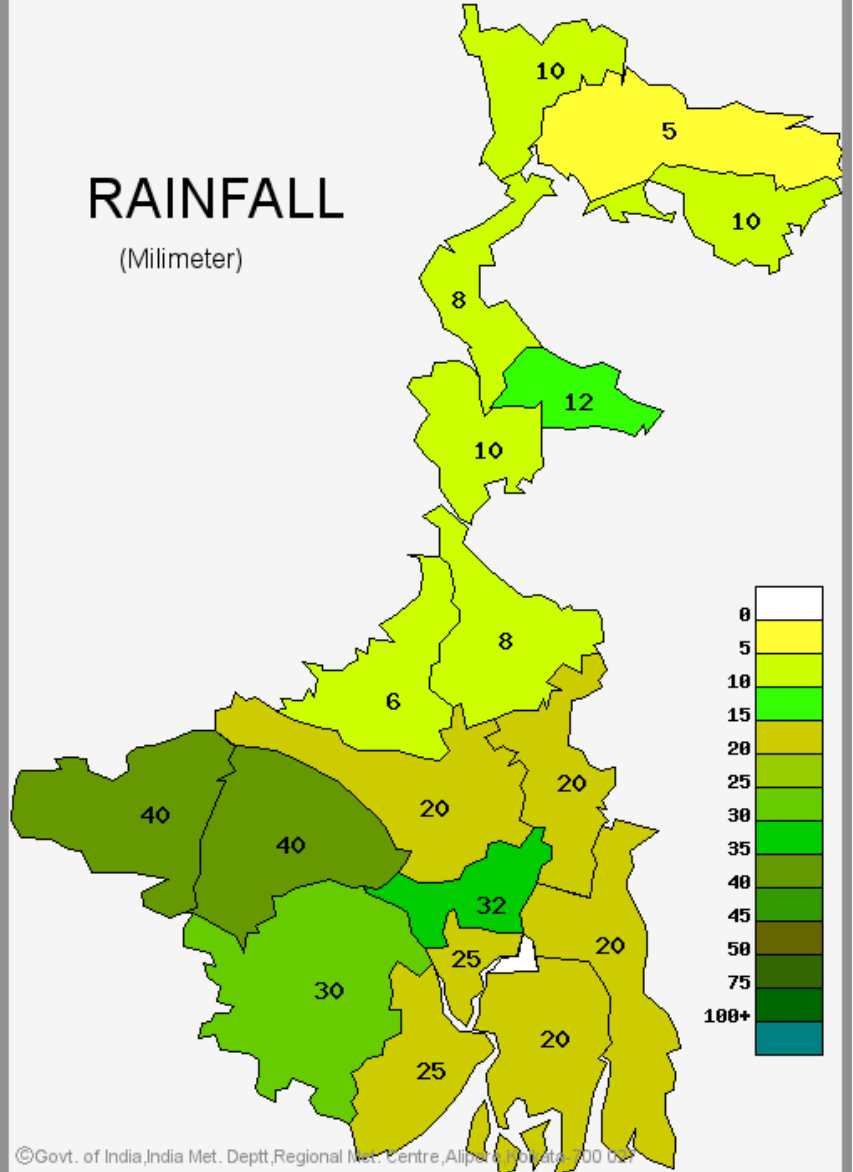


MIN  
(°C)



## RAINFALL

(Milimeter)





## Part I: Weather

*Districtwise significant Past Weather in different agroclimatic zones for the period 19/02/19 to 21/02/19*

*District level Weather Forecast for different agroclimatic zones for the period 23/02/19 to 27/02/19*

### West Bengal

#### Northern Hill Zone

##### DARJEELING

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 8-17           | 4-8            | 85-95                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

##### DARJEELING

|             |  |
|-------------|--|
| Rainfall    | Possibilities of light rainfall on 25 <sup>th</sup> February and moderate rainfall on 26 <sup>th</sup> 27 <sup>th</sup> February and rest of the day's no rainfall has been forecasted. In coming five days total rainfall of 47.0 mm is expected. |
| Cloud Cover | Possibilities of partly clear sky on 25 <sup>th</sup> February and mainly cloudy sky on 26 <sup>th</sup> , 27 <sup>th</sup> February rest of the day's clear sky are expected.   |
| Max. Temp.  | Maximum temperature is expected to be around 12.0 to 13.0°C.   |
| Min. Temp.  | Minimum temperature is expected to be around 4.0 to 6.0°C.   |
| Max. RH     | Maximum relative humidity is expected to be around 54 - 74 %.  |
| Min. RH     | Minimum relative humidity is expected to be around 29 - 46 %.  |
| Wind        | Wind mainly will blow from south-easterly on 24 <sup>th</sup> February, rest of the days wind mainly will blow from easterly direction. In coming five days wind mainly will blow with a speed of 8.2- 9.2 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          | 11-16          | 60-88                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

##### COOCHBEHAR

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##### JALPAIGURI

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 24-27          | 12-16          | 55-88                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

##### JALPAIGURI

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**NORTH DINAJPUR**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 24-26          | 10-11          | 70-80                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**NORTH DINAJPUR**

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

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 30-31          | 15-18          | 65-80                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**BURDWAN**

Clear sky to partly cloudy sky on ( 25<sup>th</sup>, 26<sup>th</sup> & 27<sup>th</sup> Feb.) is expected during next 5 days .

No rainfall to heavy rainfall (26<sup>th</sup>, 27<sup>th</sup> Feb.) is expected during rest 5 days and total will be 120 mm.

Wind flow mainly from E, SE , NW & W direction with 8.1- 12.4 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 45-89% and minimum relative humidity is expected to be around 22% - 58%.

Maximum temperature is expected to be around 32°C - 37°C and minimum temperature is expected to be around 19°C - 21°C .

**MURSHIDABAD**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 28-29          | 15-17          | 40-80                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**MURSHIDABAD**

Clear sky to partly cloudy (26<sup>th</sup>, 27<sup>th</sup> Feb ) sky expected during next 5 days .

No rainfall to medium rainfall (27<sup>th</sup> Feb) is expected during rest 5 days and total will be 34 mm.

Wind flow mainly from E, W, NW, & S direction with 14.4 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 48-85% and minimum relative humidity is expected to be around 16% - 53%.

Maximum temperature is expected to be around 31°C - 35°C and minimum temperature is expected to be around 17°C - 21°C .

**NADIA**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 32-32          | 16-16          | 35-96                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**NADIA**

Clear to partly cloudy (25<sup>th</sup>, 26<sup>th</sup>, & 27<sup>th</sup> feb) sky expected during next 5 days .

No rainfall to heavy rainfall (26<sup>th</sup> & 27<sup>th</sup> feb.) is expected during rest 5 days and total will be 119mm.

Wind flow mainly from NW, W, SW, E & S direction with 8.2- 13.9 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 41% - 89% and minimum relative humidity is expected to be around 20% - 60%.

Maximum temperature is expected to be around 31°C-36°C and minimum temperature is expected to be around 19°C - 21°C

**HOOGHLY**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 31-33          | 16-21          | 25-85                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**HOOGHLY**

Clear sky to mainly cloudy sky on (25<sup>th</sup>,26<sup>th</sup> & 27<sup>th</sup> Feb.) is expected during next 5 days .

No rainfall to heavy rainfall ( 26<sup>th</sup>,&27<sup>th</sup> Feb.) is expected during rest 5 days and total will be 150 mm.

Wind flow mainly from N, NW,S ,SE& E direction with 8.2 – 15.1 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 45% - 91% and minimum relative humidity is expected to be around 25% - 75%.

Maximum temperature is expected to be around 31°C-36°C and minimum temperature is expected to be around 19°C-22°C.

**HOWRAH**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 29-29          | 13-14          | 85-96                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**HOWRAH**

Clear sky to partly cloudy sky on ( 25<sup>th</sup>,26<sup>th</sup>&27<sup>th</sup> Feb.) is expected during next 5 days .

No rainfall to heavy rainfall ( 26<sup>th</sup> &27<sup>th</sup> Feb.) is expected during rest 5 days and total will be 147 mm during rest 5 days .

Wind flow mainly from W, E, S & NE direction with 8.6- 14 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 45% - 91% and minimum relative humidity is expected to be around 23% - 77%.

Maximum temperature is expected to be around 31°C-36°C and minimum temperature is expected to be around 19°C-22°C.

**NORTH 24 PGS**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 32-34          | 16-22          | 25-80                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**NORTH 24 PGS**

Clear sky to partly cloudy sky on ( 25<sup>th</sup>, 26<sup>th</sup> & 27<sup>th</sup> Feb.) is expected during next 5 days .

No rainfall to heavy rainfall (25<sup>th</sup>, 26<sup>th</sup> & 27<sup>th</sup> Feb.) is expected during rest 5 days and total will be 138 mm.

Wind flow mainly from NE,E, W & SE direction with 10.7– 15.6 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 55% - 91% and minimum relative humidity is expected to be around 25% - 74%.

Maximum temperature is expected to be around 31°C-37°C and minimum temperature is expected to be around 20°C-22°C .

**Vindhyan Alluvial Zone**

**DAKSHIN DINAJPUR**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | --             | 14-15          | 80-88                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**DAKSHIN DINAJPUR**

- Possibility of clear sky on 23<sup>rd</sup> February, partly cloudy on 24<sup>th</sup> & 25<sup>th</sup> February and mainly cloudy on 26<sup>th</sup> & 27<sup>th</sup> February.
- There seems to be possibility of no rain on 23<sup>rd</sup> to 25<sup>th</sup> February and moderate rain on 26<sup>th</sup> & 27<sup>th</sup> February.
- Wind from Westerly, Southerly and South-easterly direction with an average speed of 7.9-16.0 Km/hr. is expected.
- Maximum temperature is expected to be around 24.0-30.0<sup>o</sup>C and minimum temperature is expected to be 15.0-17.0<sup>o</sup>C.
- Maximum and minimum relative humidity is expected to be 47-83% and 23-55% respectively.
- 

**MALDA**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 29-30          | 16-17          | 40-90                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**MALDA**

- Possibility of clear sky on 23<sup>rd</sup> February, partly cloudy on 24<sup>th</sup> & 25<sup>th</sup> February and mainly cloudy on 26<sup>th</sup> & 27<sup>th</sup> February.
- There seems to be possibility of no rain on 23<sup>rd</sup> to 25<sup>th</sup> February and moderate rain on 26<sup>th</sup> & 27<sup>th</sup> February.
- Westerly, Southerly and South-easterly direction with an average speed of 9.7-16.6 Km/hr. is expected.
- Maximum temperature is expected to be around 26.0-31.0<sup>o</sup>C and minimum temperature is expected to be 14.0-19.0<sup>o</sup>C.
- Maximum and minimum relative humidity is expected to be 43-82% and 20-50% respectively.
- 

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

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 29-32          | 16-22          | 70-96                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**PURBA MIDNAPUR**

- No rainfall is predicted on 23<sup>rd</sup> and 24<sup>th</sup> February but very heavy rainfall is predicted for the remaining days.
- Sky will be clear on 23<sup>rd</sup> and 24<sup>th</sup> February but mainly cloudy in the remaining days.
- Wind speed will be 9.9-15.6m/sec. and the predominant wind direction will be North-Easterly to Westerly.
- Maximum temperature is expected to be around 31.0<sup>o</sup>C -36.0<sup>o</sup>C and minimum temperature is likely to be around 20.0<sup>o</sup>C-21.0<sup>o</sup>C.
- Maximum and minimum relative humidity will be in the range of 52% -93% and 28% -78%.
-

**SOUTH 24-PGS**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 31-34          | 15-22          | 25-97                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**SOUTH 24-PGS**

- No rainfall is predicted on 23rd and 24th February but light to very heavy rainfall is predicted for the remaining days.
- Sky will be clear on 23rd and 24th February but mainly cloudy in the remaining days.
- Wind speed will be 10.5-16.5m/sec. and the predominant wind direction will be North-Easterly to Westerly.
- Maximum temperature is expected to be around 31.0°C -37.0°C and minimum temperature is likely to be around 20.0°C-22.0°C.
- Maximum and minimum relative humidity will be in the range of 65% -91% and 30% -77%.

**Undulating Red and Laterite Zone****PASCHIM MIDNAPORE**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 33-34          | 16-21          | 25-90                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**PASCHIM MIDNAPORE**

- Moderate rainfall on Monday, Tuesday and Wednesday and cloudy sky will be present for the same.
- Predominant wind direction will be Northeasterly. Wind with a speed of 7.8-16.0 km per hour will blow for coming five days.
- Relative humidity maximum will be 48-91 % and minimum will be 22-77 %
- Maximum temperature will be 28-35°C and minimum will be 20-21°C.
- 

**BANKURA**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 33-35          | 15-17          | 25-72                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**BANKURA**

- Moderate rainfall on Monday, Tuesday and Wednesday and cloudy sky will be present for the same.
- Predominant wind direction will be Southwesterly. Wind with a speed of 7.7-14.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 53-88 % and minimum will be 22-62%
- Maximum temperature will be 30-36°C and minimum will be 15-19°C.
- 

**PURULIA**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | --             | 12-17          | 75-77                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |
|           |               |                |                |                       |

**PURULIA**

- Moderate rainfall on Monday, Tuesday and Wednesday and cloudy sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 6.5-16.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-87 % and minimum will be 19-58 %
- Maximum temperature will be 27-35°C and minimum will be 15-20°C.
-

**BIRBHUM**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 31-33          | 13-15          | 35-80                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

**BIRBHUM**

- Moderate rainfall on Monday, Tuesday and Wednesday and cloudy sky will be present for the same.
- Predominant wind direction will be Southwesterly. Wind with a speed of 9.5-14.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-84 % and minimum will be 16-52%
- Maximum temperature will be 26-35°C and minimum will be 14-28°C.
- 

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

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 28-33          | 23-25          | 60-99                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

**NORTH MIDDLE ANDAMAN**

Bright sunshine hour 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 32.0 to 33.0 °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 72 to 74 % and 60 to 66 % respectively in North and Middle Andaman. Wind speed of 7.4 to 17.6 km/h is expected from South Westerly direction.

**SOUTH ANDAMAN.**

- Bright sunshine hour is likely to occur during next five days. In South Andaman no rainfall is expected during this period. The maximum temperature in South Andaman will be 32.0 to 33 °C with minimum temperature of 24 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 72 to 75 %, and 63 to 66 % respectively in South Andaman. Wind speed of 8.8 to 17.8 km/h is expected from North Easterly direction.

**NICOBAR**

| Days      | Rainfall (mm) | Maxi Temp (°C) | Mini Temp (°C) | Relative Humidity (%) |
|-----------|---------------|----------------|----------------|-----------------------|
| Tuesday   | 0.0           | 29-30          | 23-24          | 65-75                 |
| Wednesday | 0.0           |                |                |                       |
| Thursday  | 0.0           |                |                |                       |

**NICOBAR**

- Partly cloudy weather with light rainfall is likely to occur during next five days. In Nicobar Islands 11.0 mm of rainfall is expected during this period. The maximum temperature will be 31.0 to 32 °C with minimum temperature of 28 °C, whereas the maximum and minimum relative humidity is expected to be 81 %, and 73 to 77%, respectively in Nicobar Islands. Wind speed of 17.0 to 23.0 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 light rainfall on 25 <sup>th</sup> February and moderate rainfall on 26 <sup>th</sup> , 27 <sup>th</sup> February rest of the day's no rainfall has been forecasted so, irrigate the crops as per the requirement and proper drainage channel should be maintained.  |
| Large cardamom                        | Vegetative Stage                      | -               | Mulching should be done to conserve soil moisture and control weeds.   |
| Mandarin Orange                       | Vegetative stage                      | -               | Application of manuring @ 30-40 kg FYM/ Plant and fertilizer (N: P: K @ 300:250:300 gm/tree) should be completed and mulching with locally available resources should be done. Irrigate the orchard as per the requirement as 47.0 mm rainfall has been forecasted for coming five days. |
| Cole Crop (Cauliflower, Cabbage, etc) | Harvesting stage                      | -               | Mature crop should be harvested.   |
| Potato                                | Tuberization Stage                    | -               | Weeding should be done and irrigate the crops as per the requirement as total 47.0 mm rainfall has been forecasted for coming five days.   |
| Garden Pea                            | Flowering and Pod maturity stage      | -               | Weeding should be done and mature pods should be harvested.  |
| Mustard                               | Flowering and Siliqua formation stage | -               | Irrigation should be given as per the requirement for better siliqua formation because total 47.0 mm rainfall has been forecasted for coming five days.  |
| Animal Husbandry (Pig)                | -                                     | -               | Piglets are highly susceptible to pneumonia in winter months. The symptoms are high fever (104-105°F), anorexia, difficulty in breathing etc. For treatment give antibiotics, paracetamol and vitamin after consultation with veterinary doctors.  |
| General                               | -                                     | -               | In coming five days light rainfall on 25 <sup>th</sup> February and moderate rainfall on 26 <sup>th</sup> , 27 <sup>th</sup> February rest of the day's no rainfall has been forecasted so, irrigate the crops as per the requirement and proper drainage channel should be maintained.  |
| Large cardamom                        | Vegetative Stage                      | -               | Mulching should be done to conserve soil moisture and control weeds.   |
| Mandarin Orange                       | Vegetative stage                      | -               | Application of manuring @ 30-40 kg FYM/ Plant and fertilizer (N: P: K @ 300:250:300 gm/tree) should be completed and mulching with locally available resources should be done. Irrigate the orchard as per the requirement as 47.0 mm rainfall has been forecasted for coming five days. |

### Terai-Teesta Alluvial Zone

#### Advisory

#### Agriculture and Horticulture

| Main Crops | Stage | Pest & Diseases | Advisory |
|------------|-------|-----------------|----------|
|            |       |                 |          |
|            |       |                 |          |
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|            |       |                 |          |

#### ANIMAL HUSBANDRY & FISHERY

| Name of Animal | Disease | Control measures |
|----------------|---------|------------------|
|                |         |                  |
|                |         |                  |

## Gangetic Alluvial Zone

| Crop  | Stage                            | Advisory  |
|---|----------------------------------|---|
| Boro  | Seedling                         | 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/litre of water and after one day spray Cheleted Zinc @ 1g/litre of water if seedlings turn to reddish in colour.   |
| Mustard   | Flowerin g/Pod formation stage   | Be careful for aphid infestation. Immediately spray Imidachloprid (Confidor) @ 3ml/10 litre of water. Intercultural operations like weeding and rouging should be done. If required, light irrigation may be given as there is no rainfall forecast.  |
| Gram and Pea  | Flowerin g/Pod formation 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)/litre of water.   |
| Lentil  | Vegetativ e/Floweri ng stage     | As temperature is lowering spray Carbendazim 50% @ 1g/litre of water as protective measure. Intercultural operations mainly weeding should be done.   |
| Cabbage, Cauliflower, Broccoli, Tomato,Chilli,Fren chBean,Pointed Gourd,Cucumber, Brinjal | Fruit Setting/<br>Vegetativ e    | For pointed gourd after sprouting/germination of vine/root cutings, 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 Carbofuron 3G @4.5kg /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 bunchy appearance plants to be uprooted and sprayed with Imidachloprid @0.5ml/lit of Water. For control of bacterial wilt in solanaceous vegetable stop irrigation immediately, uproot the plant carefully and apply bleaching powder or fresh cow dung mixture around the infected plant to control the spreading of disease in the field. For management of fruit borer in the tomato apply Indoxacarb 1ml/lit. of water insecticide mixture at 7 days interval thrice. |
| Potato  | Vegetativ e/<br>Tuber Initiation | Present weather is not congenial for disease and pest infestation. Those who have sown crop in late winter, be aware of aphid and blight infestation. For pest control apply Imidachlorprid @ 3ml/ 10 litres of water. If required then repeat the application of Imidachlorprid after 10 days. To control blight apply Mancozeb 2.5 g / lt. of water. If infestation is more, apply cymoxanil-mancozeb (Curzate) (2.5 g/lt) or Dimethomorph (1 g) + Mancozeb (2g)/lt. (Moxymate) of water at 10 days interval.   |

|  |            |  |
|--|------------|--|
| Rabi Onion & Garlic                              | Vegetative | Intercultural operations like light spading and weeding should be done. Propiconazole (Tilt) @ 1ml/litre with a sticker 4-5 times (at 7 days interval) starting from 15 days after transplanting to check purple blotch disease  |
| Flowers like Marigold, Chrysanthemum & Gladiolus | Flowering  | Intercultural operations like light spading and weeding should be done.  |
| Mango Orchard                                    | General    | i) Spray either Imidachloprid (Confidor) @ 3ml/10 litres of water or Acetamiprid (Asataf) @ 1 ml/litre of water for controlling mango hopper<br>ii) When inflorescence attain 4 inches (emergence of axis) or just before flowering apply Tridemethon (Beledan) @ 1 g/litre of water with sticker (Tiptop/diamond)<br>iii) Immediately after fruit setting apply Bavistin @ 1 g/litre – 3 sprays at 15 days interval<br>iv) Irrigation should be done in all orchards.<br>v) Apply FYM @ 10-12 kg and Sufala / DAP @ 1 kg per plant. |
| Poultry  | General    | Care for day old chicks with proper brooding, ventilation and management may reduce morbidity and mortality rate<br>Anti-stress medication is recommended to save the poultry birds against cold weather.  |
| Fishery  | General    | i) Against Ulcer disease take preventive measure with application of 10-14 kg Lime per bigha fish pond.<br>ii) For control of Ulcer disease, apply 13 kg Lime per bigha fish pond. Then after 7 days, apply 1.3 kg bleaching powder per bigha fish pond.<br>iii) In order to avoid bird menace, give net covering over the fish pond.<br>iv) In cold and cloudy weather, avoid application of fertilizer and compost, as oxygen deficiency increases and depth of water decreases in farm pond.                                      |

## Coastal Saline Zone

| Crop       | Stage      | Disease  | Advisory  |
|------------|------------|--|---|
| Boro paddy | vegetative | Chance of stem borer due to rising temperature | --For stem borer attack spray Triazophos@1.2ml/liter of water or Propanophos@1.5ml/liter of water<br>--Where seedlings are 15 to 20 days old apply first top dressing with urea @9kg/bigha<br>--Before top dressing field should be dry and 24 hours after top dressing field should be irrigated.  |
| Okra       |            |  | --Select some variety like arka anamika, arkaprava, pusa shaoni, parvani, kranti etc for desi variety and for hybrid variety mahiko hybrid 10,64, kamini, shakti, abantika etc. etc. for sowing<br>--Before sowing apply compost and for preventing the crop from worm and other pest apply Furadon 3G@2.9kg/bigha<br>--Sow the seed in case of desi variety@10-15kg/bigha and for hybrid variety@3.7-5kg/bigha<br>--The spacing should be maintain for desi variety 35cm X 30cm and for hybrid variety 60cm X 30-45cm<br>--Before sowing treat the seed by 0.2% bavistin@2g/liter of water |
| Mung       |            |  | --Prepare land for mung<br>--Select some variety like TM-99, PDM-11, TARM-1,2, Samrat<br>--Sow the seed @2.5-3kg/bigha<br>--Apply basal fertilizer dose of urea@4kg/bigha and SSP@35-40kg/bigha<br>--If potato field is selected for mung cultivation after harvesting the no fertilizer should be given  |



|           |            |  |
|-----------|------------|--|
| Sunflower | vegetative | --Keep moisture level perfect in the field |
|-----------|------------|--|

## Vindhyan Alluvial Zone

| Crop              | Stage      | Variety           | Advisory  |
|-------------------|------------|-------------------|---|
| General           | --         | --                | Possibility of no rain 23 <sup>rd</sup> to 25 <sup>th</sup> February top dressing should be done this time And 26 <sup>th</sup> & 27 <sup>th</sup> February possibility of moderate rain so rain water should be harvested that time. |
| Boro Rice         | Tillering  |                   | Apply 1 <sup>st</sup> top dressing with Urea @ 5kg/bigha.   |
| Crucifera         | Growth     |                   | To control the diamond diamond back moth on cruceferas vegetables spray dinotefaran 20 SG @ 1g/liter of water.  |
| Winter Vegetables | Vegetative | Pest              | Management of winter vegetable pest at early vegetative stage sprays Chlorpyriphos 50% + Cypermethin 5% @ 1.5 ml/liter of water.  |
| Mustard           | Growth     | Aphid             | Management of mustard aphid sprays Dinoteforan 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 dadeeci @ 1.5g/liter of water with sticker @ 0.5ml/liter.  |
| Cattle            | --         | --                | All new born animals should be dewormed and lambs/kids should be vaccinated against PPR.  |

## Undulating Red and Laterite Zone

| Crop          | Stage   | Problem            | Advisory  |
|---------------|---|--------------------|---|
| Boro rice     | Active Tillering  | Weeds<br><br>Blast | Remove the weeds by hand weeding in the field and Keep the bunds clean. Maintain the water level upto 2 cm in the field. Apply 7.3 kg Urea per bigha at 20 days after transplanting.<br>Aviod excess nitrogen application. Spray Tricyclozole 75WP@ 1g/lit of water after the rains |
| Wheat         | Flowering<br><br>Dough stage  | ---<br><br>---     | Keep the field weed free. Give irrigation to the crop and avoid the unnecessary chemical applications at this stage.<br>It is the final growth stage of the crop.   |
| Potato        | Tuber bulking   | Late blight        | Apply Mancozeb @ 2.5g/lit of water at an interval of 5-7 days after the rains   |
| Pointed gourd | Vegetative stage  | Downy mildew       | Apply Ridomil@2g/lit of water at late afternoon after the rains   |
| Fishery       | <b>Fishery Management:</b> 1. Use of lime at every week @1.2kg/decimal. 2. For any bacterial disease infection Dip treatment of fish in coppersulphate @5mg/lit of water for 1 minute. 3. Broadcast 6-7g potassium permanganate for decimal water body for continue 7 days at night. 4. For Ulcerative syndrome harvest all ate fish from pond. |                    |   |
| General       | Postpone spraying operations if any after the rains. No need to give irrigation to the standing crops.  |                    |   |

## Andaman & Nicobar Islands

### For North and Middle Andaman

| Crop/Livestock | Stage    | Weather based agro advisories   |
|----------------|----------|---|
| Vegetable      | Growing  | <ul style="list-style-type: none"> <li>Do weeding and earthing up in cauliflower and cabbage and provide light irrigation.</li> </ul>                             |
| Vegetable      | Fruiting | <ul style="list-style-type: none"> <li>Collect and destroy fallen fruits with borehole in cucurbits and spray neem oil @ 3.0 % to control fruit flies.</li> </ul> |
| Poultry        | All      | <ul style="list-style-type: none"> <li>Provide cool drinking water with electrolyte to the poultry birds to</li> </ul>  |

reduce mortality as weather is likely to be dry.

**For South Andaman**

| <b>Crop/Livestock</b> | <b>Stage</b> | <b>Weather based agro advisories</b>  |
|-----------------------|--------------|---|
| Vegetable             | Growing      | <ul style="list-style-type: none"><li>• Do weeding and earthing up in cauliflower and cabbage and provide light irrigation.</li></ul>                                   |
| Vegetable             | Fruiting     | <ul style="list-style-type: none"><li>• Collect and destroy fallen fruits with borehole in cucurbits and spray neem oil @ 3.0 % to control fruit flies.</li></ul>       |
| Poultry               | All          | <ul style="list-style-type: none"><li>• Provide cool drinking water with electrolyte to the poultry birds to reduce mortality as weather is likely to be dry.</li></ul> |

**For Nicobar**

| <b>Crop/Livestock</b> | <b>Stage</b> | <b>Weather based agro advisories</b>  |
|-----------------------|--------------|---|
| Coconut               | All          | <ul style="list-style-type: none"><li>• Make basin around the coconut tree to harvest rain water and cover with husk as light rainfall is expected.</li></ul>           |
| Poultry               | All          | <ul style="list-style-type: none"><li>• Provide cool drinking water with electrolyte to the poultry birds to reduce mortality as weather is likely to be dry.</li></ul> |

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