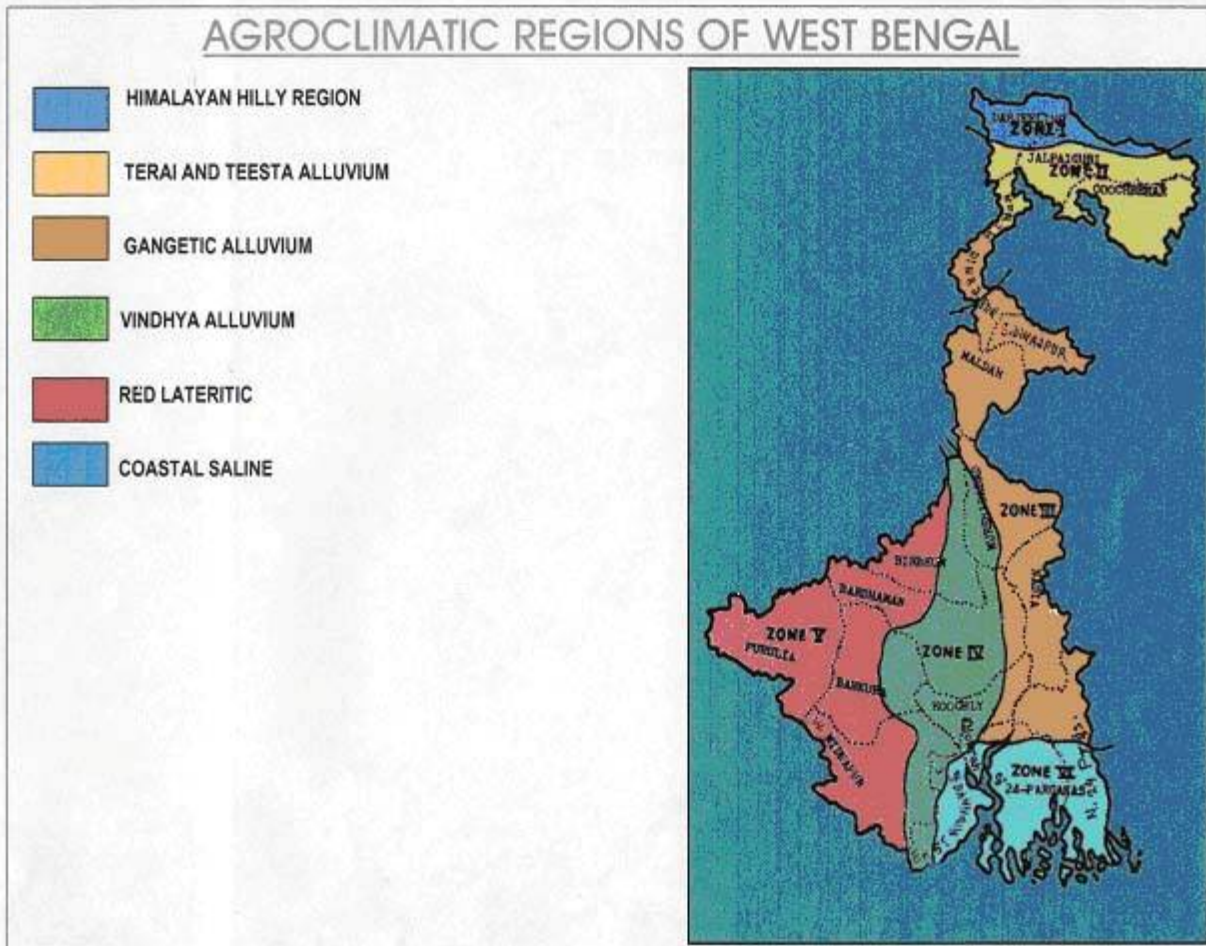


# AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 24<sup>th</sup> November '2018 to 28<sup>th</sup> November '2018



Issued on  
**Friday, 23<sup>rd</sup> November '2018**

## 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):

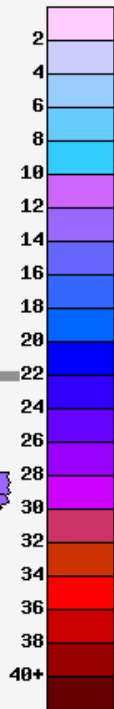
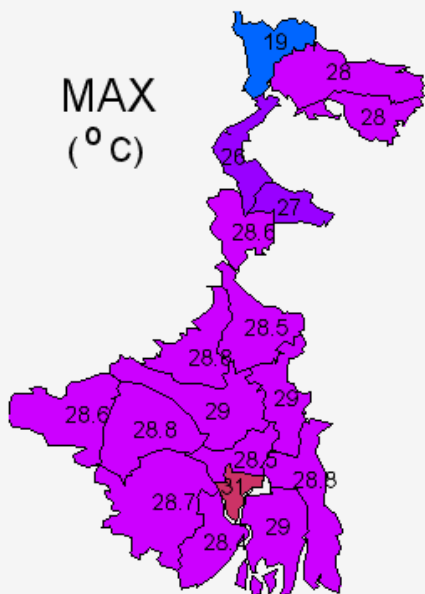
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad , Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Purba Midnapore, Kolkata , Burdwan.

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

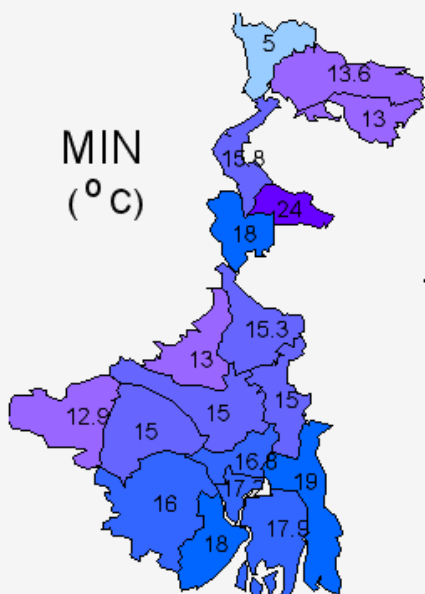
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Valid up to : Saturday 24th November 2018, 0830 hrs IST

MAX  
(°C)

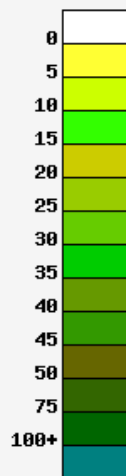
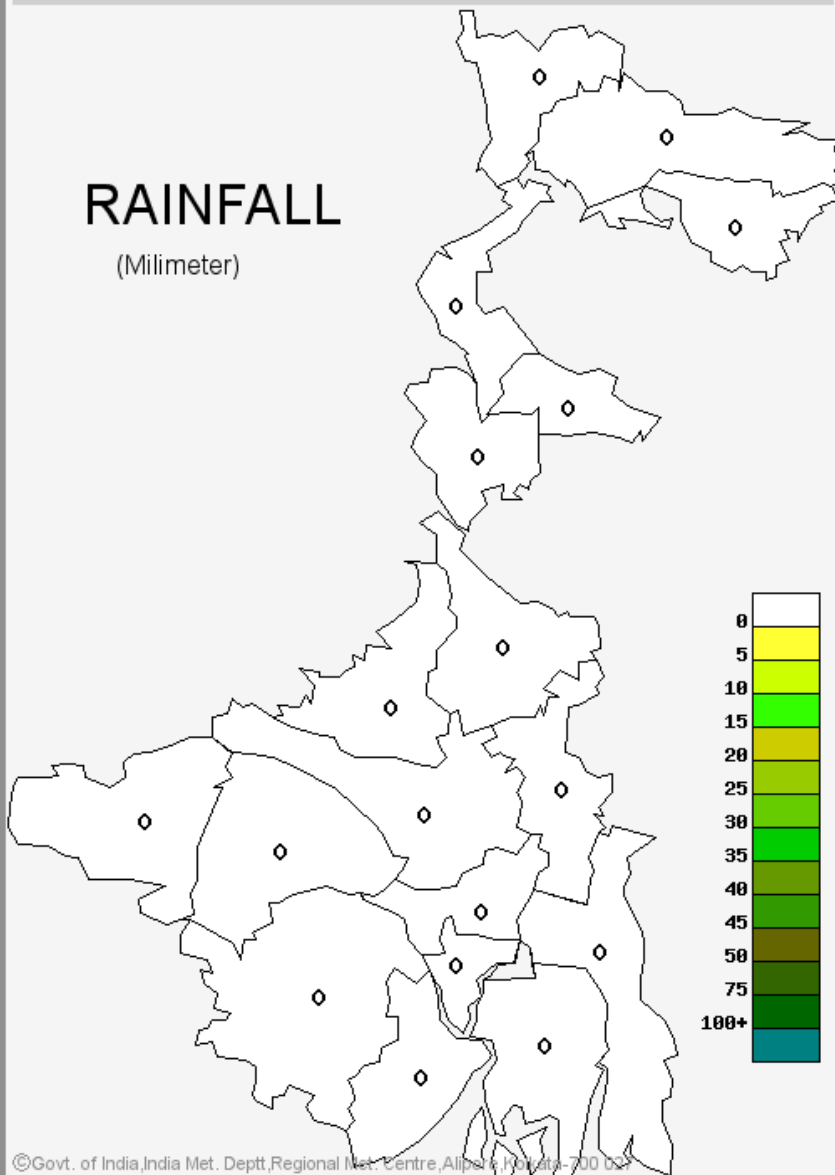


MIN  
(°C)



## RAINFALL

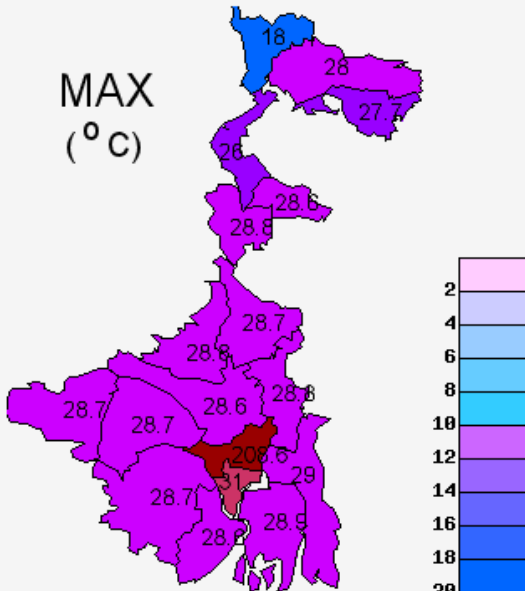
(Milimeter)



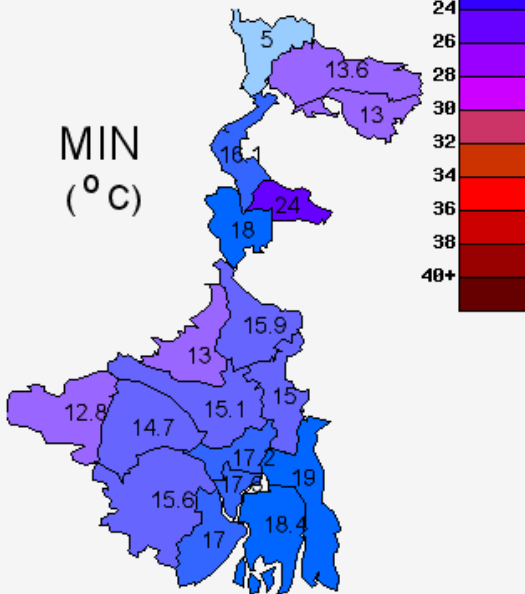
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MAX  
(°C)

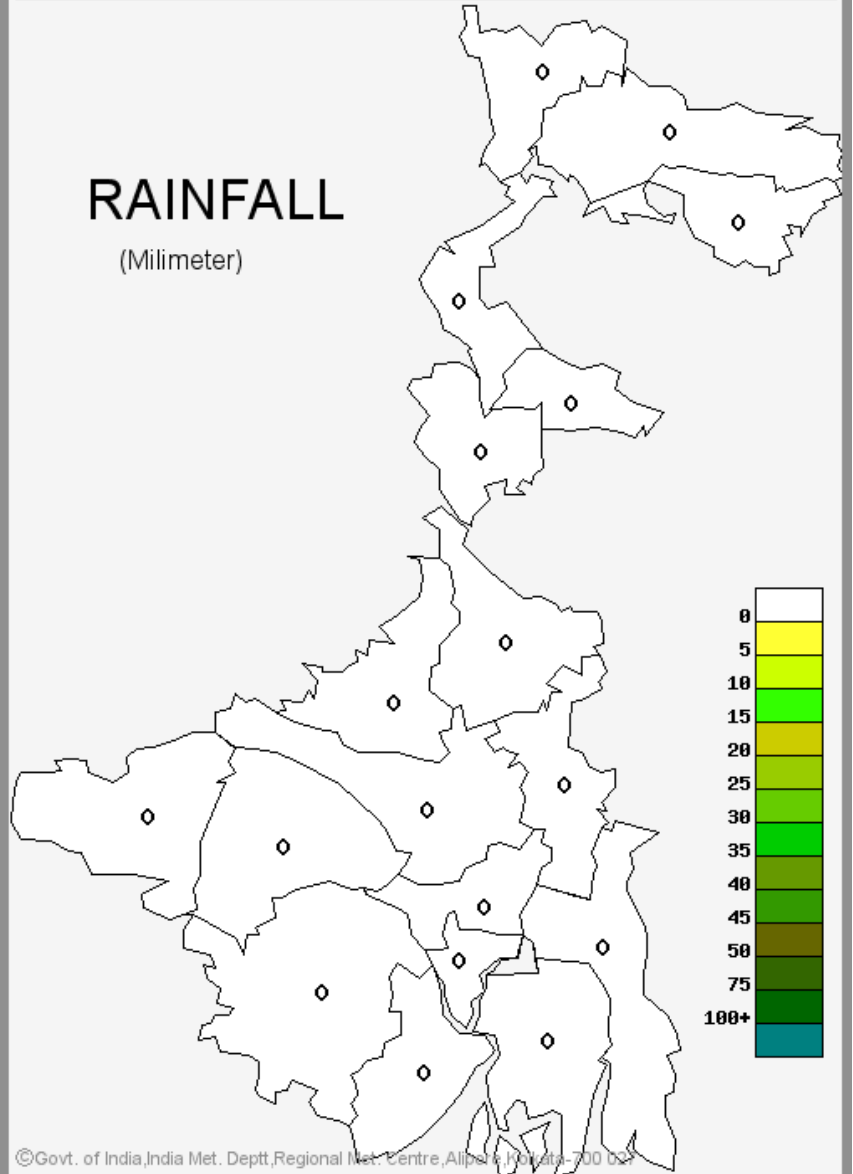


MIN  
(°C)



RAINFALL

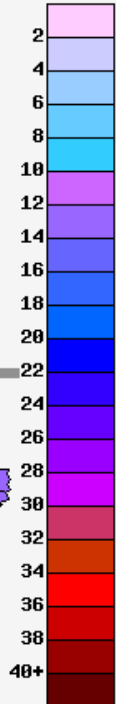
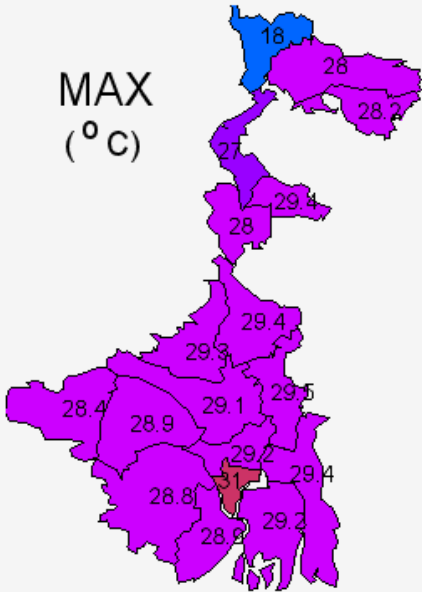
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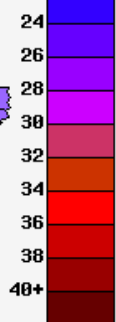
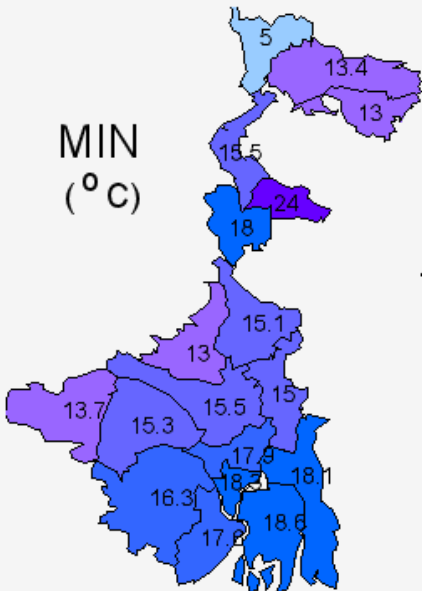
# DAY 3 FORECAST

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MAX  
(°C)

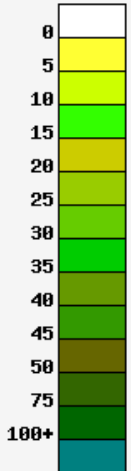
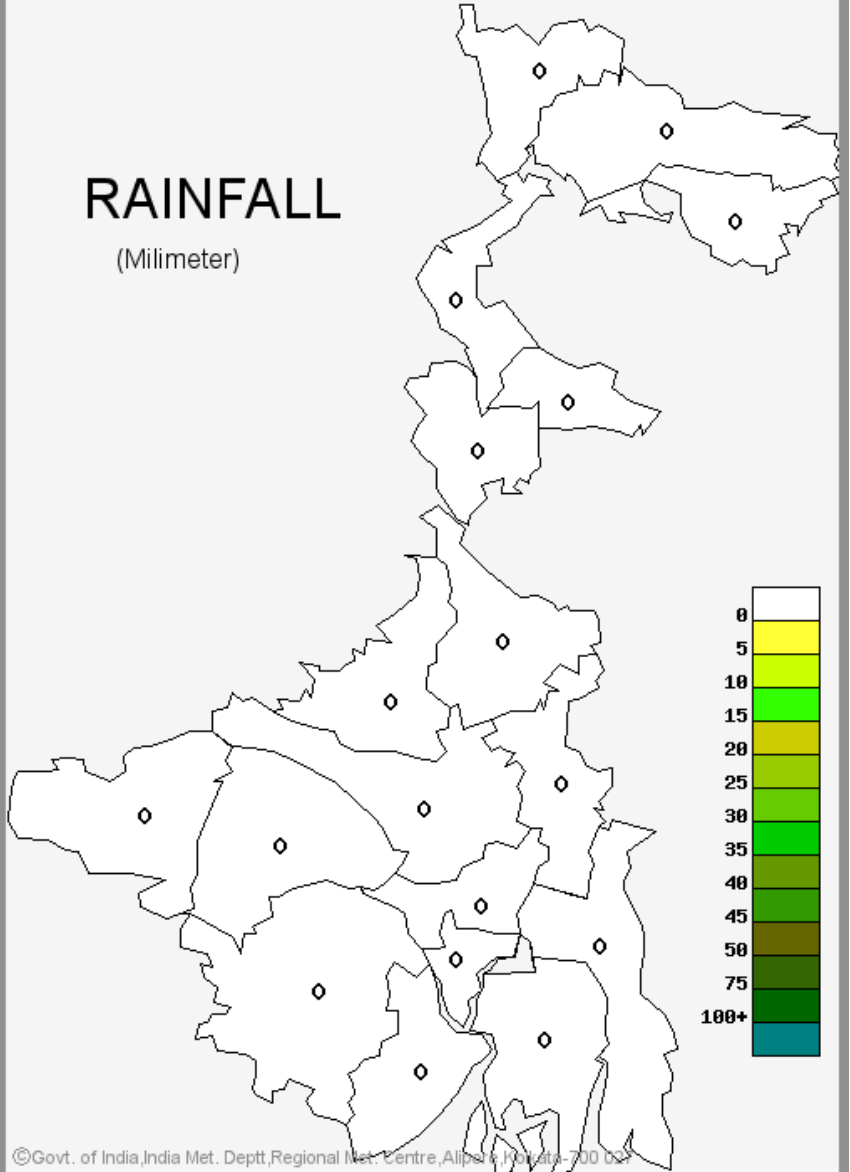


MIN  
(°C)



## RAINFALL

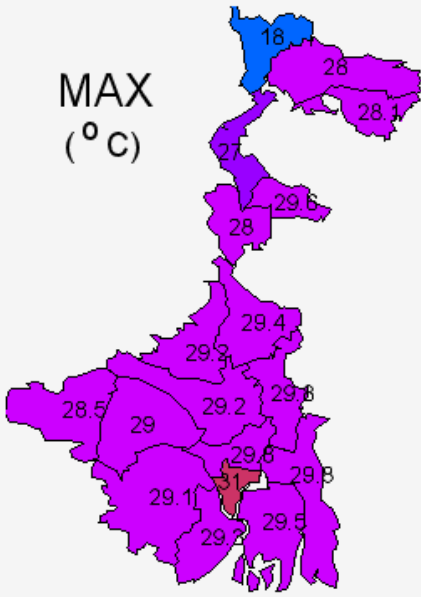
(Millimeter)



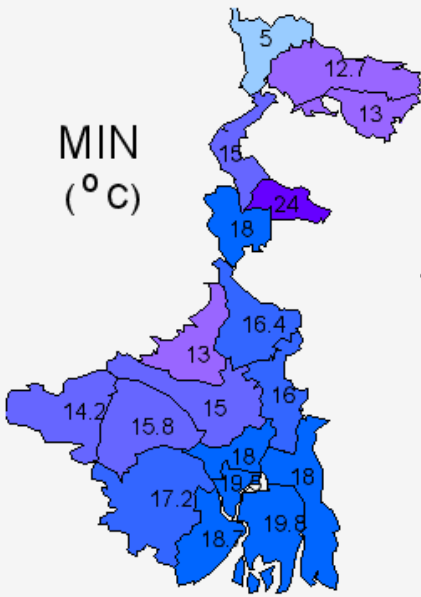
# DAY 4 FORECAST

Valid up to :Tuesday 27th November 2018,0830 hrs IST

MAX  
(°C)

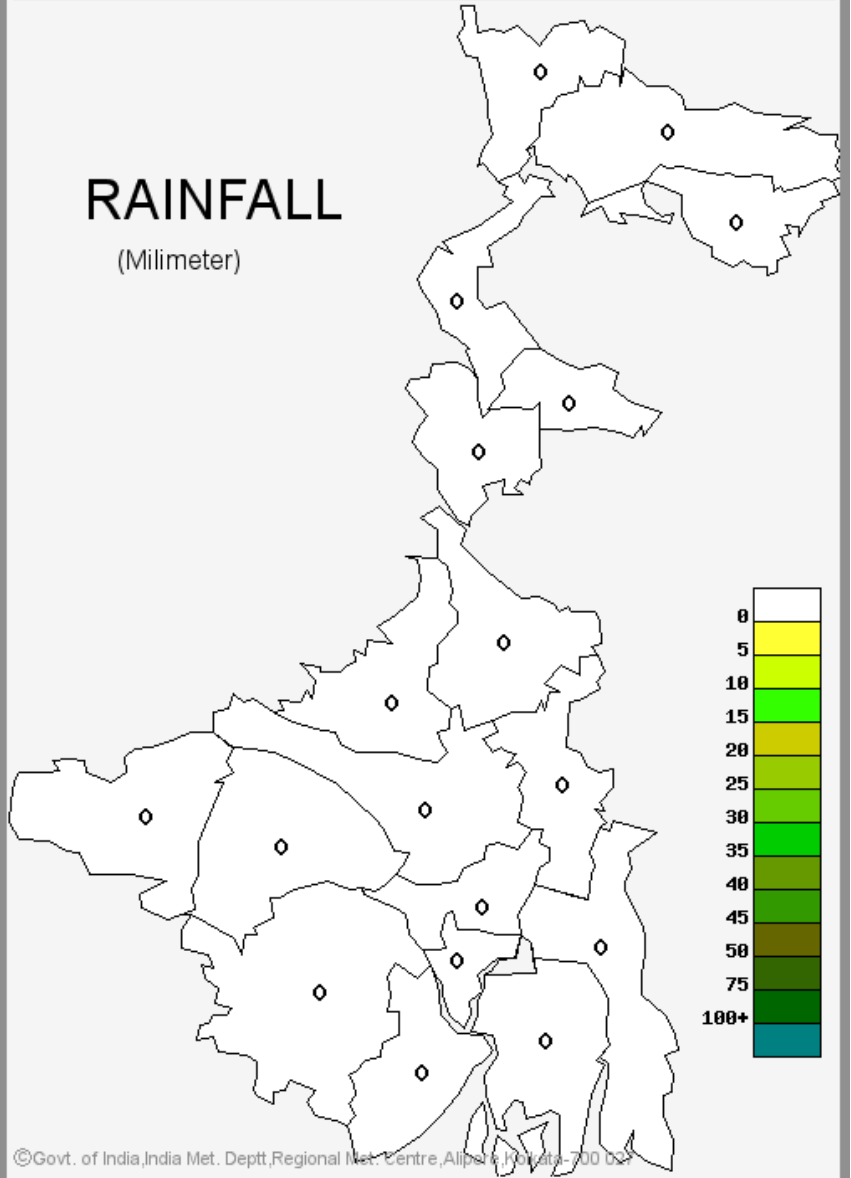


MIN  
(°C)



## RAINFALL

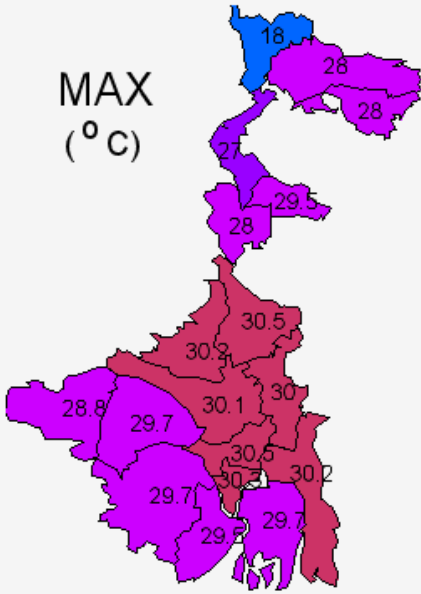
(Milimeter)



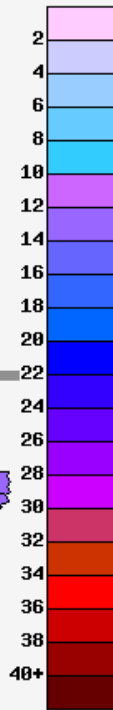
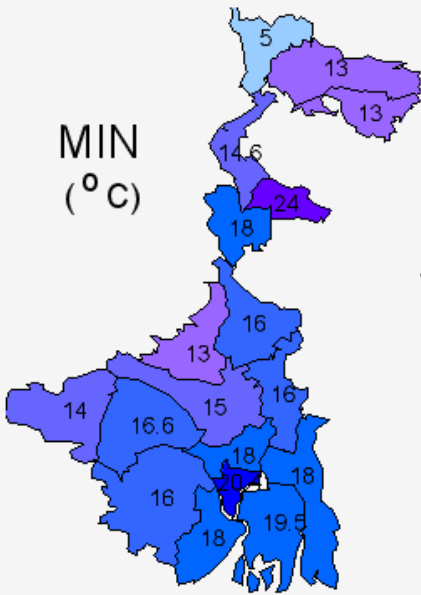
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Valid up to :Wednesday 28th November 2018,0830 hrs IST

MAX  
(°C)

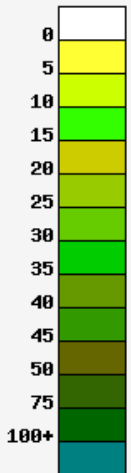
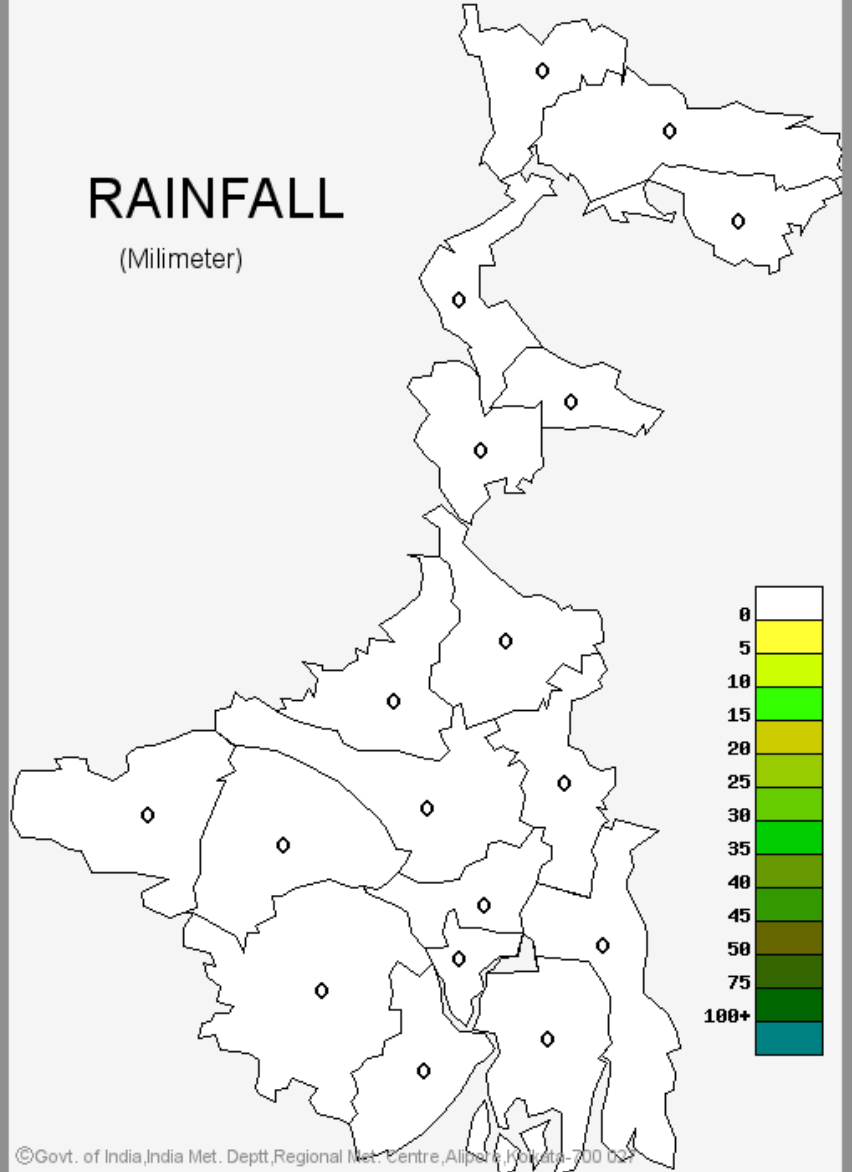


MIN  
(°C)



## RAINFALL

(Milimeter)



## Part I: Weather

*Districtwise significant Past Weather in different agroclimatic zones for the period 20/11/18 to 22/11/18*

*District level Weather Forecast for different agroclimatic zones for the period 24/11/18 to 28/11/18*

### West Bengal

#### Northern Hill Zone

##### DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	17-19	4-5	70-90
Wednesday	0.0			
Thursday	0.0			

##### DARJEELING

Rainfall	Possibilities no rainfall are expected for coming five days. In next five days total rainfall of 0.0 mm is expected.
Cloud Cover	Possibilities of clear sky are expected for coming five days.
Max. Temp.	Maximum temperature is expected to be around 18 to 19°C.
Min. Temp.	Minimum temperature is expected to be around 5 to 5°C.
Max. RH	Maximum relative humidity is expected to be around 47- 75%.
Min. RH	Minimum relative humidity is expected to be around 22-40%.
Wind	Wind mainly will blow from easterly on 24 <sup>th</sup> Nov and rest of the day's wind mainly will blow from south-easterly direction. In coming five days wind mainly will blow with a speed of 6.9 - 8.5 km/hr is expected.

#### Terai-Teesta Alluvial Zone

##### COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	12-13	80-90
Wednesday	0.0			
Thursday	0.0			

##### COOCHBEHAR

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> November.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> November.
- Wind north easterly from 24<sup>th</sup> to 28<sup>th</sup> November, average speed of 7-13 km/hr. is expected.
- Maximum temperature is expected to be around 28-28°C and minimum temperature is expected to be 13-13°C.
- Maximum and minimum relative humidity is expected to be 53-77% and 40-43% respectively.
- 

##### JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-29	13-14	80-90
Wednesday	0.0			
Thursday	0.0			

##### JALPAIGURI

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> November.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> November.
- Wind north easterly from 24<sup>th</sup> to 28<sup>th</sup> November, average speed of 6-8 km/hr. is expected.
- Maximum temperature is expected to be around 28-28°C and minimum temperature is expected to be 13-14°C.
- Maximum and minimum relative humidity is expected to be 48-73% and 22-41% respectively.
-



**NORTH DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	--	--	--
Wednesday	0.0			
Thursday	0.0			

**NORTH DINAJPUR**

- Clear sky will remain from 24<sup>th</sup> to 28<sup>th</sup> November.
- No rainfall will occur from 24<sup>th</sup> to 28<sup>th</sup> November.
- Wind easterly from 24<sup>th</sup> to 25<sup>th</sup> November and north easterly from 26<sup>th</sup> to 28<sup>th</sup> November, average speed of 6-12 km/hr. is expected.
- Maximum temperature is expected to be around 26-27°C and minimum temperature is expected to be 15-16°C.
- Maximum and minimum relative humidity is expected to be 54-72% and 31-38% respectively.
- 

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-31	15-17	75-80
Wednesday	0.0			
Thursday	0.0			

**BURDWAN**

Partly cloudy to clear sky is expected during next days .

No rainfall is expected during next few days .

Wind flow mainly from SW, NW & E direction with 6.9.0 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 55-62% and minimum relative humidity is expected to be around 27% - 33%.

Maximum temperature is expected to be around 28.6°C - 29.2°C and minimum temperature is expected to be around 14.4°C – 16°C.

**MURSHIDABAD**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-29	15-15	70-85
Wednesday	0.0			
Thursday	0.0			

**MURSHIDABAD**

No rainfall is expected during next.

Clear to partly cloudy sky is expected during next few days.

Wind flow mainly from NW,SW,NE & N direction with 7.3 – 10.3 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 52-68% and minimum relative humidity is expected to be around 29% - 34%.

Maximum temperature is expected to be around 28.5 °C - 29.4°C and minimum temperature is expected to be around 15.1°C -16.4°C

**NADIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-30	14-17	70-95
Wednesday	0.0			
Thursday	0.0			

**NADIA**

No rainfall is expected during next few day.

Clear to partly cloudy sky is expected during next few days.

Wind flow mainly from SE & NW direction with 5.8 - 10.1km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 54-67% and minimum relative humidity is expected to be around 29% - 32%.

Maximum temperature is expected to be around 28.6 °C - 29.8 °C and minimum temperature is expected to be around 15.6°C -17.5°C

**HOOGHLY**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-31	17-18	55-80
Wednesday	0.0			
Thursday	0.0			

**HOOGHLY**

No rainfall is expected during next few days .

Partly cloudy to clear sky is expected during next few days.

Wind flow mainly from NW, W,N & NE direction with 5.3 -10 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 55% - 65% and minimum relative humidity is expected to be around 28% - 34%.

Maximum temperature is expected to be around 28.5 °C - 29.8 °C and minimum temperature is expected to be around 16.8°C -18.9°C

**HOWRAH**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	31-32	17-20	75-90
Wednesday	0.0			
Thursday	0.0			

**HOWRAH**

No rainfall is expected during next few days .

Partly cloudy to clear sky is expected during next few days.

Wind flow mainly from N, E & NW direction with 5.3 - 10.6 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 50% - 64% and minimum relative humidity is expected to be around 28% - 36%.

Maximum temperature is expected to be around 28.5 °C - 29.8 °C and minimum temperature is expected to be around 17.2°C -19.5°C

**NORTH 24 PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-32	17-19	50-75
Wednesday	0.0			
Thursday	0.0			

**NORTH 24 PGS**

No rainfall is expected during next few days .

Partly cloudy to clear sky is expected during next few days.

Wind flow mainly from NW, S, NE & W direction with 6.9- 10.1 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 54% - 67% and minimum relative humidity is expected to be around 29% - 35%.

Maximum temperature is expected to be around 28.8 °C - 29.8 °C and minimum temperature is expected to be around 17.5°C -19.3°C

**Vindhyan Alluvial Zone**

**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	11-13	75-90
Wednesday	0.0			
Thursday	0.0			

**DAKSHIN DINAJPUR**

- Possibility of mainly clear sky on 24<sup>th</sup> November and clear sky on 25<sup>th</sup> to 28<sup>th</sup> November.
- There seems to be possibility of no rainfall on 24<sup>th</sup> November to 28<sup>th</sup> November.
- Wind from Easterly and North-easterly direction with an average speed of 5.6-11.0 Km/hr. is expected.
- Maximum temperature is expected to be around 28.4-29.5<sup>0</sup>C and minimum temperature is expected to be 14.0-15.0<sup>0</sup>C.
- Maximum and minimum relative humidity is expected to be 61-71 % and 33-39 %, respectively.

**MALDA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	18-18	70-86
Wednesday	0.0			
Thursday	0.0			

**MALDA**

- Possibility of mainly clear sky on 24<sup>th</sup> November and clear sky on 25<sup>th</sup> to 28<sup>th</sup> November.
- There seems to be possibility of no rainfall on 24<sup>th</sup> November to 28<sup>th</sup> November.
- Wind from North-westerly and North-easterly direction with an average speed of 6.8-9.8 Km/hr. is expected.
- Maximum temperature is expected to be around 28.0-28.6 and minimum temperature is expected to be 18.0C.
- Maximum and minimum relative humidity is expected to be 57-69 % and 31-36 %, respectively.

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-30	18-22	75-91
Wednesday	0.0			
Thursday	0.0			

**PURBA MIDNAPUR**

- No rainfall is predicted in the next five days.
- Sky will mainly clear in the next five days.
- Wind speed will be 6.8-10.5km/sec. and the predominant wind direction will be Northerly.
- Maximum temperature is expected to be around 28.2<sup>0</sup>C -29.7<sup>0</sup>Cand minimum temperature is likely to be around 16.2<sup>0</sup>C-18.3<sup>0</sup>C.
- Maximum and minimum relative humidity will be in the range of 51% -77%and 29% -38%.
- 

**SOUTH 24-PGS**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-31	18-20	50-77
Wednesday	0.0			
Thursday	0.0			

**SOUTH 24-PGS**

- No rainfall is predicted in the next five days.
- Sky will mainly clear in the next five days.
- Wind speed will be 8.0-10.9km/sec. and the predominant wind direction will be Northerly.
- Maximum temperature is expected to be around 28.8<sup>0</sup>C -29.9<sup>0</sup>Cand minimum temperature is likely to be around 17.9<sup>0</sup>C-19.3<sup>0</sup>C.
- Maximum and minimum relative humidity will be in the range of 50% -70%and 31% -43%.

**Undulating Red and Laterite Zone**

**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	29-31	16-19	50-80
Wednesday	0.0			
Thursday	0.0			

**PASCHIM MIDNAPORE**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 5.7-8.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 51-74 % and minimum will be 27-37%
- Maximum temperature will be 28.5-29.9°C and minimum will be 15.2-16.4°C.
- 

**BANKURA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-32	15-16	60-80
Wednesday	0.0			
Thursday	0.0			

**BANKURA**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 5.5-8.4 km per hour will blow for coming five days.
- Relative humidity maximum will be 51-63 % and minimum will be 23-33%
- Maximum temperature will be 28.6-30°C and minimum will be 14.6-16.6°C.
- 

**PURULIA**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-31	13-15	50-80
Wednesday	0.0			
Thursday	0.0			

**PURULIA**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 5.5-9.1 km per hour will blow for coming five days.
- Relative humidity maximum will be 47-63% and minimum will be 22-30%
- Maximum temperature will be 28.6-29.9°C and minimum will be 12.8-14.6°C.

**BIRBHUM**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	30-31	12-15	70-82
Wednesday	0.0			
Thursday	0.0			

**BIRBHUM**

- No rainfall for the coming five days and completely clear sky will be present for the same.
- Predominant wind direction will be Northwesterly. Wind with a speed of 6.1-8.9 km per hour will blow for coming five days.
- Relative humidity maximum will be 50-66% and minimum will be 27-35%
- Maximum temperature will be 28.5-30.3°C and minimum will be 13°C.
- 

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

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	31-32	24-24	75-80
Wednesday	0.0			
Thursday	0.0			

**NORTH MIDDLE ANDAMAN**

. Partly cloudy weather with light rainfall is likely to occur during next five days. In North and Middle Andaman 20 mm of rainfall is expected during this period. The maximum temperature in North and Middle Andaman will be 29.8 to 30.3 °C with minimum temperature of 23.8 to 24.2 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 74 to 78 % and 67 to 71 % respectively in North and Middle Andaman. Wind speed of 10.3 to 15.8 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 47 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 29.9 to 30.4 °C with minimum temperature of 23.8 to 24.2 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 73 to 78 %, and 66 to 71 % respectively in South Andaman. Wind speed of 8.5 to 14.0 km/h is expected from North Easterly direction.

**NICOBAR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-33	23-23	70-95
Wednesday	0.0			
Thursday	0.0			

**NICOBAR**

- . Partly cloudy weather with moderate rainfall is likely to occur during next five days. In Nicobar Islands 31 mm of rainfall is expected during this period. The maximum temperature will be 29.6 to 29.9 °C with minimum temperature of 24.5 to 24.8 °C, whereas the maximum and minimum relative humidity is expected to be 72 to 82 %, and 68 to 78 %, respectively in Nicobar Islands. Wind speed of 8.5 to 15.2 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 no rainfall has been forecasted so, irrigate the crops as per the requirement. Agricultural vigour is moderate condition in Darjeeling district according to the Normalized Difference Vegetation Index (NDVI) map from 12 <sup>th</sup> Nov to 18 <sup>th</sup> Nov, 2018 According to the Standardized Precipitation Index (SPI) map cumulative four weeks for the period from 25 <sup>th</sup> Oct to 21 <sup>st</sup> Nov, 2018 Darjeeling district experienced mildly dry condition.
Large cardamom	Vegetative Stage	-	Manuring followed by irrigation should be done.
Mandarin Orange	Vegetative and bearing tree	-	Fruit should be guarded against fruit sucking moth and fallen fruit should be collected and destroyed. Spraying of 2, 4-D or NAA (0.5%) with 2% urea + Carbendazim 1gm/lit of water to reduce fruit drop.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants

			should be done.
<b>Rice</b>	Milking Stage	-	Irrigation should be given as per the requirement.
<b>Cole Crop (Cauliflower, Cabbage, etc)</b>	Planting stage	-	Planting of cole crops should be done with desirable moisture in the soil.
<b>Potato</b>	Land Preparation		During land preparation all the weeds and previous crops stubble should be removed from field. Before sowing of tubers full dose of FYM @ 10 ton/ha and 1/3 dose of nitrogen (66kg/ha) and full dose of phosphorus (150kg/ha) and 1/3 dose potassium (50kg/ha) should be incorporated to the soil.
<b>Garden Pea</b>	Sowing stage		Sowing should be done with desirable moisture in the soil.
<b>Animal Husbandry (Cattle)</b>	-	-	Calf should be feed with calf starter for 3-4 days after birth. This will enhance digestive system and help to maintain body heat during winter.

## Terai-Teesta Alluvial Zone

### Advisory

**General** According to NDVI map agriculture vigour is moderate, dated 12.11.2018 to 18.11.2018. The actual Standardized Precipitation Index (SPI) map cumulative Cumulative 4 weeks for the period 25<sup>th</sup> October to 21<sup>st</sup> November 2018, Uttar Dinajpur district mildly dry conditions.

### Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
<b>Lentil</b>	Sowing		If already harvesting of paddy is done go for sowing of lentil. Before sowing seed treatment with carbendazim @ 2g/kg should be done. Also treatment with Rhizobium culture is compulsory.
<b>Ginger, Turmeric</b>		<b>Rizome rot</b>	Earthingup, weeding and drainingout 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>	Apply Potassic fertilizer. 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>Cucurbits</b>	Fruiting	<b>Fruit Fly Fruit &amp; Vine rot White fly, Downy mildew</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 downy mildew yellowish patches develop on upper surface of the leaf, below which whitish fungal growth seen. In such symptom apply Azoxystrobin @ 1 mili/ lit. of water.
<b>Brinjal</b>	Vegetative Fruiting	<b>fruit and shoot borer Nematode White fly, Jassid</b>	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 in care of 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 rot nematode. For white fly and jassid, apply Acetamiprid 20% SP@1g/3lit or Thiomithoxam 0.3 SG 1g/3lit of water.
<b>Chilli</b>	vegetative	<b>Aphid, hoppers, white fly, Thrips Yellow mite,</b>	For Aphid, hoppers, white fly and thrips apply Imidaclorprid 17.8 SL@1ml/5lit. of water or thiomethoxam @1g/3lit of water. For yellow mite apply propergite 2.5 ml/lt. of water.
<b>Lentil</b>	Sowing		If already harvesting of paddy is done go for sowing of lentil. Before sowing seed treatment with carbendazim @ 2g/kg should be done. Also treatment with Rhizobium culture is compulsory.

### ANIMAL HUSBANDRY & FISHERY

Name of Animal	Disease	Control measures
<b>Cattle and Buffalo</b>	Non specific Diarrhoea, FMD	The cattle population are supposed to suffer from non-specific diarrhea during this, mid rainy season due to water borne infections. Any gut acting antibacterials

		along with remonetric preparation may lead to satisfactory result. FMD may also consider during this hot humid condition. Appropriate Vaccination coverage. Anthelminitics of course for animals in proper doses is also advisable for better production potentials.
Chicken	pox	Care for day old chiks with proper brooding, ventilation and management may arrangement reduce the mortality percent. A course of antibacterial for 3-5 days is recommended for pasting vent condition. Immunization against ND (Ranikhet) recommended as scheduled.

## Gangetic Alluvial Zone

Crop	Stage	Advisory
Kharif rice	Maturing & Harvesting Stage	Keeping view in weather, harvesting of mature rice crop in this week may be done for short duration varieties.. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done. Before storing, grains should be dried to bring down moisture level below 12 %.In the areas where paddy crop is about to mature, irrigation should be stopped two weeks before harvesting. Medium and long duration varieties may be harvested after 15 <sup>th</sup> Nov depending upon maturity of the crop. After harvesting crop should be dried in the field for 2-3 days and thereafter threshing should be done. Grains should be properly dried to right moisture level before storing.
Mustard	Sowing	Keeping temperature in view sowing of mustard should be done as earliest. After ploughing the field planking should be done. Seed rate: 1.5-2 kg per acre. Moisture level in the soil should be appropriate for proper germination; otherwise apply pre sowing irrigation. Before sowing seeds should be treated with Thiram or Captan @ 3.0 g/ kg of seeds. Line sowing is beneficial. In non-spreading varieties, row to row spacing should be 30 cm and in spreading cultivars spacing should be 45-50 cm. After germination, plant to plant spacing should be maintained at 12-15 cm by thinning. Before sowing, soil testing for sulfur should be done and in deficient areas 20 kg sulfur per hectare should be applied at last ploughing..
Gram	Sowing	Sowing of gram should be done in this week. Seed rate: - 60-80 kg for small and medium sized varieties and 80-100 kg for big sized varieties. R x R spacing to be maintained 30-35 cm. Varieties:- Kabuli type - Pusa 267, Pusa 1003, Pusa Chamatkar; local type – C235, Pusa 246, P.B.G. 1, Pusa 372. Before sowing, seed should be treated with <b>Rhizobium</b> culture and phosphate solubilising bacteria.
Field Pea	Sowing	Keeping view in weather, sowing of pea should not be delayed as late sowing reduces the seed yield and exposes the crop to insect damage. Recommended cultivars: VL-42, IPFD10-12 etc. Seed should be treated with fungicides, Captan or Thiram @ 3.0 g/kg and after that with crop-specific <b>Rhizobium</b> culture. A solution of jaggary and water after boiling should be allowed to cool down and then seeds along with <b>Rhizobium</b> should be thoroughly mixed. The mixture should be allowed to dry in a shade. It is highly recommended that the treated seeds should be sown after 24 hours of treatment. Fertilizer dose: 25 : 60:40 kg/ha N:P:K.
Cabbage, Cauliflower, Broccoli, French	Vegetative	Transplanting of late variety seedlings of cauliflower, cabbage, broccoli and tomato may also be done in raised bed. Recommended spacing should be maintained. Spraying of solubor 10% @ 2.0 g/lt of water at 25, 35 and 45 days after transplanting in case of cauliflower and broccoli. Stem/rooted cuttings of pointed gourd may also be planted in the main field at this time. Seeds of french bean may

h bean, chilli Tomato, ,Pointed Gourd		be sown in the main field at a spacing of 45 x 30 cm. Variety- Contender, Phalguni. Chilli seedlings transplanted early may be sprayed with systemic insecticides like Imidacloprid @ 5.0 ml/15 lts of water for whitefly followed by Fipronil @ 2.0 ml/lts of water for thrips attack.
Potato	Sowing	Farmers are advised for planting of potato in between 15 <sup>th</sup> to 24 <sup>th</sup> Nov. N:P:K dose 200 : 150 : 150 kg / ha may give the good result . The crop matures in 80-90 days. Few recommended varieties:- Kufri Jyoti , Kufri Chandramukhi, Kufri Pukhraj, Kufri Himalini etc.
Rabi Onion & Garlic	Vegetative	Weather is suitable for sowing of rabi onion. Seed rate- 10 kg/ha. Before sowing seeds should be treated with Captan @ 3.0 g/ kg of seeds. Sowing of garlic can be done in raised bed. Application of FYM and sulphur fertilizer is recommended along with NPK.
Flowers like Marigold, Chrysanthemum & Gladiolus	Transplanting	Seedlings of chrysanthemum and marigold should be transplanted in raised bed at the earliest. Sowing of gladiolus corms should be done in prepared fields.
Palak, Radish, Fenugreek, Coriander, Turnip	Sowing	This weather is suitable time for seed sowing of Radish ,Palak, Fenugreek ,Coriander, Turnip.
Fishery	General	Apply Cow dung @ 100kg/bigha monthly basis in fish culture pond which enhance the growth of phytoplankton which will be consumed by fish.

## Coastal Saline Zone

Crop	Stage	Disease	Advisory
Aman paddy	grain filling		--Complete harvesting as early as possible --Collect seed from certified agency for boro paddy --Prepare nursery bed for boro paddy where irrigation facility available
Lathyrus, lentil, mustard			--Complete sowing within the last week of November
Bitter gourd, pointed gourd	Seedling	--Plants turn yellowish due to fungal attack	--Apply straw mulching --Spray Diethane M-45 during afternoon hours or late morning hours when fog will be disappear
Betelvine			--Keep the fencing tight --Cover the whole fencing by cotton cloths like sari for preventing strong Northern wind
Fishery	At all stage		--Remove all the bushes from the boundary area of pond for getting better sunlight --Use only floating food material

## Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
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<b>Paddy</b>	Harvesting		There seems to possibility of no rain during coming five days i.e. 24 <sup>th</sup> to 28 <sup>th</sup> November. Paddy harvesting should be done during this time.
<b>Lentil</b>	Seed sowing	--	If already harvesting of paddy is done go for sowing of lentil. Before sowing, seed treatment with carbendazim @ 2g/kg should be done. Also treatment with Rhizobium is compulsory.
<b>Cucumber</b>		Downey Mildew	To control Downey mildew of cucurbits spray Metaloxy + Mancozeb @ 2.5 g/lit. Of water.
<b>Winter Vegetables</b>	Seed sowing	--	Start sowing of winter vegetable seeds in the nursery bed. Before sowing the seed bed should be treated with fungicide, (copper-oxychloride) @ 4gram/liter of water to avoid damping off disease.
<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>Betel vine</b>			To protect the Boroz from cold weather covered the Boroz with paddy straw.
<b>Cattle</b>	--	--	Essential salts must be mixed with feed and given to the animals.
<b>Fishery</b>	Fish Feed	--	Apply Cow dung @ 100 kg/bigha monthly basis in fish culture pond as fish feed.

## Undulating Red and Laterite Zone

Crop	Stage	Problem	Advisory
<b>Wheat</b>	<b>Sowing</b>	---	Farmers are advised to give light irrigation to maintain the optimum moisture content in the soil. Apply fertilizer 17.3 kg Urea, 50 kg SSP and 8.8 kg Mop per bigha at the time of sowing. <b>Seed treatment:</b> Seed should be treated with Thiram @ 2g/kg of seeds.
<b>Potato</b>	<b>Planting</b>	---	Farmers are advised to give light irrigation to maintain the optimum moisture content in the soil. Apply fertilizer 17.4 kg Urea, 66 kg SSP and 13.5 kg Mop per bigha at the time of planting. <b>Seed treatment:</b> Potato tubers should be treated with Boric acid solution @ 30g/lit of water for 30 mins.
<b>Mustard</b>	<b>Seedling to rosette stage</b>	---	Give light irrigation to maintain the optimum moisture in the soil.
<b>Tomato</b>	<b>Fruit development</b>	<b>Fruit borer</b>	Collect and destroy the infected fruits. Spray Quinolphos 25 EC@ 1ml/lit of water at clear weather condition.
<b>Wheat</b>	<b>Sowing</b>	---	Farmers are advised to give light irrigation to maintain the optimum moisture content in the soil. Apply fertilizer 17.3 kg Urea, 50 kg SSP and 8.8 kg Mop per bigha at the time of sowing. <b>Seed treatment:</b> Seed should be treated with Thiram @ 2g/kg of seeds.
<b>General (NDVI, SPI)</b>	Crop coverage is good and soil is dry in condition for the district. No rainfall will occur and clear sky will be present for coming four days.		

## Andaman & Nicobar Islands

### For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> <li>Remove the fruit borer infected fruits in bhendi and cucurbits and destroy it.</li> </ul>

Vegetable	Flowering	<ul style="list-style-type: none"> <li>To control pod borer in cowpea, spray carbaryl @ 2 ml/lit with on set of flowering and continue spraying for thrice at weekly intervals.</li> </ul>
Poultry	Day Old	<ul style="list-style-type: none"> <li>Keep the poultry birds (day old chicks) under light preferably of 60 watt bulb at 1 ft above the floor.</li> </ul>

**South Andaman**

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> <li>Remove the fruit borer infected fruits in bhendi and cucurbits and destroy it.</li> </ul>
Vegetable	Flowering	<ul style="list-style-type: none"> <li>To control pod borer in cowpea, spray carbaryl @ 2 ml/lit with on set of flowering and continue spraying for thrice at weekly intervals.</li> </ul>
Poultry	Day Old	<ul style="list-style-type: none"> <li>Keep the poultry birds (day old chicks) under light preferably of 60 watt bulb at 1 ft above the floor.</li> </ul>

**For Nicobar**

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Fruiting	<ul style="list-style-type: none"> <li>Remove the fruit borer infected fruits in bhendi and cucurbits and destroy it.</li> </ul>
Poultry	Day Old	<ul style="list-style-type: none"> <li>Keep the poultry birds (day old chicks) under light preferably of 60 watt bulb at 1 ft above the floor.</li> </ul>

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