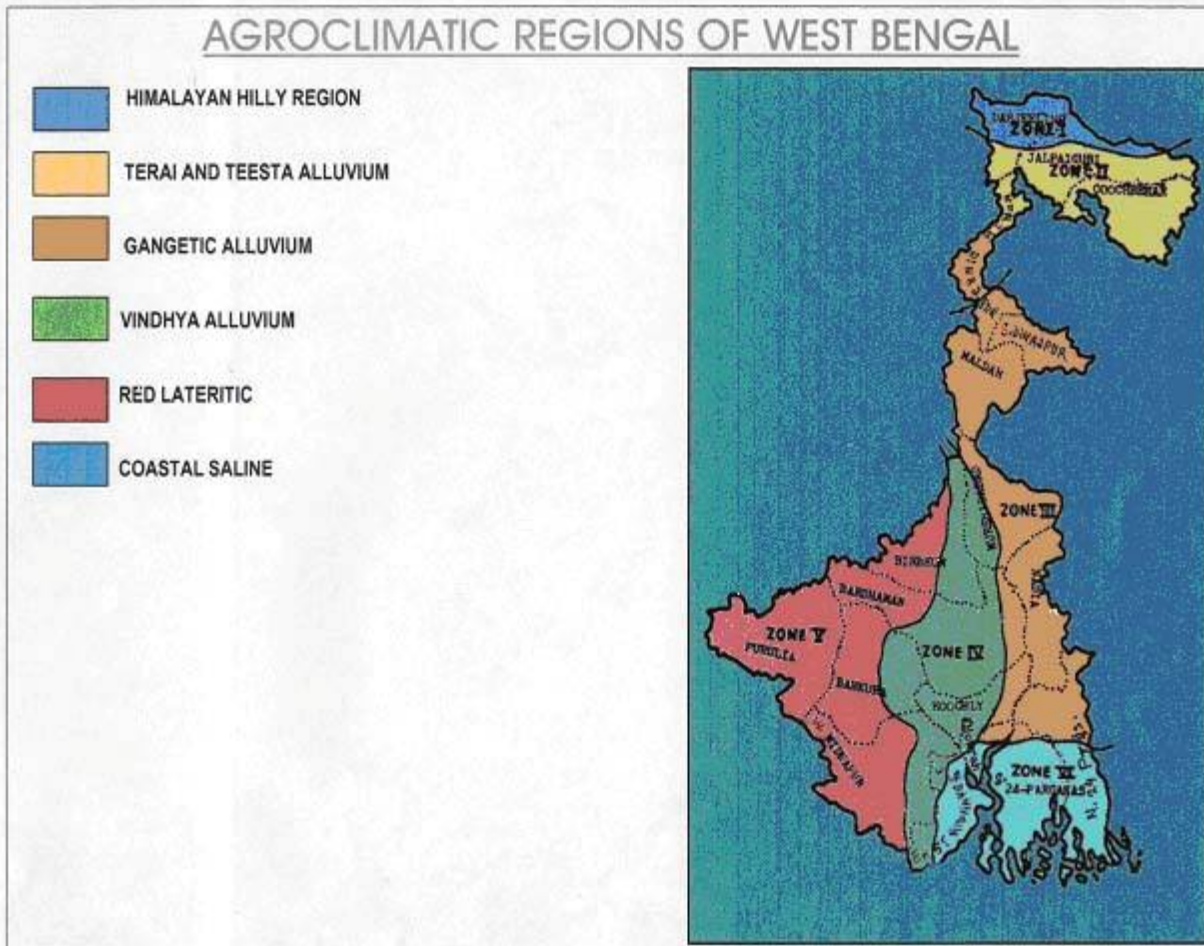


AGROMETEOROLOGICAL ADVISORY BULLETIN FOR THE STATE OF WEST BENGAL AND A&N ISLANDS

For the period from 15th December '2018 to 19th December '2018



Issued on
Friday, 14th December '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	Northern Hill Zone	Darjeeling	Kalimpong
2	Terai-Teesta Alluvial Zone	Jalpaiguri, Alipurduar, Coochbehar and Uttar Dinajpur.	Pundibari
3	Gangetic Alluvial Zone	Murshidabad, Nadia, North 24 Parganas, Howrah, Hooghly and Burdwan	Kalyani
4	Vindhyan Alluvial Zone	Dakhin Dinajpur, Malda	Majhian
5	Costal Saline Zone	South 24 Parganas and Purba Midnapore	Kakdeep
6	Undulating Red and Laterite Zone	Purulia, Bankura, Paschim Midnapore, Jhargram and Birbhum	Kharagpur

Met sub-divisions of the state

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

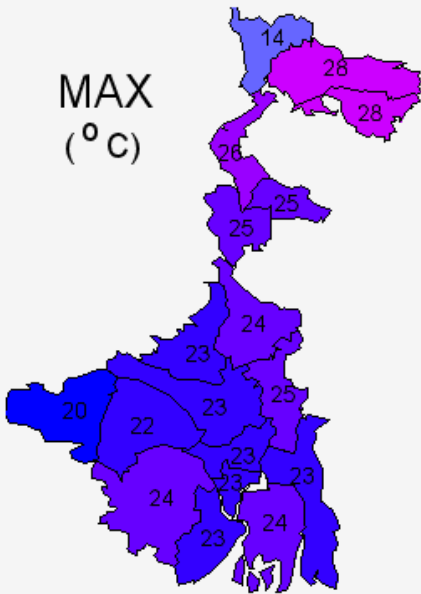
Gangetic West Bengal consists of Dakhin Dinajpur, Malda, Murshidabad, Nadia, South 24 Parganas, North 24 Parganas, Bankura, Purulia, Birbhum, Paschim Midnapore, Jhargram, Purba Midnapore, Kolkata, Burdwan.

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

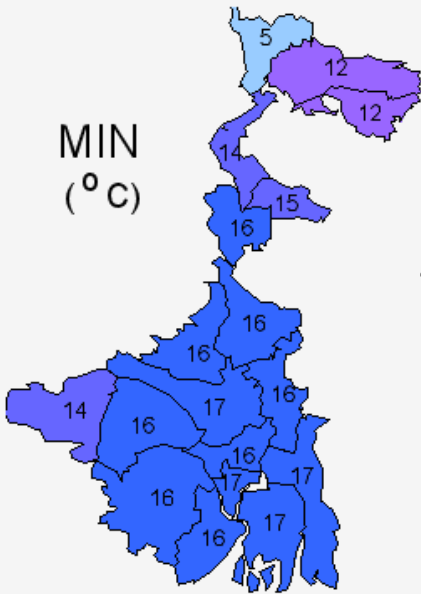
DAY 3 FORECAST

Valid up to :Monday 17th December 2018,0830 hrs IST

MAX
(°C)

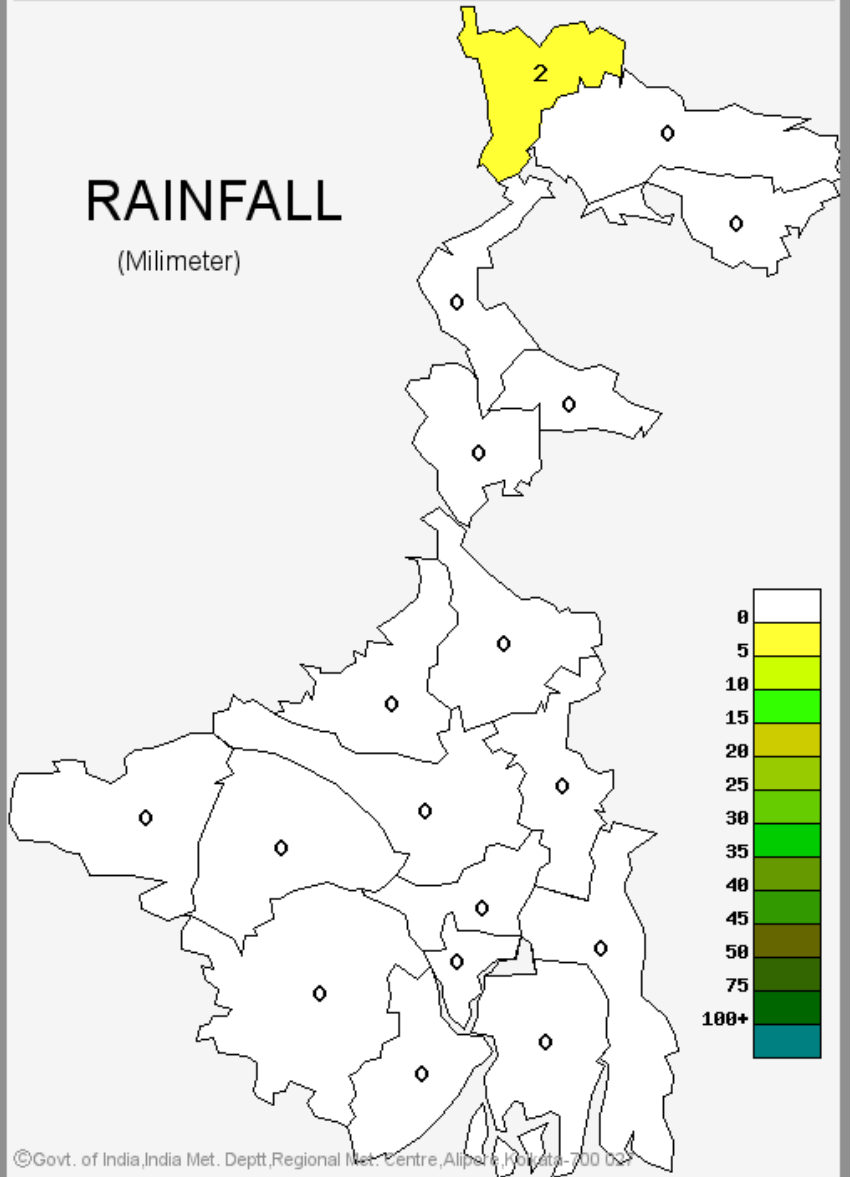


MIN
(°C)



RAINFALL

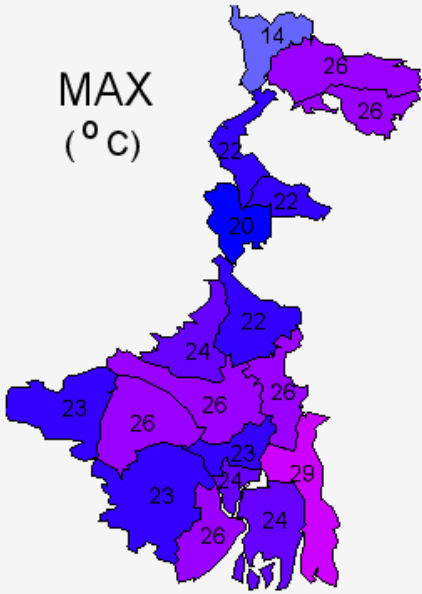
(Milimeter)



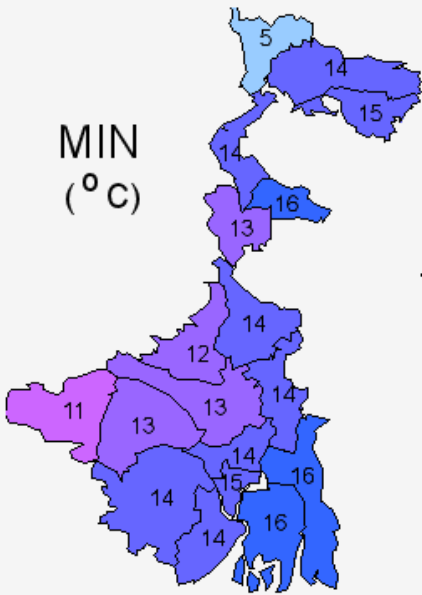
DAY 4 FORECAST

Valid up to :Tuesday 18th December 2018,0830 hrs IST

MAX
(°C)

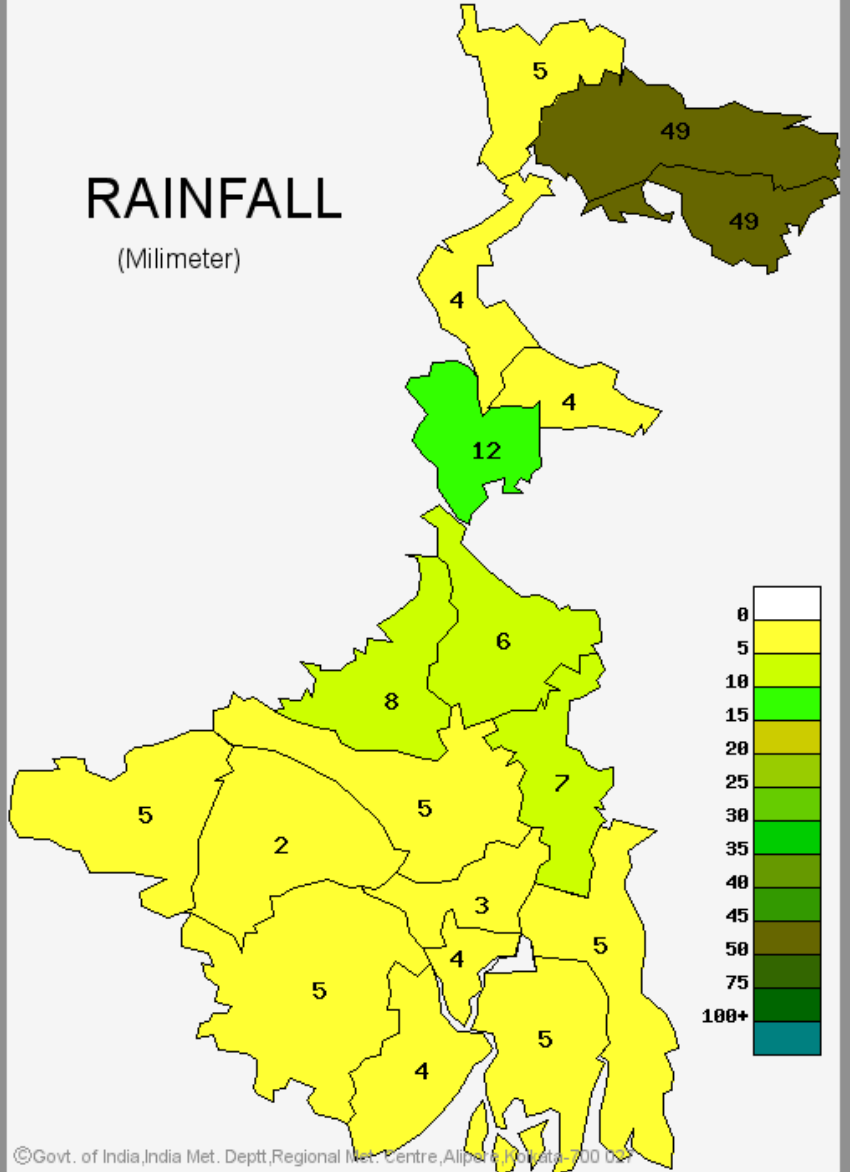


MIN
(°C)



RAINFALL

(Milimeter)

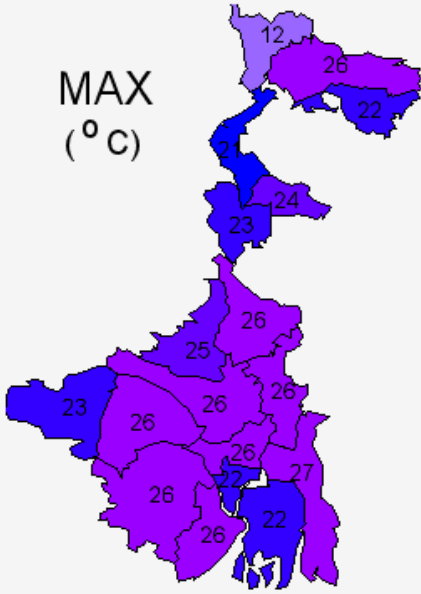


©Govt. of India, India Met. Deptt, Regional Met. Centre, Alipore, Kolkata-700 001

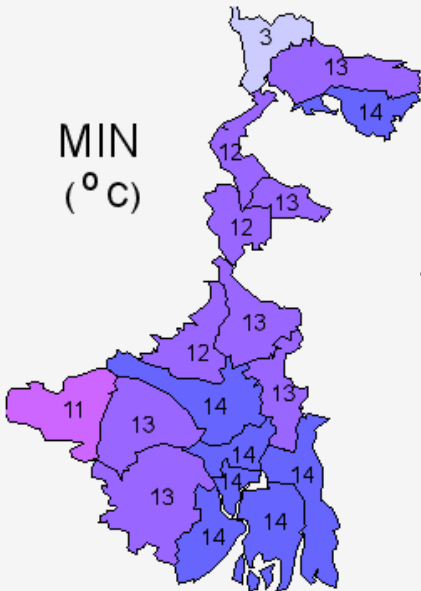
DAY 5 FORECAST

Valid up to :Wednesday 19th December 2018,0830 hrs IST

MAX
(°C)

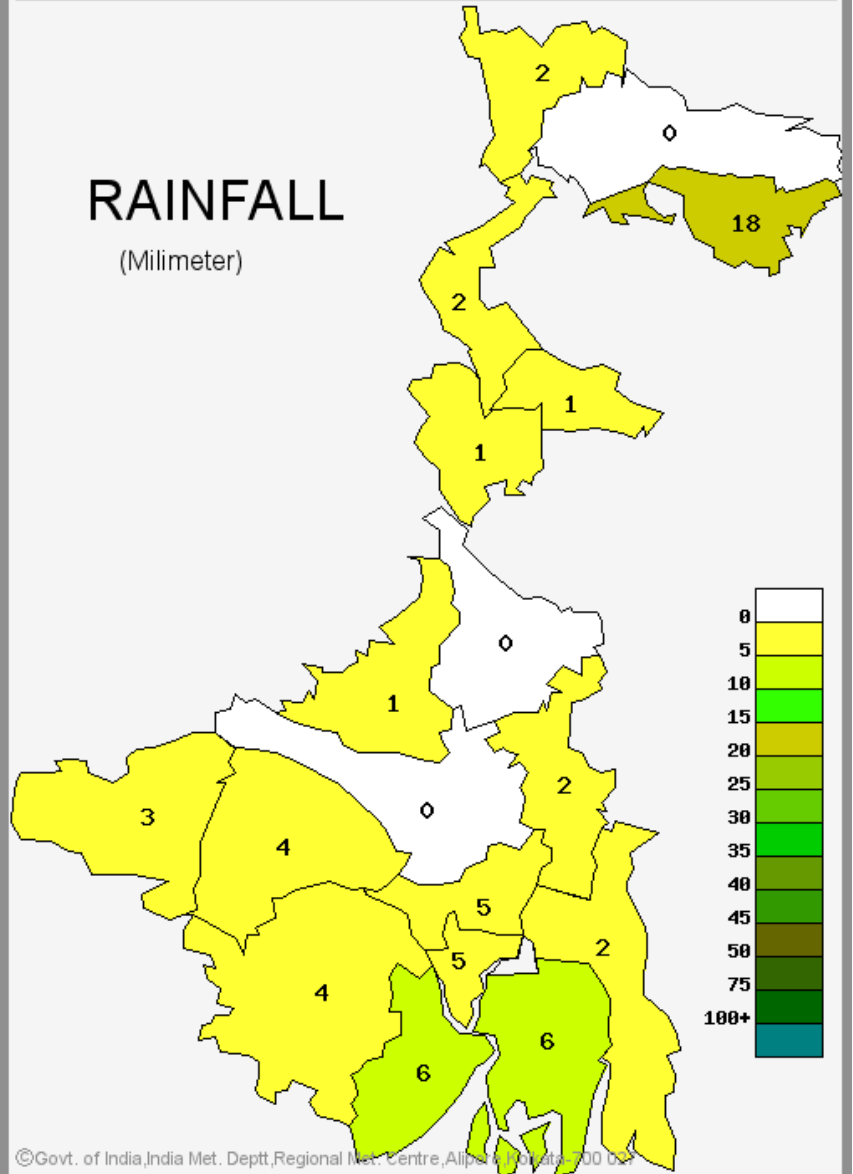


MIN
(°C)



RAINFALL

(Millimeter)



©Govt. of India, India Met. Deptt, Regional Met. Centre, Alipur Jalore 370 001

Part I: Weather

Districtwise significant Past Weather in different agroclimatic zones for the period 11/12/18 to 13/12/18

District level Weather Forecast for different agroclimatic zones for the period 15/12/18 to 19/12/18

West Bengal

Northern Hill Zone

DARJEELING

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	14-18	3-9	55-85
Wednesday	0.0			
Thursday	0.0			

DARJEELING

Rainfall	Possibilities light rainfall on 18 th Dec, very light rainfall on 19 th Dec and rest of the days no rainfall are expected. In next five days total rainfall of 7.0 mm is expected.
Cloud Cover	Possibilities of clear sky on 15 th Dec, mainly clear sky on 16 th Dec, mainly cloudy sky on 17 th Dec, cloudy sky on 18 th Dec and on 19 th Dec partly clear sky are expected.
Max. Temp.	Maximum temperature is expected to be around 12 to 14°C.
Min. Temp.	Minimum temperature is expected to be around 3.0 to 5.0°C.
Max. RH	Maximum relative humidity is expected to be around 41-89%.
Min. RH	Minimum relative humidity is expected to be around 21-71%.
Wind	Wind mainly will blow from westerly on 15 th Dec, southerly on 17 th Dec 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 4.3- 8.7 km/hr is expected.

Terai-Teesta Alluvial Zone

COOCH BEHAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25-28	9-10	55-85
Wednesday	0.0			
Thursday	0.0			

COOCHBEHAR

- Clear Sky on 15 December, Mainly Clear Sky 16 December, Mainly Cloudy Sky 17-19 December and Over cast Sky 18 December.
- Heavy rainfall will occur on 18th December and Moderate rainfall on 19th December.
- Wind North easterly from 15-16 December, South Easterly 17-18 December and Wind Westerly 19th December average speed of 7-10 km/hr. is expected.
- Maximum temperature is expected to be around 22⁰C-28⁰C and minimum temperature is expected to be 10⁰C-15⁰
- Maximum and minimum relative humidity is expected to be 41-95% and 27-81% respectively.
-

JALPAIGURI

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	11-11	55-70
Wednesday	0.0			
Thursday	0.0			

JALPAIGURI

- Clear Sky on 15 December, Mainly Clear Sky 16 December, Mainly Cloudy Sky 17-19 December and Over cast Sky 18 December.
- Heavy rainfall will occur on 18th December.
- Wind Easterly from 15th -17th December, and Wind Southerly from 18-19th December. average speed of 4-7 km/hr. is expected.
- Maximum temperature is expected to be around 26-28°C and minimum temperature is expected to be 11.°C-14.
- Maximum and minimum relative humidity is expected to be 39-95% and 24-82% respectively.
-

NORTH DINAJPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	11-11	55-90
Wednesday	0.0			
Thursday	0.0			

NORTH DINAJPUR

- Clear sky on 15 December, Mainly Clear Sky on 16 December, Over cast 17-18 December and Mainly Cloudy Sky 19 December. .
- Light Rainfall will occur on 18th December and 19th December Very Light Rainfall.
- Wind Westerly on 15th December ,Easterly 16-18th December, Southerly on 17 December and North Westerly 19 December. average speed of 6-10 km/hr. is expected.
- Maximum temperature is expected to be around 21-28°C and minimum temperature is expected to be 12-14°C.
- Maximum and minimum relative humidity is expected to be 37-87% and 21-78% respectively.
-

Gangetic Alluvial Zone**BURDWAN**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-28	14-16	65-75
Wednesday	0.0			
Thursday	0.0			

BURDWAN

Partly to mainly cloudy sky is expected during next days .

No rainfall is expected on 15th & 16th and medium rainfall is expected during next few days and total rainfall will be 77 mm .

Wind flow mainly from N, NW ,SW & NE direction with 9.9- 16.7 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 32-92% and minimum relative humidity is expected to be around 20% - 87%.

Maximum temperature is expected to be around 18°C - 29°C and minimum temperature is expected to be around 13°C – 18°C.

MURSHIDABAD

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-28	13-15	60-85
Wednesday	0.0			
Thursday	0.0			

MURSHIDABAD

No rainfall is expected on 15th, 16th Dec. and medium rainfall is expected during next three day. Total rainfall will be 49 mm .

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

Wind flow mainly from N & NE direction with 9.6 – 16.7 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 33-91% and minimum relative humidity is expected to be around 22% - 87%.

Maximum temperature is expected to be around 17 °C - 29°C and minimum temperature is expected to be around 11°C -17°C

NADIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-26	11-14	55-75
Wednesday	0.0			
Thursday	0.0			

NADIA

No rainfall is expected on 15th, 16th and medium rainfall is expected during next three day. Total rainfall will be mm .

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

Wind flow mainly from N, SW, S & NW direction with 11.3 – 17.7 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 34-92% and minimum relative humidity is expected to be around 23% - 85%.

Maximum temperature is expected to be around 18 °C - 23 °C and minimum temperature is expected to be around 13°C -18°C

HOOGLY

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-28	13-15	40-85
Wednesday	0.0			
Thursday	0.0			

HOOGLY

No rainfall is expected on 15th, 16th and medium rainfall is expected during next three day. Total rainfall will be mm .

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

Wind flow mainly from N , E, SE direction with 12.3 – 19.3 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 41-52% and minimum relative humidity is expected to be around 29% - 38%.

Maximum temperature is expected to be around 27 °C - 32 °C and minimum temperature is expected to be around 15°C.

HOWRAH

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	25--27	11-16	80-90
Wednesday	0.0			
Thursday	0.0			

HOWRAH

No rainfall is expected on 15th, 16th and medium rainfall is expected during next three day. Total rainfall will be mm .

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

Wind flow mainly from N & S direction with 13.3 – 20.3 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 32-88% and minimum relative humidity is expected to be around 24% - 76%.

Maximum temperature is expected to be around 20°C - 25 °C and minimum temperature is expected to be around 13°C -19°C

NORTH 24 PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-27	15-18	60-75
Wednesday	0.0			
Thursday	0.0			

NORTH 24 PGS

No rainfall is expected on 15th, 16th Dec. and medium rainfall is expected during next three days. Total rainfall will be 32 mm.

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

Wind flow mainly from N & E direction with 14.3- 20 km/hr. speed during next 5 days is expected.

Maximum relative humidity is expected to be around 37-87% and minimum relative humidity is expected to be around 28% - 74%.

Maximum temperature is expected to be around 23 °C - 28 °C and minimum temperature is expected to be around 15°C -20°C

Vindhyan Alluvial Zone**DAKSHIN DINAJPUR**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	9-9	55-85
Wednesday	0.0			
Thursday	0.0			

DAKSHIN DINAJPUR

- Possibility of clear sky on 15th December, partly cloudy on 16th December, overcast on 17th & 18th December and mainly cloudy sky on 19th December.
- There seems to be possibility of no rainfall on 15th to 17th December and light rain on 18th & 19th December.
- Wind from North-westerly, North-easterly & South-westerly direction with an average speed of 8.1-11.0 Km/hr. is expected.
- Maximum temperature is expected to be around 22.0-28.0°C and minimum temperature is expected to be 13.0-16.0°C.
- Maximum and minimum relative humidity is expected to be 42-88% and 24-82%, respectively

MALDA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	15-16	65-80
Wednesday	0.0			
Thursday	0.0			

MALDA

- Possibility of clear sky on 15th December, partly cloudy on 16th December, overcast on 17th & 18th December and mainly cloudy sky on 19th December.
- There seems to be possibility of no rainfall on 15th to 17th December and light rain on 18th & 19th December.
- Wind from North-westerly & Northerly direction with an average speed of 8.2-11.7 Km/hr. is expected.
- Maximum temperature is expected to be around 20.0-28.0°C and minimum temperature is expected to be 12.0-16.0°C.
- Maximum and minimum relative humidity is expected to be 36-88% and 23-83%, respectively.

Coastal Saline Zone

PURBA MIDNAPUR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	15-19	65-75
Wednesday	0.0			
Thursday	0.0			

PURBA MIDNAPUR

- Light rainfall is predicted on 16th December but no rainfall is predicted in the remaining days.
- Sky will be mainly cloudy in the next five days.
- Wind speed will be 14-17.9 km/sec. and the predominant wind direction will be Northerly to South westerly/.
- Maximum temperature is expected to be around 24.0^oC -29.0^oC and minimum temperature is likely to be around 14.0^oC-18.0^oC.
- Maximum and minimum relative humidity will be in the range of 42% -80% and 32% -44%.
-

SOUTH 24-PGS

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-29	15-18	60-80
Wednesday	0.0			
Thursday	0.0			

SOUTH 24-PGS

- Light rainfall is predicted on 18th and 19th December but no rainfall is predicted in the remaining days.
- Sky will be partly cloudy in the next five days.
- Wind speed will be 11.0-19.1 km/sec. and the predominant wind direction will be Northerly to South westerly/.
- Maximum temperature is expected to be around 24.0^oC -29.0^oC and minimum temperature is likely to be around 17.0^oC-20.0^oC.
- Maximum and minimum relative humidity will be in the range of 41% -83% and 32% -50%.

Undulating Red and Laterite Zone**PASCHIM MIDNAPORE**

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-28	14-18	55-80
Wednesday	0.0			
Thursday	0.0			

PASCHIM MIDNAPORE

- No rainfall for the coming five days and partially clear sky will be present for the same.**
- **Predominant wind direction will be Northwesterly. Wind with a speed of 11.3-18.4 km per hour will blow for coming five days.**
 - **Relative humidity maximum will be 34-91 % and minimum will be 23-81%**
 - **Maximum temperature will be 23-24°C and minimum will be 13-17°C.**
 -

BANKURA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	26-28	13-17	65-80
Wednesday	0.0			
Thursday	0.1			

BANKURA

- No rainfall for the coming five days and completely partially clear sky will be present for the same.**
- **Predominant wind direction will be Northwesterly. Wind with a speed of 10.5-16.5 km per hour will blow for coming five days.**
 - **Relative humidity maximum will be 31-93% and minimum will be 20-87%**
 - **Maximum temperature will be 22-29°C and minimum will be 13-18°C.**
 -

PURULIA

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	27-27	11-15	40-90
Wednesday	0.0			
Thursday	0.0			

PURULIA

No rainfall for the coming five days and partially clear sky will be present for the same.

- Predominant wind direction will be Northwesterly. Wind with a speed of 8.9-14.7 km per hour will blow for coming five days.
- Relative humidity maximum will be 34-93 % and minimum will be 22-89 %
- Maximum temperature will be 20-27°C and minimum will be 11-15°C.

BIRBHUM

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	0.0	28-28	12-13	65-85
Wednesday	0.0			
Thursday	0.0			

BIRBHUM

No rainfall for the coming five days and partially clear sky will be present for the same.

- Predominant wind direction will be Northwesterly. Wind with a speed of 8.5-14.8 km per hour will blow for coming five days.
- Relative humidity maximum will be 32-92% and minimum will be 19-85%
- Maximum temperature will be 23-29°C and minimum will be 12-16°C.

Andaman & Nicobar Islands

ANDAMAN

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	8.2	28-31	21-25	80-95
Wednesday	8.2			
Thursday	5.0			

NORTH MIDDLE ANDAMAN

. Partly cloudy weather with moderate rainfall is likely to occur during next five days. In North and Middle Andaman 62 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 25.0 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 76 to 80 % and 72 to 74 % respectively in North and Middle Andaman. Wind speed of 17.5 to 29.4 km/h is expected from North Easterly direction.

SOUTH ANDAMAN.

- Partly cloudy weather with moderate rainfall is likely to occur during next five days. In South Andaman 98.0 mm of rainfall is expected during this period. The maximum temperature in South Andaman will be 30.0 to 31 °C with minimum temperature of 24 to 25 °C, whereas the maximum and minimum relative humidity is expected to be in the range of 77 to 80 %, and 74 to 75 % respectively in South Andaman. Wind speed of 18.6 to 35.1 km/h is expected from North Easterly direction.

NICOBAR

Days	Rainfall (mm)	Maxi Temp (°C)	Mini Temp (°C)	Relative Humidity (%)
Tuesday	8.0	30-33	24-24	75-90
Wednesday	--			
Thursday	---			

NICOBAR

- Cloudy weather with moderate rainfall is likely to occur during next five days. In Nicobar Islands 104.0 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 84 %, and 74 to 79 %, respectively in Nicobar Islands. Wind speed of 17.0 to 28.7 km/h is expected from South 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 and drainage channel should be maintained.
Large cardamom	Vegetative Stage	-	Use leaf mold at base of clump for moisture conservation as no rainfall has been forecasted for coming five days.
Mandarin Orange	Vegetative and Harvesting stage	-	Harvesting of fruits should be continued, as per the elevation. Remove and destroy the fallen fruits to prevent population of fruit fly.
Ginger	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Turmeric	Pre-harvesting Stage	-	Careful roguing and destruction of infected plants should be done. Healthy plots should be marked for seed rhizome for next season.
Rice	Dough Stage	-	No irrigation is recommended for this stage and drainage channel should be maintained
Cole Crop (Cauliflower,	Vegetative stage	-	Weeding should be done and drainage channel should be maintained.

Cabbage, etc)			
Potato	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.
Garden Pea	Vegetative stage		Weeding should be done and drainage channel should be maintained.
Animal Husbandry (Cattle)	-	-	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.
General	-	-	In coming five days no rainfall has been forecasted so, irrigate the crops as per the requirement and drainage channel should be maintained.

Terai-Teesta Alluvial Zone

Advisory

General Clear sky on 15 December, Mainly Clear Sky on 16 December, Over cast 17-18 December and Mainly Cloudy Sky 19 December. .

Agriculture and Horticulture

Main Crops	Stage	Pest & Diseases	Advisory
Potato	Sowing		Treat the seeds before sowing in the solution of (Carbendazim 1g + Mencozeb 2g) per lit. of water by dipping for at least 30 minutes. Spray Mencozeb 75 wp @2.5g/lit of water as Preventive Measure. Apply Chlorpyriphos at the time of Sowing in cut Worm prne areas.
Lentil	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.
Ginger, Turmeric		Rhizome rot	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.
Legume vegetable	Reproductive	Aphid, white fly	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.
Crucifers	Sowing of seedling		Treat the seeds with captan 50WP@3g/kg of seed before sowing. If rotting is observed on seedlings, then apply Cupperoxy. Chloride @ 3g/lit. of water.
Cucurbits	Fruiting	Fruit Fly Fruit & Vine rot White fly, Downy mildew	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.
Brinjal	Vegetative Fruiting	fruit and shoot borer Nematode White fly, Jassid	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 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.
Chilli	vegetative	Aphid, white fly, Thrips Yellow mite,	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/lit. of water.

ANIMAL HUSBANDRY & FISHERY

Name of Animal	Disease	Control measures
Cattle and Buffalo	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 chicks 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
Mustard	Vegetative stage	Plant spacing should be maintained at 12-15 cm by thinning. Intercultural operations like light spading and weeding. If required, light irrigation should be given.
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.
Cabbage, Cauliflower, Broccoli, Tomato, Chilli, French Bean, Pointed Gourd, Cucumber	Vegetative	Intercultural operations like light spading and weeding should be done followed by 1 st top dressing of nitrogenous fertilizer and earthing up for cabbage, cauliflower, broccoli, tomato, chilli. After fertilizer application, light irrigation should be given. No need to apply nitrogenous fertilizer in case of french bean at this stage but other operations should be followed. 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.
Potato	Sprouting/Vegetative stage	If planting is done end of November to first week of December, depending on the soil moisture, apply splash irrigation at 3-4 days interval up to 2-3 days before 1 st earthing up. If planting is done before 15 th of November, light spading followed by hand weeding at this stage is necessary. First top dressing with 1/4 th amount of total nitrogen (200 kg N) + 1/4 th amount of total potash (150 kg) followed by earthing up should be done. Apply chloropyriphos @ 2.5 ml/lt of water against the attack of cut worm and leaf eating insect.
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	Arrange electric bulb whole day in the cages of new born chicks. For avoiding moist condition of litter apply lime and old news paper in the litter.

Coastal Saline Zone

Crop	Stage	Disease	Advisory
Boro paddy	--Start Sowing of boro paddy --Maintain a thin layer of water over the seed bed --Seed must be treated before sowing		
Potato	--If moisture level of soil remain proper then first apply TrichodermaViridi mix with compost @50kg compost+1kg trichodermaviridi basal fertilizers urea@4kg/bigha, SSP@14kg/bigha and MOP@4kg/bigha --Before planting seed should be treated by Methoxy Mercuric Chloride@100g/quintal seed by soaking of 2 minutes --Planting of tuber should be done at a row spacing of 45-60cm and at a plant spacing of 15-25cm and at a depth of 5-7cm.		
Lentil	--Select some variety for sowing like Asha, Ranjan, Subrata, Suvendu etc. --Before sowing apply basal fertilizer viz. urea@43kg/bigha, SSP@250kg/bigha and MOP@66kg/bigha --Complete sowing immidiately		
Early sown mustard	Flowering start	Blight due to cloudy weather at lower lesf	--Apply Diethane-M-45 @2.5g per liter of water
Betelvine	--Keep the fencing tight --Cover the whole fencing by cotton cloths like sari for preventing strong Northern wind		
Fishery	--Apply less amount of floating food --Clean the surrounding for direct sunlight --Stirring the fishes with net must be done per week Apply 8-10 kg lime mixed with water per bigha pond area		

Vindhyan Alluvial Zone

Crop	Stage	Variety	Advisory
Paddy	Harvesting		There seems to be possibility of no rainfall on 15 th to 17 th December and light rain on 18 th & 19 th December. Harvesting paddy should be taken home during this weather condition.
Lentil	Growth stage	--	Spray 2% DAP solution (20g/lit) at 25 DAS. Also spray Borax @ 2g/liter water. Spraying should be done well with sufficient water. At least 75 liter (5 tank) water per bigha.
Cucumber		Downey Mildew	To control Downey mildew of cucurbits spray Metaloxy + Mancozeb @ 2.5 g/lit. 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.
Vegetables Crops	Early Stage	Insects	To management of early stage vegetables crops from insect pest attacks apply Chlorantanilprole 0.4%GR @ 10gram sqm for soil application on the seed beed.
Betel vine			To protect the Boroz from cold weather covered the Boroz with paddy straw.
Cattle	--	--	To protect animals from sudden drop in temperature, keep the animals in a covered shed/area during the night.

Fishery	Fish Feed	--	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
Wheat		Weeds	Farmers are advised to remove the weeds by hand weeding before crown root initiation stage of the crop. When the crop at 20-25 days after sowing, apply 17.4 kg Urea per bigha followed by light irrigation.
Potato		Weeds	Give light irrigation to maintain the optimum moisture in the soil. If weeds are noticed in the field, follow hand weeding. Cold weather favours the aphid pest multiplication
Mustered	Flowering stage	weeds	Crop coverage is good and soil is moderately dry in condition for the district. No rainfall will occur and clear sky will be present for coming four days. Farmers are advised to maintain the optimum moisture content in the soil by giving light irrigation.
Cabbage/Cauliflower			Spray Need Seed Kernel Extract solution @30ml/lit of water at clear weather condition
General	Crop coverage is good and soil is moderately dry in condition for the district. No rainfall will occur and clear sky will be present for coming four days. Farmers are advised to maintain the optimum moisture content in the soil by giving light irrigation.		

Andaman & Nicobar Islands

For North and Middle Andaman

Crop/Livestock	Stage	Weather based agro advisories
Rice	Harvesting	<ul style="list-style-type: none"> Harvest long duration paddy (C14-8) to avoid losses due to lodging.
Vegetable	Nursery	<ul style="list-style-type: none"> Drain out water from vegetable nursery to avoid damping off / rotting of seedlings.
Fish	Growing	<ul style="list-style-type: none"> Clean the fresh water fish pond to remove invasive species during rainy season through netting, for protecting the stocked fish.
Cattle, buffalo and goat	All	<ul style="list-style-type: none"> Deworm cattle, buffalo and goat after consulting with local veterinary doctors.

For South Andaman

Crop/Livestock	Stage	Weather based agro advisories
Rice	Harvesting	<ul style="list-style-type: none"> Harvest long duration paddy (C14-8) to avoid losses due to lodging.
Vegetable	Nursery	<ul style="list-style-type: none"> Drain out water from vegetable nursery to avoid damping off / rotting of seedlings.
Fish	Growing	<ul style="list-style-type: none"> Clean the fresh water fish pond to remove invasive species during rainy season through netting, for protecting the stocked fish.

For Nicobar

Crop/Livestock	Stage	Weather based agro advisories
Vegetable	Seed Treatment	<ul style="list-style-type: none">• Raise vegetable nursery separately and treat the seed of brinjal, tomato and chilli with trichoderma/Pseudomonas @ 2 gm/kg of seed.
Pig and goat	All	<ul style="list-style-type: none">• Deworm pig and goat after consulting with local veterinary doctors.

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