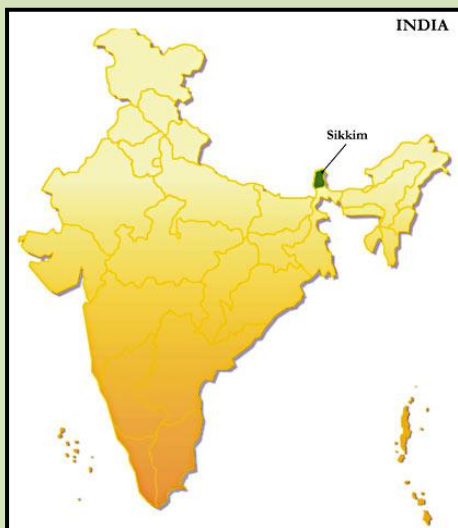




STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 21ST MARCH TO 23RD MARCH'2017



IMD, GANGTOK IN COLLABORATION WITH ICAR, GANGTOK, FSAD AND HCCD, GANGTOK



ISSUED ON TUESDAY 21ST MARCH'2017

Meteorological Sub-division of Sikkim

As per India Meteorological Department's classification, Sikkim is a part of Met Sub-Division of Sub Himalayan West Bengal & Sikkim (SHWB & SKM) and is divided into four (4) Districts:

- 1) North District with HQ at Mangan
- 2) East District with HQ at Gangtok
- 3) West District with HQ at Gyalshing
- 4) South District with HQ at Namchi

Mangan (PTO)				North Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
17-3-2017	028	12.1	08.3	Rainfall	No rain	No rain	No rain	Light	Light
18-3-2017	029	13.2	07.4	Wind (Speed/ Dir)	2Km/Hr (S)	3Km/Hr (SW)	3Km/Hr (WSW)	2Km/Hr (NNW)	2Km/Hr (W)
19-3-2017	004	15.1	07.5	Temperature (Min-Max)	10 - 17°C	9 - 18°C	10 - 17°C	9 - 15°C	8 - 15°C
20-3-2017	019	17.3	10.1	RH (Min-Max)	70 - 90%	68 - 88%	67 - 90%	68 - 93%	67 - 90%

Gangtok				East Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
17-3-2017	005	08.5	08.0	Rainfall	No rain	No rain	No rain	Light	Very Light
18-3-2017	034	16.1	06.0	Wind (Speed/ Dir)	3Km/Hr (SW)	2Km/Hr (ESE)	3Km/Hr (WNW)	2Km/Hr (WNW)	2Km/Hr (SSW)
19-3-2017	000	14.4	05.7	Temperature (Min-Max)	6 - 14°C	6 - 15°C	7 - 15°C	7 - 14°C	6 - 13°C
20-3-2017	004	13.1	07.3	RH (Min-Max)	68 - 90%	70 - 89%	70 - 88%	69 - 94%	68 - 92%

Namthang				South Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Generally Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
17-3-2017	000	20.5	08.0	Rainfall	No rain	No rain	No rain	Light	No rain
18-3-2017	015	19.5	07.5	Wind (Speed/ Dir)	3Km/Hr (SSW)	2Km/Hr (SE)	2Km/Hr (W)	3Km/Hr (NW)	3Km/Hr (SW)
19-3-2017	000	15.0	07.0	Temperature (Min-Max)	9 - 18°C	10 - 19°C	9 - 19°C	9 - 18°C	8 - 17°C
20-3-2017	000	N/A	08.0	RH (Min-Max)	71 - 91%	70 - 88%	73 - 90%	75 - 92%	70 - 91%

Gyalshing (AWS)				West Sikkim Forecast					
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
				Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Partly Cloudy
17-3-2017	N/A	N/A	N/A	Rainfall	No rain	No rain	No rain	Light	No rain
18-3-2017	N/A	N/A	N/A	Wind (Speed/ Dir)	3Km/Hr (S)	2Km/Hr (SSE)	2Km/Hr (W)	3Km/Hr (NNW)	2Km/Hr (SSW)
19-3-2017	N/A	N/A	N/A	Temperature (Min-Max)	7 - 15°C	7 - 16°C	8 - 15°C	8 - 14°C	7 - 14°C
20-3-2017	N/A	N/A	N/A	RH (Min-Max)	68 - 88%	66 - 85%	67 - 87%	69 - 92%	68 - 89%


Part II

AGRO-METEOREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ☼ Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- ☼ *Jalkund* should be covered with thatch to prevent evaporation losses.
- ☼ Vermicompost pits should be covered with gunny bags / paddy straw/ dry forest litter to regulate the temperature.
- ☼ Avoid feeding of damp and foul smelling feed to all livestock and poultry.
- ☼ De-worming with Fenbendazole @ 10 mg / kg body weight.
- ☼ Protect animals from cold by providing protective cover/ house and light.

Name of the crop/Animal	Stage	Pest/ Disease	Agro-Met Advisories
Crops			
Maize	Land preparation		<ul style="list-style-type: none">◆ Apply well decomposed FYM @ 2.5 t/ha + mixed compost 2.5 t/ha + 0.5 t/ha neem cake and mix properly with soil 7-10 days before sowing◆ Apply dolomite @ 200 kg/ha in furrow before sowing◆ Take protection measure to save maize seedlings from birds.
Buckwheat	Harvesting		<ul style="list-style-type: none">◆ Harvesting should be done at physiological maturity stage.
Mustard/ Toria	Harvesting		<ul style="list-style-type: none">◆ Harvesting should be done at physiological maturity stage.
Tomato	Nursery raising		<ul style="list-style-type: none">◆ Prepare 4 inch raised bed of 1 m x 5 m size for nursery raising.◆ Bed should be prepared to a fine tilth by mixing well decomposed FYM @ 2 kg/m² and vermicompost @ 500 g/m² incubated with 2% <i>Trichoderma viride</i> for management of soil borne diseases.◆ Seed should be sown in line 4-5 cm apart at shallow depth 1-2 cm.◆ Light irrigation should be provided immediately after seed sowing with rose can.◆ Proper moisture should be maintained in nursery beds for better germination.

Large cardamom	Post harvest crop management		<ul style="list-style-type: none"> ◆ Regular watering should be done at 15 – 30 days intervals. ◆ Regular monitoring for pest and disease incidence. ◆ Shade management with the proper lopping of trees.
Ginger	Sowing		<ul style="list-style-type: none"> ◆ Identify healthy plants for seed rhizomes. ◆ Selected rhizomes for planting material should be kept in partial shade for better sprouting. ◆ Forest litter should be collected well in advance as mulching material. ◆ Apply well decomposed FYM @ 20-25 t/ha + 1.0 t/ha neem cake and mix properly with soil 7-10 days before sowing. ◆ Broadcast dolomite @ 2 t/ha before sowing and mix properly with soil.
Sikkim Mandarin	Flowering/ Fruit set		<ul style="list-style-type: none"> ◆ Basin maintenance and manuring with FYM @ 30-35 kg/tree should be done. Avoid application of FYM close to the trunk. ◆ Tree trunk should be painted with Bordeaux mixture @ 1%.
Kiwi fruit	Pruning /Training		<ul style="list-style-type: none"> ◆ Basin maintenance and manuring with FYM @ 30-35 kg/tree should be done. Avoid application of FYM close to the trunk. ◆ Regular watering should be done till sprouting
Animal Sciences			
Tibetan Sheep			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended.
Yak			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with mineral mixture and salt. ◆ Hay feeding is recommended.
Cattle, Sheep and Goat			<ul style="list-style-type: none"> ◆ Farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the dairy cattle after 12 hr of observation of heat. ◆ Breeding of the sheep/goat should be done after 24-30 hr of observation of heat.

			<ul style="list-style-type: none"> ◆ Feeding of concentrate feed along with jaggery, mineral mixture and salt. ◆ Periodic application of fly repellents and/or netting of dung pit are recommended.
Cattle			<ul style="list-style-type: none"> ◆ Balanced feeding of dairy animals and allow calf suckling immediately after parturition. ◆ Full hand milking should be practiced. ◆ Frequent incomplete milking at interval of 4hrs should be practiced after parturition for minimum 1 week. Afterwards complete milking in a day is recommended.
Poultry		Coccidiosis, Ranikhet disease	<ul style="list-style-type: none"> ◆ 16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production. ◆ Frequent raking and liming of deep litter materials. ◆ Inclusion of turmeric powder @ 10g/kg feed for prevention of coccidiosis. ◆ Maintenance of brooder temperature for chicks with the help of electrical bulbs for initial one month. ◆ Ranikhet vaccination at 5th day and at 30th day of age. ◆ Calcium/shell grit and multi vitamin supplementation is strongly recommended to optimize egg production. ◆ Spraying of ectoparasiticides viz., deltamethrin/cypermethrin @ 1% v/v in water.
Pig	All stages	Swine fever	<ul style="list-style-type: none"> ◆ Keep floor dry to avoid skin diseases. ◆ Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigenous pigs. ◆ Swine fever vaccine at the age of 8-10 week is recommended. ◆ Critical heat detection in early morning and late evening is recommended. ◆ Feed 5-10% green fodder of their diet.