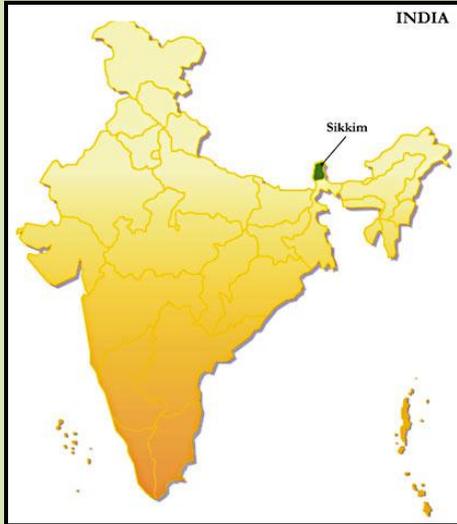




# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 29<sup>TH</sup> JANUARY to 01<sup>ST</sup> FEBRUARY'2016



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



**ISSUED ON FRIDAY 29<sup>TH</sup> JANUARY'2016**

## **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 Gyalsing
- 4) South District with HQ at Namchi

Mangan (PTO)				North Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	No rain	Light	No rain
26/1/2016	000	18.2	08.2	Wind (Km/Hr) (Speed/ Dir)	3(NW)	3(W)	2(W)	2(W)	3(W)
27/1/2016	011	11.2	09.5	Temperature (Min-Max)	8 - 18°C	8 - 18°C	8 - 17°C	8 - 15°C	7 - 17°C
28/1/2016	000	18.2	06.1	RH (Min- Max)	48 - 78%	48 - 75%	52 - 80%	58 - 85%	60 - 82%

Gangtok				East Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	No rain	Very Light	No rain
26/1/2016	000	12.1	03.3	Wind (Km/Hr) (Speed/ Dir)	2(NW)	2(NW)	3(NW)	3(NW)	2(NW)
27/1/2016	003	06.3	04.0	Temperature (Min-Max)	4 - 12°C	4 - 12°C	5 - 11°C	5 - 10°C	4 - 11°C
28/1/2016	000	08.5	03.4	RH (Min- Max)	56 - 80%	55 - 83%	52 - 85%	58 - 90%	55 - 88%

Namthang				South Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	No rain	No rain	No rain
26/1/2016	000	15.0	07.5	Wind (Km/Hr) (Speed/ Dir)	3(NW)	3(WNW)	2(WNW)	2(WNW)	3(WNW)
27/1/2016	000	10.0	06.5	Temperature (Min-Max)	5 - 15°C	6 - 16°C	6 - 16°C	7 - 14°C	6 - 15°C
28/1/2016	000	15.0	06.5	RH (Min- Max)	48 - 78%	48 - 76%	46 - 80%	52 - 84%	55 - 82%

Gyalshing (AWS)				West Sikkim Forecast					
				Day → Parameter ↓	Day 1	Day 2	Day 3	Day 4	Day 5
Date	Rainfall (mm)	Max. Temp (°C)	Min. Temp (°C)	Sky Condition	Partly Cloudy	Partly Cloudy	Generally Cloudy	Generally Cloudy	Generally Cloudy
				Rainfall	No rain	No rain	No rain	Very Light	No rain
26/1/2016	001	13.7	05.1	Wind (Km/Hr) (Speed/ Dir)	2(W)	2(WNW)	3(WNW)	3(W)	2(WNW)
27/1/2016	N/A	06.8	04.9	Temperature (Min-Max)	4 - 14°C	4 - 14°C	5 - 13°C	5 - 11°C	5 - 12°C
28/1/2016	002	10.7	04.4	RH (Min- Max)	54 - 74%	52 - 78%	50 - 81%	58 - 85%	55 - 82%

## Part II

### AGRO-METEOROLOGICAL ADVISORIES

#### General Advisories for all the crops/ livestock

- ❖ Spraying of plant protection biopesticides on bright sunny day for insect and disease management is recommended.
- ❖ Mulching should be done through locally available biomass to conserve soil moisture for *rabi* crops.
- ❖ *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
<b>Crops</b>			
Buckwheat	Flowering		<ul style="list-style-type: none"> <li>❖ Thinning (removal of extra plants) and weeding should be done 10-15 days after sowing.</li> </ul>
Mustard/ Torina	Flowering	Aphid	<ul style="list-style-type: none"> <li>❖ One irrigation should be provided at the time of pre-flowering.</li> <li>❖ For management of aphid, spray petroleum agro spray @ 10 ml/l or neem oil (1500ppm) @ 4ml/l.</li> </ul>
Vegetable pea/ Field pea	Flowering/Fruiting/Picking		<ul style="list-style-type: none"> <li>❖ Soil moisture should be maintained for good growth and yield.</li> <li>❖ If sources are available one irrigation is recommended.</li> <li>❖ Cautious picking should be done to avoid plant damage.</li> </ul>
Tomato	Flowering/ Fruiting	Late Blight 	<ul style="list-style-type: none"> <li>❖ Removal of infected leaves/ plant and drenching/ spray with copper oxychloride @ 0.25 % or Bordeaux mixture @ 1%.</li> <li>❖ Harvesting of mature green tomato should be done for distant market and pinkish/ reddish for local market.</li> </ul>

Winter vegetables (Cole crops)	Vegetative		<ul style="list-style-type: none"> <li>◆ Regular watering and weeding in main field is recommended.</li> <li>◆ Earthing up should be done.</li> <li>◆ Regular monitoring for pest and disease incidence and collection and destruction of egg, larva, pupa and adult.</li> </ul>
Large cardamom	Post harvest crop management		<ul style="list-style-type: none"> <li>◆ Regular watering should be done at 15 – 30 days intervals.</li> <li>◆ Regular monitoring for pest and disease incidence.</li> <li>◆ Shade management with the proper lopping of trees.</li> </ul>
Ginger	Harvesting Seed		<ul style="list-style-type: none"> <li>◆ Identify healthy plants for seed rhizomes.</li> <li>◆ Care should be taken during harvesting to avoid the mechanical injury in the rhizome.</li> </ul>
Sikkim Mandarin	Harvesting/Storage		<ul style="list-style-type: none"> <li>◆ Collection of infested dropped fruit and buried in to soil.</li> <li>◆ Harvesting should be done along with twig with two leaves.</li> <li>◆ Diseased and senile branches should be removed.</li> <li>◆ On tree storage should be done for prolonged harvesting of fruits.</li> <li>◆ Manuring with FYM @ 10-15 kg/plant should be done.</li> </ul>
Kiwi fruit	Dormant		<ul style="list-style-type: none"> <li>◆ Pruning of unwanted vegetative growth should be done.</li> <li>◆ Manuring with FYM @ 10-15 kg/plant should be done.</li> </ul>
<b>Animal Sciences</b>			
Tibetan Sheep			<ul style="list-style-type: none"> <li>◆ Feeding of concentrate feed along with mineral mixture and salt.</li> <li>◆ Hay feeding is recommended.</li> </ul>
Yak			<ul style="list-style-type: none"> <li>◆ Feeding of concentrate feed along with mineral mixture and salt.</li> <li>◆ Hay feeding is recommended.</li> </ul>
Cattle, Sheep and Goat			<ul style="list-style-type: none"> <li>◆ Farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the animal after 12 hr of 1<sup>st</sup> heat observe.</li> <li>◆ Feeding of concentrate feed along with jaggery, mineral mixture and</li> </ul>

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