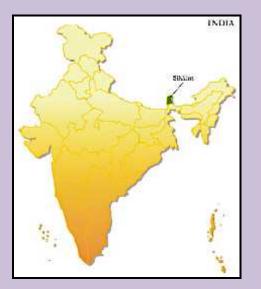


# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 6<sup>th</sup> APRIL TO 10<sup>th</sup> APRIL'2019



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





# ISSUED ON TUESDAY 5th APRIL'2019

# **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

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### **Value Added forecast for NORTH-DISTRICT for next five days**

Parameter/Date	6/04/2019	7/04/2019	8/04/2019	9/04/2019	10/04/2019
Rainfall (mm)	Light rain	Moderate rain	Moderate rain	Light rain	Light rain
Max Temp ( <sup>0</sup> C)	26	24	22	23	23
Min Temp ( <sup>0</sup> C)	14	12	11	11	12
Sky condition	Generally cloudy				
Max RH (%)	91	93	93	90	91
Min RH (%)	74	79	83	72	76
Wind Speed (KmpH)	4	4	3	3	4
Wind Direction (deg)	SE	NE	SW	SE	SW

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

	Weather for preceding week				
Date	Rainfall	Max. Temp	Min. Temp		
	( <b>mm</b> )	(°C)	(°C)		
2/4/2019	039	27.0	08.0		
3/4/2019	000	26.0	09.0		
4/4/2019	000	23.0	09.0		

## Weather forecast valid up to 10<sup>th</sup> April 2019

- >> Probability of light rainfall to moderate rainfall
- Max temp may be vary from 22-26°C, whereas, Min temp may vary from 11-14°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 90-93%, whereas, Min RH may var from 74-83%
- > Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from south easterly to south westerly y following northeasterly, south westerly and south easterly
- > Weekly cumulative rainfall= 50 mm

### **Value Added forecast for EAST-DISTRICT for next five days**

Parameter/Date	6/04/2019	7/04/2019	8/04/2019	9/04/2019	10/04/2019
Rainfall (mm)	Light rain	Light rain	Light rain	Very light rainfall	Light rain
Max Temp ( <sup>0</sup> C)	20	19	18	19	19
Min Temp ( <sup>0</sup> C)	13	12	11	11	11
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	92	92	90	90
Min RH (%)	75	80	82	70	78
Wind Speed (KmpH)	3	4	3	2	3
Wind Direction (deg)	NE	S	NE	NE	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

	Weather for preceding week				
DateRainfallMax. TempMin. Temp					
	( <b>mm</b> )	(°C)	(°C)		
2/4/2019	000	19.5	10.1		
3/4/2019	020	18.4	09.7		
4/4/2019	000	16.3	10.5		

## Weather forecast valid up to 10<sup>th</sup> April march 2019

- >> Probability of light rainfall
- Max temp may be vary from 18-20°C, whereas, Min temp may vary from 11-13°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 90-92%, whereas, Min RH may var from 70-82%
- >> Wind speed may likely vary from 2-4 km/hr.
- > Wind direction may blow from North easterly to southerly than north easterly and finally to easterly
- > Weekly cumulative rainfall= 32 mm

### **Value Added forecast for SOUTH-DISTRICT for next five days**

Parameter/Date	6/04/2019	7/04/2019	8/04/2019	9/04/2019	10/04/2019
Rainfall (mm)	Very light rainfall	Light rain	Light rain	Very light rainfall	Light rain
Max Temp ( <sup>0</sup> C)	27	26	24	25	24
Min Temp ( <sup>0</sup> C)	15	14	13	13	14
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	88	90	90	84	89
Min RH (%)	70	72	74	68	70
Wind Speed (KmpH)	3	4	3	3	2
Wind Direction (deg)	Ν	S	NE	NE	E

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

	Weather for preceding week					
Date	DateRainfallMax. TempMin. Temp					
	( <b>mm</b> )	(°C)	(°C)			
2/4/2019	000	23.5	11.5			
3/4/2019	001	24.0	12.0			
4/4/2019	000	28.0	15.0			

# Weather forecast valid up to 10<sup>th</sup> April 2019

- >> Probability of light rainfall
- >> Max temp may be vary from 24-27°C, whereas, Min temp may vary from 13-15°C
- >> Sky will remain mainly generally cloudy
- Max RH is likely to be 84-90 %, whereas, Min RH may var from 68-72%
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from North to southerly then again north easterly to easterly
- > Weekly cumulative rainfall= 18 mm

### **Value Added forecast for WEST-DISTRICT for next five days**

Parameter/Date	6/04/2019	7/04/2019	8/04/2019	9/04/2019	10/04/2019
Rainfall (mm)	Very light rainfall	Light rainfall	Very light rainfall	Light rainfall	Light rainfall
Max Temp ( <sup>0</sup> C)	22	21	19	20	21
Min Temp ( <sup>0</sup> C)	13	12	11	11	12
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	89	92	91	88	90
Min RH (%)	83	83	80	80	83
Wind Speed (KmpH)	4	4	4	3	3
Wind Direction (deg)	N	S	NW	N	NW

Northerly- N, North-Easterly- N-E, Easterly- E, South-Easterly- S-E, Southerly- S, South-Westerly- S-W, Westerly-W, North-westerly- N-W.

	Weather for preceding week				
DateRainfallMax. TempMin. Temp					
	( <b>mm</b> )	(°C)	(°C)		
2/4/2019	000	19.6	10.2		
3/4/2019	N/A	19.9	09.8		
4/4/2019	N/A	15.1	12.7		

# Weather forecast valid up to 10<sup>th</sup> April 2019

- >> Probability of light rainfall
- >> Max temp may be vary from 19-22°C, whereas, Min temp may vary from 11-13°C
- >> Sky will remain generally cloudy
- Max RH is likely to be 88-92%, whereas, Min RH may var from 80-83%
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from northerly to southerly, then north westerly to northerly and finally north westerly
- > Weekly cumulative rainfall= 20 mm

#### AGRO-METEREOLOGICAL ADVISORIES

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

- Harvest the matured crops to avoid damage from hailstorm
- Apply dolomite/agricultural lime at least 10 days prior to sowing the Kharif crops
- *Jalkund* should be dug out for rain water harvesting.
- Spraying of plant protection bio pesticides on bright sunny day for insect and disease management is recommended.
- Maintain strict hygiene and sanitation measures in poultry farm.
- Livestock should provide a strategic supplementation of vitamins and mineral mixture to improve the productive performance.
- Use preserved fodder like hay and silage to feed your livestock.

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
crop/Annia	Agricu	Itural and Horticultu	ural crops:
Maiza			-
Maize	Land preparation		Maize sowing should be done at 5-6
··	and sowing		cm depth with a spacing of $60 \text{ cm} \times 20 \text{ cm}$ (row × rlopt)
			20 cm (row × plant )
			<ul> <li>Provide adequate drainage facilities</li> <li>Apply dolomite @ 0.5 t/ha in furrows</li> </ul>
			Apply well decomposed FYM @ 2.5
			t/ha + mixed composed 171W @ 2.5
			t/ha neem cake and mix properly with
			soil 7-10 days before sowing
Buckwheat	Harvesting		<ul> <li>Should done at physiological maturity</li> </ul>
Buckwheat	That vesting		Should done at physiological maturity
Mustard/Toria	Harvesting		Should done at physiological maturity
Ginger	Field preparation		Identify healthy plants for seed
			rhizomes.
			Selected rhizomes for planting
			material should be kept in partial
			shade for better sprouting.
			Store the seed rhizome in the pit for a
			month to break the dormancy
			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.
Large	Post-harvest crop		<ul> <li>Regular monitoring for pest and</li> </ul>
cardamom	management		disease incidence.
			Shade management with the proper
			lopping of trees.
Early kharif	Land preparation		Seed sowing of okra, beans etc. can
vegetables	and Sowing		be done
Pea	Pod maturity,		Soil moisture should be maintained
	harvesting		for good yield.
			The fully developed pod in
			early morning.
			For green pods of pea, pick/harvest at
			4-5 days interval so as to stimulate
			generation of new flowers.
			Cautious picking should be done to avoid plant damage
Tomato/Red	Transplanting	Fruit borer/ white fly/	<ul> <li>Nursery should prepare at 15 cm of</li> </ul>
cherry		late blight	height with 1 m width and length as
pepper/Brinjal			per farmers convenience.
			◆ 25-28 days old seedlings should be
			planted at $60 \text{ cm} \times 45 \text{ cm}$
			Bed should be prepared to a fine tilth
			by mixing well decomposed FYM @
			5 kg/m2 and vermicompost @ 150 g/m <sup>2</sup> incubated with 1% <i>Trichoderma</i>
			<i>viride</i> for management of soil borne
			diseases.
			Use biodegradable polyfilm for
			mulching
Sikkim	Vegetative flush		Basin maintenance and manuring
Mandarin			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%.
	Animal Sc	iences and livestock	
Tibetan Sheep			Feeding of concentrate feed along
i locuit bheep			with mineral mixture and salt.
			Hay feeding is recommended.
Yak			Feeding of concentrate feed along
			with mineral mixture and salt.
			Hay feeding is recommended.
			Trimming of hair is recommended.
			7

Sheep and Goat		۲	Farmers are advised to look for heat sign especially during early morning or late evening and ensure breeding of the dairy cattle 12 hr after observation of heat. Breeding of the sheep/goat should be done 24-30 hr after observation of heat. 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		۲	Balanced feeding of dairy animals and allow calf suckling immediately after parturition. Colostrum (first
			three days milk) feeding to new born calf for first three days of life should be ensured. 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	٩	16 hrs of light (natural and electrical) should be provided to adult birds for optimum egg production.
		٢	Frequent raking and liming of deep
		۲	litter materials. Inclusion of turmeric powder @ 10g/kg feed for prevention of
		۲	coccidiosis. Maintenance of brooder temperature for chicks with the help of electrical
		۲	bulbs for initial one month. Ranikhet vaccination at 5-7 days and
		۲	at 28-30 days of age. Calcium/shell grit and multi vitamin supplementation is strongly
		۲	recommended to optimize egg production. Spraying of ectoparasiticides <i>viz.</i> ,
			deltamethrin/cypermethrin @ 1% v/v

			in water.
Pig	All stages	Swine fever	<ul> <li>Keep floor dry to avoid skin diseases.</li> <li>Weaning is recommended at the age of 8 weeks for crossbreds and 10 weeks for indigenous pigs.</li> <li>Swine fever vaccine at the age of 3 months is recommended.</li> <li>Critical heat detection in early morning and late evening is recommended.</li> </ul>
			Feed 5-10% green fodder of their diet.

Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim		
Name	Designation	Department
Dr. R. K. Avasthe	Joint Director	Soil Science
Dr. Raghavendra Singh	Senior scientist and Head(I/C)	Agronomy
Dr. P. K. Pathak	SMS	Animal science
Dr. J.K. Singh	SMS	Plant Breeding
Dr. Manoj Kumar	SMS	Agronomy
Sh. Boniface Lepcha	SMS	Horticulture
Sh. Santanu Das	SMS	Agril. Meteorology
Miss Tirtha Kumari Chettri	Metrological observer	Biochemistry