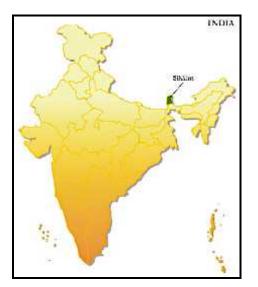


# STATE COMPOSITE AGRO-MET ADVISORY BULLETIN FOR THE STATE OF SIKKIM PERIOD: 23<sup>TH</sup> MARCH TO 27<sup>TH</sup> MARCH'2019



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





# ISSUED ON TUESDAY 22TH MARCH'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

Issued by: Santanu Das, SMS (Agril. Meteorology), ICAR-KVK, East Sikkim, Ranipool

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

Parameter/Date	23/03/2019	24/03/2019	25/03/2019	26/03/2019	27/03/2019
Rainfall (mm)	Very light	No rain	No rain	Very light	Light rainfall
Max Temp ( <sup>0</sup> C)	24	24	24	23	22
Min Temp ( <sup>0</sup> C)	12	12	12	12	13
Sky condition	Partially clear	Mainly clear	Mainly clear	Partially clear	Partially clear
Max RH (%)	82	82	84	87	87
Min RH (%)	72	72	73	75	75
Wind Speed (KmpH)	3	3	2	2	3
Wind Direction (deg)	SW	SW	S	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)	
19/3/2019	N/A	27.0	N/A	
20/3/2019	040	19.0	08.0	
21/3/2019	011	20.5	08.1	

- > Probability of very light rainfall
- >> Max temp may be vary from 22-24°C, whereas, Min temp may vary from 12-13°C
- >> Sky will remain partially clear
- Max RH is likely to be 82-87 %, whereas, Min RH may var from 52-65%
- Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from south westerly to southerly then south easterly
- > Weekly cumulative rainfall= 8 mm

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

Parameter/Date	23/03/2019	24/03/2019	25/03/2019	26/03/2019	27/03/2019
Rainfall (mm)	No rain	No rain	No rain	Very light	Light
Max Temp ( <sup>0</sup> C)	20	20	20	19	19
Min Temp ( <sup>0</sup> C)	11	11	11	10	10
Sky condition	Generally cloudy	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	80	80	82	86	86
Min RH (%)	70	70	73	75	75
Wind Speed (KmpH)	2	2	3	3	2
Wind Direction (deg)	NE	NE	NE	NE	Ν

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)		
19/3/2019	017	16.7	07.4		
20/3/2019	020	14.1	08.2		
21/3/2019	045	15.2	09.0		

- > Probability of very light rainfall
- >> Max temp may be vary from 19-20°C, whereas, Min temp may vary from 10-11°C
- > Sky will remain generally cloudy
- Max RH is likely to be 80-86%, whereas, Min RH may var from 70-75%
- Wind speed may likely vary from 2-3 km/hr.
- > Wind direction may blow from North easterly to northerly
- > Weekly cumulative rainfall= 5 mm

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

Parameter/Date	23/03/2019	24/03/2019	25/03/2019	26/03/2019	27/03/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ( <sup>0</sup> C)	23	23	23	23	22
Min Temp ( <sup>0</sup> C)	13	13	13	12	12
Sky condition	Partially clear	Partially clear	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	77	77	77	79	79
Min RH (%)	62	62	62	66	66
Wind Speed (KmpH)	4	4	3	3	4
Wind Direction (deg)	NE	NE	NE	NE	Ν

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)		
19/3/2019	N/A	N/A	N/A		
20/3/2019	N/A	N/A	N/A		
21/3/2019	N/A	N/A	N/A		

- >> There is no Probability of rain
- > Max temp may be vary from 22-23°C, whereas, Min temp may vary from 12-13°C
- > Sky will remain partially clear
- Max RH is likely to be 77-79 %, whereas, Min RH may var from 62-66%
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from North easterly to Northerly
- > Weekly cumulative rainfall= 0 mm

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

Parameter/Date	23/03/2019	24/03/2019	25/03/2019	26/03/2019	27/03/2019
Rainfall (mm)	No rain	No rain	No rain	Very light rain	No rain
Max Temp ( <sup>0</sup> C)	21	22	23	22	22
Min Temp ( <sup>0</sup> C)	11	11	12	12	10
Sky condition	Generally cloudy	Partially clear	Partially clear	Generally cloudy	Generally cloudy
Max RH (%)	80	80	80	88	84
Min RH (%)	70	70	70	76	73
Wind Speed (KmpH)	3	3	3	4	4
Wind Direction (deg)	NW	NW	NW	NW	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						
19/3/2019	001	19.2	07.1			
20/3/2019	005	N/A	09.6			
21/3/2019	006	18.4	N/A			

- >> Probability of very light rain
- >> Max temp may be vary from 21-23°C, whereas, Min temp may vary from 10-12°C
- >> Sky will remain Generally cloudy
- Max RH is likely to be 80-88%, whereas, Min RH may var from 70-76%
- >> Wind speed may likely vary from 3-4 km/hr.
- > Wind direction may blow from North westerly
- > Weekly cumulative rainfall= 2 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.
- 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	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
crop/Annnai	Acriou		ural arapai
	Agricu	Itural and Horticultu	irai crups:
Maize	Land preparation		Maize sowing should be done at 5-6
	and sowing		cm depth with a spacing of $60 \text{ cm} \times$
			$20 \text{ cm} (\text{row} \times \text{plant})$
			Provide adequate drainage facilities
			Apply dolomite @ 0.5 t/ha in furrows
			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
Buckwheat	Harvesting		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		Regular monitoring for pest and
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.
			Harvest 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/	Nursery should prepare at 15 cm of
cherry		late blight	height with 1 m width and length as
pepper/Brinjal		C	per farmers convenience.
1 11 5			25-28 days old seedlings should be
			planted at 60 cm $\times$ 45 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		Sasin 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	management
Tibetan Sheep			Feeding of concentrate feed along
			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

Cattle Channe			Francisco - defend (s. 1. d. francisco)
Cattle, Sheep		V	Farmers are advised to look for heat
and Goat			sign especially during early morning
			or late evening and ensure breeding
			of the dairy cattle 12 hr after
			observation of heat.
		۵	Breeding of the sheep/goat should be
			done 24-30 hr after observation of
			heat.
		۲	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.
		٩	Full hand milking should be
			practiced.
		۲	Frequent incomplete milking at
			interval of 4hrs should be practiced
			after parturition for minimum 1 week.
			Afterwards complete milking in a day
D 1/			is recommended.
Poultry	Coccidiosis, Ranikhet		16 hrs of light (natural and electrical)
	 disease		should be provided to adult birds for
			optimum egg production.
		۲	Frequent raking and liming of deep
			litter materials.
		۲	Inclusion of turmeric powder @
			10g/kg feed for prevention of
			coccidiosis.
		۵	Maintenance of brooder temperature
			for chicks with the help of electrical
		_	bulbs for initial one month.
		0	Ranikhet vaccination at 5 <sup>th</sup> day and at
			$30^{\text{th}}$ day of age.
		0	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	۲	Keep floor dry to avoid skin diseases.
			۲	Weaning is recommended at the age
				of 8 weeks for crossbreds and 10
				weeks for indigenous pigs.
			٩	Swine fever vaccine at the age of 8-
				10 week is recommended.
			٩	Critical heat detection in early
				morning and late evening is
				recommended.
			۲	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. Manoj Kumar	SMS	Agronomy
Sh. Boniface Lepcha	SMS	Horticulture
Dr. J.K. Singh	SMS	Plant Breeding
Dr. P. K. Pathak	SMS	Animal science
Sh. Santanu Das	SMS	Agril. Meteorology