

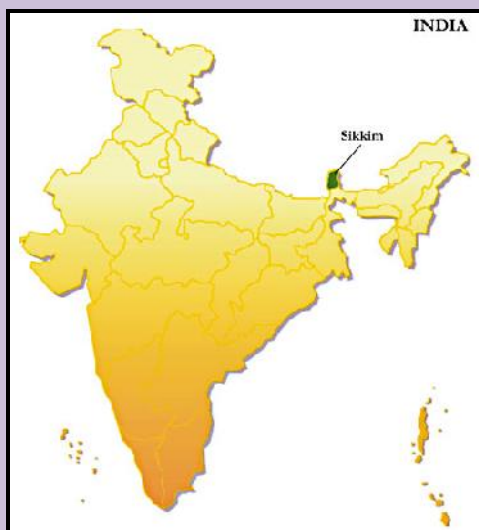


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

**PERIOD:**

**11<sup>th</sup> JANUARY to 15<sup>th</sup> JANUARY 2020**

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



**ISSUED ON 10<sup>th</sup> January 2020**

## 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	11/01/2020	12/01/2020	13/01/2020	14/01/2020	15/01/2020
Rainfall (mm)	Very light rainfall	No rain	No rain	No rain	No rain
Max Temp (°C)	16	16	17	17	17
Min Temp (°C)	07	06	06	06	06
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	86	84	83	82	82
Min RH (%)	77	75	74	72	72
Wind Speed (Kmph)	002	003	003	004	003
Wind Direction (deg)	SW	SW	SW	SE	SE

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
	(mm)	(°C)	(°C)
7-1-2020	000	20.0	08.3
8-1-2020	000	15.0	08.4
9-1-2020	N/A	11.0	08.1

### **Weather forecast valid up to 15<sup>th</sup> January 2020**

- Probability of rainfall on coming days.
- Max temp may be varying from 16-17 °C, whereas, Min temp may vary from 6-7°C
- Sky will remain generally cloudy.
- Max RH is likely to be 82-86 %, whereas, Min RH may vary from 72-77 %
- Wind speed may likely vary from 2-4 km/hr.
- Wind direction may blow from southwesterly direction.
- Weekly cumulative rainfall= 002.0 mm.

## AGRO-METEOROLOGICAL ADVISORIES

### General Advisories for all the crops/ livestock

- ➡ Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- ➡ Harvest mature crops before unexpected rain.
- ➡ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable
- ➡ बाँकी माटोको नमिमा चाँडो भन्दा चाँडो हिउँदोको फसल बिरुवा रोपन पूरा गर्नुहोस्
- ➡ अचानक पानी पर्नु भन्दा अगारि पाकेको फसल काटनुश
- ➡ जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस्

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>◆ Drain out water completely 10 days before harvesting.</li> <li>◆ Harvesting should start when the crops are 80-90% mature</li> <li>◆ Maintain seed moisture about 8-10 % for storage.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ फसल काटनु भन्दा १० दिन पहिले पानी बाहिर निकाल्नुहोस्।</li> <li>◆ फसल ८०-९०% पाकेको भएपछि फसल काटन सुरु गर्नुस्</li> <li>◆ बीउ राख्नुको लागि ८-१०% नमि कायम राख्नुहोस्</li> </ul>
Rjmarsh	Pod development		<ul style="list-style-type: none"> <li>◆ Spray neem oil @ 5ml/liter (1500 ppm) for quality seed production.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ राम्रो सग बीउ २ दिनको लागि नीमको तेल @ 5 ml\litre (1500 ppm) लगाउनुस्।</li> </ul>
Potato	Planting		<ul style="list-style-type: none"> <li>◆ Potato tubers should be healthy, medium sized and diseased free.</li> <li>◆ Prepare well seed bed for proper tuberization of potato crop.</li> <li>◆ Maintain spacing at 50-60 cm × 20-25 cm and select tuber size of 40-50 g</li> <li>◆ Apply well decompose FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha and neem cake @ 2 t/ha during field preparation.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ आलुका दाना स्वस्थ, मध्यम आकार र रोगमुक्त हुनुपर्दछ।</li> <li>◆ आलु बीउको उचित tuberazition को लागि राम्रासग बार तयार गर्नुहोस्।</li> <li>◆ 40-50 g आलु को बीउ 50-60 cm × 20-25 cm अन्तरमा रापनुस्।</li> <li>◆ पूरा कएको FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha आनि neem cake @ 2 t/ha बार तयार गदा लगाउनुस्।</li> </ul>

Field pea	Sowing		<ul style="list-style-type: none"> <li>Just after harvesting of rice, pea can be grown under zero tillage practice at 30 cm row to row distance with 15 cm plant to plant distance.</li> </ul>
			<ul style="list-style-type: none"> <li>धानका बाला काटन बात्तक पाछ मटर (zero tillage) शून्य खेतीको अनुसार at 30 cm row to row distance with 15 cm plant to plant distance मा गर्नु सकिन्छ ।</li> </ul>
Rapeseed-Mustard/Toria	Sowing		<ul style="list-style-type: none"> <li>Late variety can be grown at zero/reduced tillage after rice or maize harvest at residual soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>ढिला रापन बरुवाहरू धानका मकैको बालीनाली पछि (zero tillage) शून्य खेतीको अनुसार कम जुताइमा माटामा बाँकी भएको नमिम उब्जाउन सकिन्छ ।</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>After transplanting, apply light irrigation at alternate days for better of crop growth.</li> <li>Apply mulching just after irrigation to conserve soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>बरुवा रापपाछ बरुवालाई राम्रा बनाउन २-३ दिनमा हल्का पनिको प्रयोग गर्नुहोस्।</li> <li>माटोको नमी बचाय राख्न को लागि पानी लगाय पाछ मात्र मलाचग लगाउनुहोस्।</li> </ul>
<b>Animal Sciences and livestock management</b>			
Sheep/goat			<ul style="list-style-type: none"> <li>During winter months special care should be taken for sheep, goat for external parasites.</li> </ul>
			<ul style="list-style-type: none"> <li>जाडो माहेनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ।</li> </ul>
Poultry/chicken			<ul style="list-style-type: none"> <li>Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks.</li> <li>Low cost brooder should be made to prevent chick mortality due to cold stress.</li> <li>Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used.</li> </ul>
			<ul style="list-style-type: none"> <li>पोहेली चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थाम (३२-३३°C) राख्नुहोस्</li> <li>चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नुको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ।</li> <li>पशु पालन गृह तापमान कायम गर्नुको लागि लगातार बिजुली प्रयोग गर्नुस र आपतकालिनको लागि सिगार अथवा बुखारो प्रयोग गर्न सकिन्छ।</li> </ul>

*Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim*

<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

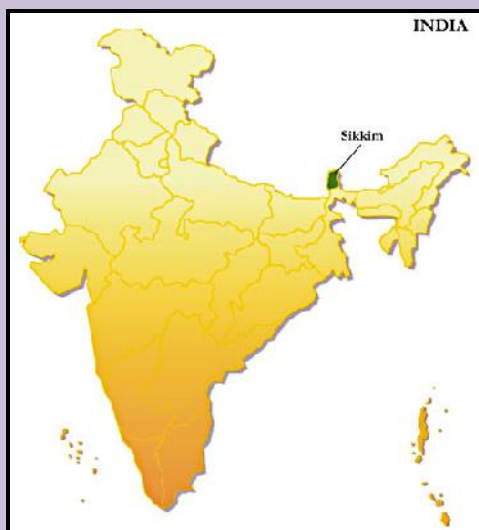


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

## PERIOD:

**11<sup>th</sup> JANUARY to 15<sup>th</sup> JANUARY 2020**

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



**ISSUED ON 10<sup>th</sup> January 2020**

### 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 EAST-DISTRICT for next five days

Parameter/Date	11/01/2020	12/01/2020	13/01/2020	14/01/2020	15/01/2020
Rainfall (mm)	Very light rainfall	No rain	No rain	No rain	No rain
Max Temp ( $^{\circ}$ C)	10	11	12	13	13
Min Temp ( $^{\circ}$ C)	05	04	04	05	05
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear	Partially clear
Max RH (%)	86	83	82	80	80
Min RH (%)	76	74	72	70	70
Wind Speed (Kmph)	001	002	002	003	003
Wind Direction (deg)	NE	NE	NE	NE	NE

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
7-1-2020	000	12.3	03.6
8-1-2020	000	10.3	04.9
9-1-2020	003	N/A	05.3

### Weather forecast valid up to 15<sup>th</sup> January 2020

- There is a probability of rainfall on coming days.
- Max temp may be varying from 10-13 $^{\circ}$ C, whereas, Min temp may vary from 4-5  $^{\circ}$ C
- Sky will remain generally cloudy.
- Max RH is likely to be 80-86 %, whereas, Min RH may vary from 70-76 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly
- Weekly cumulative rainfall= 002.0 mm



## AGRO-METEOROLOGICAL ADVISORIES

### General Advisories for all the crops/ livestock

- ➡ Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- ➡ Harvest mature crops before unexpected rain.
- ➡ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable.
- ➡ बाँकी माटोको नमिमा चाँडो भन्दा चाँडो हिउँदोको फसल बिरुवा रोपन पूरा गर्नुहोस्
- ➡ अचानक पानी पर्नु भन्दा अगारि पाकेको फसल काटनुश
- ➡ जनावरहरूको निर्माणको लागि जगा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस्

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>◆ Drain out water completely 10 days before harvesting.</li> <li>◆ Harvesting should start when the crops are 80-90% mature</li> <li>◆ Maintain seed moisture about 8-10 % for storage.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ फसल काटनु भन्दा १० दिन पहिले पानी बाहिर निकाल्नुहोस्।</li> <li>◆ फसल ८०-९०% पाकेको भएपछि फसल काटन सुरु गर्नुस्</li> <li>◆ बीउ राख्नुको लागि ८-१०% नमि कायम राख्नुहोस्</li> </ul>
Rjmash	Pod development		<ul style="list-style-type: none"> <li>◆ Spray neem oil @ 5ml/liter (1500 ppm) for quality seed production.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ राम्रो सग बीउ उत्पदनको लागि नीमको तेल @ 5 ml\litre (1500 ppm) लगाउनुस्।</li> </ul>
Potato	Planting		<ul style="list-style-type: none"> <li>◆ Potato tubers should be healthy, medium sized and diseased free.</li> <li>◆ Prepare well seed bad for proper tuberization of potato crop.</li> <li>◆ Maintain spacing at 50-60 cm × 20-25 cm and select tuber size of 40-50 g</li> <li>◆ Apply well decompose FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha and neem cake @ 2 t/ha during field preparation.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ आलुका दाना स्वस्थ, मध्यम आकार र रोगमुक्त हुनुपर्दछ।</li> <li>◆ आलु बीउको उचित tuberazition को लागि राम्रोसग बार तयार गर्नुहोस्।</li> <li>◆ 40-50 g आलु को बीउ 50-60 cm × 20-25 cm अन्तरमा राप्नुस्।</li> <li>◆ पूरा कृएको FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha आनि neem cake @ 2 t/ha बार तयार गदा लगाउनुस्।</li> </ul>



Field pea	Sowing		<ul style="list-style-type: none"> <li>Just after harvesting of rice, pea can be grown under zero tillage practice at 30 cm row to row distance with 15 cm plant to plant distance.</li> </ul>
			<ul style="list-style-type: none"> <li>धानका बाला काटन बातक पाछ मटर (zero tillage) शून्य खेतीको अनुसार at 30 cm row to row distance with 15 cm plant to plant distance मा गर्न सकिन्छ।</li> </ul>
Rapeseed-Mustard/Toria	Sowing		<ul style="list-style-type: none"> <li>Late variety can be grown at zero/ reduced tillage after rice or maize harvest at residual soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>ढला रापन बरुवाहरू धानका वा मकका बालीनाली पछि (zero tillage) शून्य खेतीको अनुसार कम जुताइमा माटामा बाँकी भूमिमा उब्जाउन सकिन्छ।</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>After transplanting, apply light irrigation at alternate days for better of crop growth.</li> <li>Apply mulching just after irrigation to conserve soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>बरुवा राप्पाछ बरुवालाई राम्रा बनाउन २-३ दिनमा हल्का पनिको प्रयोग गर्नुहोस।</li> <li>माटोको नमी बचाय राख्नु को लागि पानि लगाय पाछ मात्र मलाचग लगाउनुहोस।</li> </ul>

### *Animal Sciences and livestock management*

Sheep/goat			<ul style="list-style-type: none"> <li>During winter months special care should be taken for sheep, goat for external parasites.</li> </ul>
			<ul style="list-style-type: none"> <li>जाडो माहेनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ।</li> </ul>
Poultry/chicken			<ul style="list-style-type: none"> <li>Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks.</li> <li>Low cost brooder should be made to prevent chick mortality due to cold stress.</li> <li>Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used.</li> </ul>
			<ul style="list-style-type: none"> <li>पोहेली चार हप्ताहरू भानाराजा चलाह न्यानो अवस्थामा (३२-३३°C) राख्नुहोस</li> <li>चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नेको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ।</li> <li>पशु पालन गृह तापमान कायम गर्नेको लागि लगातार बिजुली प्रयोग गर्नु र आपतकालिनको लागि सिगार अथवा बुखारा प्रयोग गर्न सकिन्छ।</li> </ul>

*Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim*

<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu D as</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Ku mari Chettri</i>	Met. Observer	Biochemistry

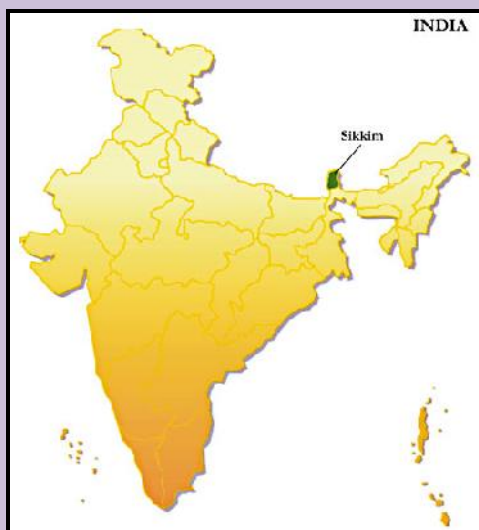


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

## PERIOD:

**11<sup>th</sup> JANUARY to 15<sup>th</sup> JANUARY 2020**

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



**ISSUED ON 10<sup>th</sup> January 2020**

### 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 SOUTH-DISTRICT for next five days**

Parameter/Date	11/01/2020	12/01/2020	13/01/2020	14/01/2020	15/01/2020
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ( $^{\circ}\text{C}$ )	14	14	15	15	16
Min Temp ( $^{\circ}\text{C}$ )	06	05	05	06	06
Sky condition	Generally cloudy	Generally cloudy	Partially clear	Partially clear	Generally cloudy
Max RH (%)	83	82	80	80	80
Min RH (%)	71	70	68	68	68
Wind Speed (Kmph)	003	004	003	004	004
Wind Direction (deg)	NE	NE	NE	NE	NE

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
	(mm)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
7-1-2020	N/A	16.4	04.5
8-1-2020	N/A	16.8	06.1
9-1-2020	N/A	13.5	07.0

### **Weather forecast valid up to 15<sup>th</sup> January 2020**

- There is probability of no rainfall.
- Max temp may be varying from 14-16 $^{\circ}\text{C}$ , whereas, Min temp may vary from 5-6 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 80-83 %, whereas, Min RH may vary from 68-71 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from northeasterly direction
- Weekly cumulative rainfall= 000.0 mm

## AGRO-METEOREOLOGICAL ADVISORIES

### General Advisories for all the crops/ livestocka

- Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- Harvest mature crops before unexpected rain.
- While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable
- बाँकी माटोको नमिमा चाँडो भन्दा चाँडो हिउँदोको फसल बिरुवा रोपन पूरा गर्नुहोस्
- अचानक पानी पर्नु भन्दा अगारि पाकेको फसल काटनुश
- जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस्

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>◆ Drain out water completely 10 days before harvesting.</li> <li>◆ Harvesting should start when the crops are 80-90% mature</li> <li>◆ Maintain seed moisture about 8-10 % for storage.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ फसल काटनु भन्दा १० दिन पहिले पानी बाहिर निकाल्नुहोस्।</li> <li>◆ फसल ८०-९०% पाकेको भएपछि फसल काटन सुरु गर्नुस्</li> <li>◆ बीउ राख्नुको लागि ८-१०% नमि कायम राख्नुहोस्</li> </ul>
Rjmath	Pod development		<ul style="list-style-type: none"> <li>◆ Spray neem oil @ 5ml/liter (1500 ppm) for quality seed production.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ राम्रो सग बीज उत्पादनको लागि नीमको तेल @ 5 ml\litre (1500 ppm) लगाउनुस्।</li> </ul>
Potato	Planting		<ul style="list-style-type: none"> <li>◆ Potato tubers should be healthy, medium sized and diseased free.</li> <li>◆ Prepare well seed bad for proper tuberization of potato crop.</li> <li>◆ Maintain spacing at 50-60 cm × 20-25 cm and select tuber size of 40-50 g</li> <li>◆ Apply well decompose FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha and neem cake @ 2 t/ha during field preparation.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ आलुका दाना स्वस्थ, मध्यम आकार र रोगमुक्त हुनुपर्दछ।</li> <li>◆ आलु बीउको उचित tuberazition को लागि राम्रासग बार तयार गर्नुहोस्।</li> <li>◆ 40-50 g आलु को बीउ 50-60 cm × 20-25 cm अन्तरमा राप्नुस्।</li> <li>◆ पूरा कृएको FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha आनि neem cake @ 2 t/ha बार तयार गदा लगाउनुस्।</li> </ul>

Field pea	Sowing		<ul style="list-style-type: none"> <li>Just after harvesting of rice, pea can be grown under zero tillage practice at 30 cm row to row distance with 15 cm plant to plant distance.</li> </ul>
			<ul style="list-style-type: none"> <li>धानका बाला काटन बातक पाछ मटर (zero tillage) शून्य खेतीको अनुसार at 30 cm row to row distance with 15 cm plant to plant distance मा गर्न सकिन्छ।</li> </ul>
Rapeseed-Mustard/Toria	Sowing		<ul style="list-style-type: none"> <li>Late variety can be grown at zero/ reduced tillage after rice or maize harvest at residual soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>ढिला रापन बरुवाहरू धानका वा मकका बालीनाली पछि (zero tillage) शून्य खेतीको अनुसार कम जताइमा माटामा बाँकी भए-नमिमा उब्जाउन सकिन्छ।</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>After transplanting, apply light irrigation at alternate days for better of crop growth.</li> <li>Apply mulching just after irrigation to conserve soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>बरुवा राप्पाछ बरुवालाई राम्रा बनाउन २-३ दिनमा हल्का पनिको प्रयोग गर्नुहोस।</li> <li>माटोको नमी बचाय राख्नु को लागि पानि लगाय पाछ मात्र मलाचग लगाउनुहोस।</li> </ul>
<b>Animal Sciences and livestock management</b>			
Sheep/goat			<ul style="list-style-type: none"> <li>During winter months special care should be taken for sheep, goat for external parasites.</li> </ul>
			<ul style="list-style-type: none"> <li>जाडो माहेनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा बचाउनु लागि विशेष ध्यान राख्नु पर्छ।</li> </ul>
Poultry/chicken			<ul style="list-style-type: none"> <li>Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks.</li> <li>Low cost brooder should be made to prevent chick mortality due to cold stress.</li> <li>Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used.</li> </ul>
			<ul style="list-style-type: none"> <li>पोहेली चार हप्ताहरूमा भानाराजा चलाहरू न्यानो अवस्थामा (३२-३३°C) राख्नुहोस</li> <li>चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नुको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ।</li> <li>पशु पालन गृह तापमान कायम गर्नुको लागि लगातार बिजुली प्रयोग गर्नुस र आपतकालिनको लागि सिगार अथवा बुखारा प्रयोग गर्न सकिन्छ।</li> </ul>



<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

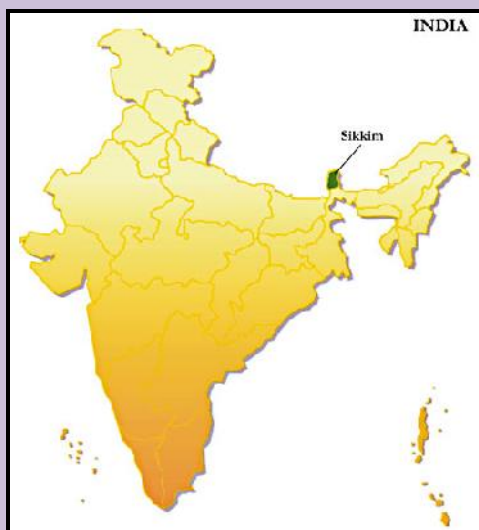


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

## PERIOD:

**11<sup>th</sup> JANUARY to 15<sup>th</sup> JANUARY 2020**

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



**ISSUED ON 10<sup>th</sup> January 2020**

### 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 WEST-DISTRICT for next five days

Parameter/Date	11/01/2020	12/01/2020	13/01/2020	14/01/2020	15/01/2020
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp ( $^{\circ}\text{C}$ )	12	13	15	15	16
Min Temp ( $^{\circ}\text{C}$ )	06	05	05	05	05
Sky condition	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Partially clear
Max RH (%)	88	86	85	82	82
Min RH (%)	78	77	75	75	74
Wind Speed (Kmph)	004	003	003	004	003
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			
Date	Rainfall	Max. Temp	Min. Temp
	(mm)	( $^{\circ}\text{C}$ )	( $^{\circ}\text{C}$ )
31-12-2019	N/A	N/A	N/A
1-1-2020	N/A	N/A	N/A
2-1-2020	N/A	N/A	N/A

### Weather forecast valid up to 8<sup>th</sup> January 2020

- There is probability of no rainfall.
- Max temp may be varying from 12-16 $^{\circ}\text{C}$ , whereas, Min temp may vary from 5-6 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 82-86 %, whereas, Min RH may vary from 75-78 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from northwesterly.
- Weekly cumulative rainfall= 000.0 mm

## AGRO-METEOROLOGICAL ADVISORIES

### General Advisories for all the crops/ livestock

- ➡ Complete the sowing of rabi crops as early as possible before residual soil moisture lost.
- ➡ Harvest mature crops before unexpected rain.
- ➡ While selecting site for construction of animal shed a site that allows sun light exposure as well as good wind control is preferable
- ➡ बाँकी माटोको नमिमा चाँडो भन्दा चाँडो हिउँदोको फसल बिरुवा रोपन पूरा गर्नुहोस्
- ➡ अचानक पानी पर्नु भन्दा अगारि पाकेको फसल काटनुश
- ➡ जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रन हुने हेर्नुस्

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Harvesting		<ul style="list-style-type: none"> <li>◆ Drain out water completely 10 days before harvesting.</li> <li>◆ Harvesting should start when the crops are 80-90% mature</li> <li>◆ Maintain seed moisture about 8-10 % for storage.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ फसल काटनु भन्दा १० दिन पहिले पानी बाहिर निकाल्नुहोस्।</li> <li>◆ फसल ८०-९०% पाकेको भएपछि फसल काटन सुरु गर्नुस्</li> <li>◆ बीउ राख्नुको लागि ८-१०% नमि कायम राख्नुहोस्</li> </ul>
Rjmarsh	Pod development		<ul style="list-style-type: none"> <li>◆ Spray neem oil @ 5ml/liter (1500 ppm) for quality seed production.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ राम्रो सग बीउ २ दिनको लागि नीमको तेल @ 5 ml\litre (1500 ppm) लगाउनुस्।</li> </ul>
Potato	Planting		<ul style="list-style-type: none"> <li>◆ Potato tubers should be healthy, medium sized and diseased free.</li> <li>◆ Prepare well seed bed for proper tuberization of potato crop.</li> <li>◆ Maintain spacing at 50-60 cm × 20-25 cm and select tuber size of 40-50 g</li> <li>◆ Apply well decompose FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha and neem cake @ 2 t/ha during field preparation.</li> </ul>
			<ul style="list-style-type: none"> <li>◆ आलुका दाना स्वस्थ, मध्यम आकार र रोगमुक्त हुनुपर्दछ।</li> <li>◆ आलु बीउको उचित tuberazition को लागि राम्रासग बार तयार गर्नुहोस्।</li> <li>◆ 40-50 g आलु को बीउ 50-60 cm × 20-25 cm अन्तरमा रापनुस्।</li> <li>◆ पूरा कएको FYM or compost @ 15 t/ha + vermicompost @ 3 t/ha आनि neem cake @ 2 t/ha बार तयार गदा लगाउनुस्।</li> </ul>

Field pea	Sowing		<ul style="list-style-type: none"> <li>Just after harvesting of rice, pea can be grown under zero tillage practice at 30 cm row to row distance with 15 cm plant to plant distance.</li> </ul>
			<ul style="list-style-type: none"> <li>धानका बाला काटन बातक पाछ मटर (zero tillage) शून्य खेतीको अनुसार at 30 cm row to row distance with 15 cm plant to plant distance मा गर्नु सकिन्छ ।</li> </ul>
Rapeseed-Mustard/Toria	Sowing		<ul style="list-style-type: none"> <li>Late variety can be grown at zero/reduced tillage after rice or maize harvest at residual soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>ढिला रापन बरुवाहरू धानका मकैको बालीनाली पछि (zero tillage) शून्य खेतीको अनुसार कम जूताइमा माटामा बोकी भएको नमिम उब्जाउन सकिन्छ ।</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>After transplanting, apply light irrigation at alternate days for better of crop growth.</li> <li>Apply mulching just after irrigation to conserve soil moisture.</li> </ul>
			<ul style="list-style-type: none"> <li>बरुवा रापपाछ बरुवालाई राम्रा बनाउन २-३ दिनमा हल्का पनिको प्रयोग गर्नुहास ।</li> <li>माटोको नमी बचाय राख्न को लागि पानि लगाय पाछ मात्र मलाचग लगाउनुहास ।</li> </ul>
<b>Animal Sciences and livestock management</b>			
Sheep/goat			<ul style="list-style-type: none"> <li>During winter months special care should be taken for sheep, goat for external parasites.</li> </ul>
			<ul style="list-style-type: none"> <li>जाडो माहेनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ ।</li> </ul>
Poultry/chicken			<ul style="list-style-type: none"> <li>Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks.</li> <li>Low cost brooder should be made to prevent chick mortality due to cold stress.</li> <li>Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used.</li> </ul>
			<ul style="list-style-type: none"> <li>पोहेली चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थाम (३२-३३°C) राख्नुहोस</li> <li>चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नुको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ ।</li> <li>पशु पालन गृह तापमान कायम गर्नुको लागि लगातार बिजुली प्रयोग गर्नुस र आपतकालिनको लागि सिगार अथवा बुखारो प्रयोग गर्न सकिन्छ ।</li> </ul>

*Agro-Met Advisory member of ICAR-NOFRI and KVK- East Sikkim*

<b>Name</b>	<b>Designation</b>	<b>Department</b>
<b><i>Dr. R. K. Avasthe</i></b>	<b>Joint Director</b>	<b>Soil Science</b>
<i>Dr. Raghavendra Singh</i>	Senior scientist and Head (I/C)	Agronomy
<i>Dr. P. K. Pathak</i>	SMS	Animal science
<i>Dr. J.K. Singh</i>	SMS	Plant Breeding
<i>Dr. Manoj Kumar</i>	SMS	Agronomy
<i>Sh. Boniface Lepcha</i>	SMS	Horticulture
<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry