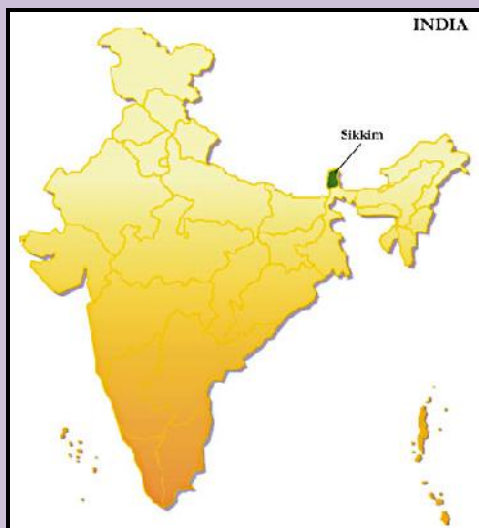




AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF **NORTH SIKKIM** PERIOD:

4th MARCH to 8th MARCH' 2020

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



ISSUED ON 3rd March 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 | 04/03/2020 | 05/03/2020 | 06/03/2020 | 07/03/2020 | 08/03/2020 |
|--------------------------|------------------|------------------|------------------|------------------|------------------|
| Rainfall (mm) | Light rainfall | Light rainfall | Light rainfall | Light rainfall | Light rainfall |
| Max Temp ($^{\circ}$ C) | 18 | 18 | 18 | 19 | 17 |
| Min Temp ($^{\circ}$ C) | 10 | 10 | 10 | 10 | 09 |
| Sky condition | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy |
| Max RH (%) | 92 | 92 | 93 | 92 | 93 |
| Min RH (%) | 77 | 77 | 82 | 81 | 82 |
| Wind Speed (Kmph) | 003 | 002 | 004 | 003 | 004 |
| Wind Direction (deg) | SE | SE | SE | 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) | ($^{\circ}$ C) | ($^{\circ}$ C) |
| 29-2-2020 | 000 | 23.4 | 09.2 |
| 1-3-2020 | 000 | N/A | 10.6 |
| 2-3-2020 | 010 | 19.5 | N/A |

Weather forecast valid up to 8th March 2020

- There is probability of light rainfall on coming days.
- Max temp may be varying from 17-19 $^{\circ}$ C, whereas, Min temp may vary from 9-10 $^{\circ}$ C
- Sky will remain generally cloudy.
- Max RH is likely to be 92-93%, whereas, Min RH may vary from 77-82 %
- Wind speed may likely vary from 2-4 km/hr.
- Wind direction may blow from southeasterly direction
- Weekly cumulative rainfall= 017.0 mm

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ✚ Apply irrigation if temperature falls down below 4-5°C.
- ✚ If dry spell prevails longer time, irrigate the field to keep moist.
- ✚ While selecting site for construction of animal shed, allows sun light exposure as well as wind is preferable.
- ✚ Suitable soil water conservation technique preferred to maintain the fields moist, otherwise irrigation should be apply to the vegetable crops.
- ✚ सिँचाई लागू गर्नुहोस् यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरेपिछ।
- ✚ यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई चिसो राख्नुहोस्।
- ✚ जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रण हुने हेर्नुस्।
- ✚ खेती मा पानी संरक्षण गर्नको लागि तकनिक गरेर राख्नुपर्छ; यद्यपि तरकारी बालीका लागि सिँचाईको दोस्रो स्रोत उपलब्ध हुनुपर्दछ।

| Name of the crop/Animal | Stage | Cultural practices/ Pest/ Diseases | Agro-Met Advisories |
|---|------------------|---------------------------------------|--|
| <i>Agricultural and Horticultural crops:</i> | | | |
| Potato | Vegetative stage | | <ul style="list-style-type: none"> ■ Avoid water stagnation. ■ Irrigate the crop to maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ Infected plants with late blight disease must be removed and destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. |
| | | | <ul style="list-style-type: none"> ◆ पानी जम्ने वा नजम्नेको लागि नजर राख्नुहोस्। ◆ बालीमा सिँचाई गर्नुहोस् र उपलब्ध माटोको नमी (ASM) लाई ७५% मा कायम राख्नुहोस्। ◆ आलुलाई जारोबाट बचाउन यसमा हल्का सिँचाई लगाउनुहोस्। ◆ लेटब्लइट रोग संक्रमित हुने बित्तिकै आलु पत्ता लाई हटाउनु र नष्ट गर्नुपर्दछ। ◆ लेट ब्लाइट रोग नियन्त्रण गर्न 7-10 दिनको मध्यान्तरमा ब्लिटक्स @ 2.5 g/l स्प्रे गर्नुहोस्। |
| Field pea | Fruiting | | <ul style="list-style-type: none"> ■ Soil moisture should be maintained for good growth and yield. ■ One or two light and uniform irrigation should be given at flowering and fruiting stage. |
| | | | <ul style="list-style-type: none"> ◆ माटोको नमी सँगै बढ्ने र नपड्नेका लागि कायम गर्नेपर्दछ। ◆ एक वा दुई हल्का र एकसमान सिँचाई फूल र फलफूल चरणमा दिनु पर्छ। |
| Rapeseed-Mustard/Toria | Fruiting | | <ul style="list-style-type: none"> ■ Irrigation at pod formation stage is required. ■ In Sikkim condition mulching materials like maize stover and rice straw can be used to conserve soil moisture. ■ For management of aphid, spray neem |

| | | | |
|---|----------------|--|--|
| | | | <p>oil (1500 ppm) @ 4ml/l.</p> <ul style="list-style-type: none"> ■ Mature pods should be harvested at bright sunny days. |
| | | | <ul style="list-style-type: none"> ✚ फल लाग्ने बेलामा पानी लगाउनु आवश्यक छ। ✚ सिक्किमको अवस्थामा मकै को (सूकेको) र चामल पराल जस्ता मलचिग सामग्रीहरू माटोको ओस संरक्षण गर्न प्रयोग गर्न सकिन्छ। ✚ एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम) 4ml प्रति लिटर / एल स्प्रे गर्नुहोस् ✚ पाकेको फलहरू चर्केको घ लागेको दिनमा काट्नुपर्दछ। |
| Cole crops | Head formation | | <ul style="list-style-type: none"> ■ During head initiation and development stages proper soil moisture should be maintained. ■ Being a shallow crops earthing up must be carried on cole crops. ■ Avoid stagnant water in the field. |
| | | | <ul style="list-style-type: none"> ✚ चरणहरूमा माटोको उचित नमी कायम राख्नुपर्दछ। ✚ कोल बालीहरू (cabbage, cauliflower and broccoli) या च. दिउसो वा बिहान सबै उठाउनु पर्छ। ✚ हल्का जरा बाली भएको कोल बालीमा माटो उठाएर लगाउनु पर्छ। ✚ खेतमा जामेको पानीलाई हटानुश। |
| Animal Sciences and livestock management | | | |
| Sheep/goat | | | <ul style="list-style-type: none"> ◆ During winter months special care should be taken for sheep, goat for external parasites. |
| | | | <ul style="list-style-type: none"> ◆ जाडो महिनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ। |
| Poultry/chicken | | | <ul style="list-style-type: none"> ◆ Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks. ◆ Low cost brooder should be made to prevent chick mortality due to cold stress. ◆ Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used. |
| | | | <ul style="list-style-type: none"> ◆ पहिलो चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थामा (३२-३३°C) राख्नुहोस् ◆ चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ। ◆ पशु पालन गृह तापमान कायम गर्नको लागि लगातार बिजुली प्रयोग गर्नुस र आपतकालिनको लागि सिगिरि अथवा बुखारी प्रयोग गर्न सकिन्छ। |

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

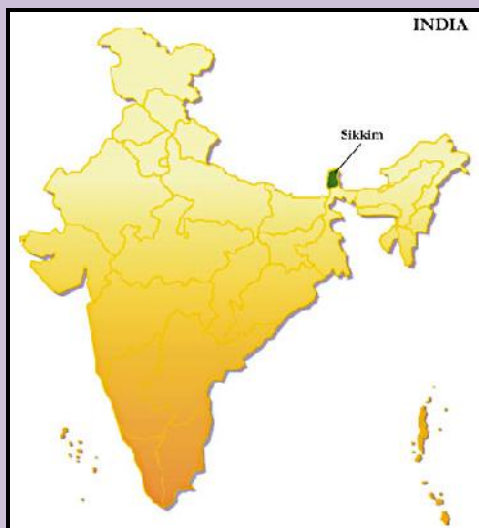
| Name | Designation | Department |
|-----------------------------------|---------------------------------------|---------------------|
| <i>Dr. R. K. Avasthe</i> | Joint Director | Soil Science |
| <i>Dr. Raghavendra Singh</i> | Senior scientist and Head (I/C) | Agronomy |
| <i>Dr. P. K. Pathak</i> | SMS | Animal science |
| <i>Dr. J.K. Singh</i> | SMS | Plant Breeding |
| <i>Dr. Manoj Kumar</i> | SMS | Agronomy |
| <i>Sh. 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:

4th MARCH to 8th MARCH' 2020

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



ISSUED ON 3rd March 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 | 04/03/2020 | 05/03/2020 | 06/03/2020 | 07/03/2020 | 08/03/2020 |
|---------------------------------|------------------|------------------|---------------------|------------------|------------------|
| Rainfall (mm) | Light rainfall | Light rainfall | Very light rainfall | Light rainfall | Light rainfall |
| Max Temp ($^{\circ}\text{C}$) | 15 | 15 | 15 | 16 | 14 |
| Min Temp ($^{\circ}\text{C}$) | 08 | 08 | 08 | 08 | 07 |
| Sky condition | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy |
| Max RH (%) | 90 | 92 | 92 | 90 | 93 |
| Min RH (%) | 71 | 80 | 80 | 75 | 82 |
| Wind Speed (Kmph) | 003 | 003 | 002 | 002 | 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 |
|-----------|----------|------------------------|------------------------|
| | (mm) | ($^{\circ}\text{C}$) | ($^{\circ}\text{C}$) |
| 29-2-2020 | 000 | 17.2 | 06.0 |
| 1-3-2020 | 000 | 17.2 | 08.2 |
| 2-3-2020 | 031 | 14.6 | 08.1 |

Weather forecast valid up to 8th March 2020

- There is probability of light rainfall on coming days.
- Max temp may be varying from 14-16 $^{\circ}\text{C}$, whereas, Min temp may vary from 7-8 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 90-92%, whereas, Min RH may vary from 71-82 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly direction
- Weekly cumulative rainfall= 015.0 mm

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ✚ Apply irrigation if temperature falls down below 4-5°C.
- ✚ If dry spell prevails longer time, irrigate the field to keep moist.
- ✚ While selecting site for construction of animal shed, allows sun light exposure as well as wind is preferable.
- ✚ Suitable soil water conservation technique preferred to maintain the fields moist, otherwise irrigation should be apply to the vegetable crops.
- ✚ सिँचाई लागू गर्नुहोस् यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरेपिछ।
- ✚ यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई चिसो राख्नुहोस्।
- ✚ जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रण हुने हेर्नुस्।
- ✚ खेती मा पानी संरक्षण गर्नको लागि तकनिक गरेर राख्नुपर्छ; यद्यपि तरकारी बालीका लागि सिँचाईको दोस्रो स्रोत उपलब्ध हुनुपर्दछ।

| Name of the crop/Animal | Stage | Cultural practices/ Pest/ Diseases | Agro-Met Advisories |
|---|------------------|---------------------------------------|--|
| <i>Agricultural and Horticultural crops:</i> | | | |
| Potato | Vegetative stage | | <ul style="list-style-type: none"> ■ Avoid water stagnation. ■ Irrigate the crop to maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ Infected plants with late blight disease must be removed and destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. |
| | | | <ul style="list-style-type: none"> ◆ पानी जम्मेन बाट नयोग्दनुहोस्। ◆ बालीमा सिँचाई गर्नुहोस् र उपलब्ध माटोको नमि (SM) लाई ७५% मा कायम राख्नुहोस्। ◆ आलुलाई जारोबाट बचाउन यसमा हल्का सिँचाई लगाउनुहोस्। ◆ लेट ब्लडट रोग संक्रमित हुन बित्तिकै आलु पत्ता लाई हटाउनु र नेष्ट गर्दौन् पदेछ। ◆ लेट ब्लडट रोग नियन्त्रण गर्न 7-10 दिनको मध्यान्तरमा ब्लिटक्स @ 2.5 g/l स्प्रे गर्नुहोस्। |
| Field pea | Fruiting | | <ul style="list-style-type: none"> ■ Soil moisture should be maintained for good growth and yield. ■ One or two light and uniform irrigation should be given at flowering and fruiting stage. |
| | | | <ul style="list-style-type: none"> ◆ माटोको नमि सँगै नमि उत्पादनका लागि कायम गर्नेपर्दछ। ◆ एक वा दुई हल्का र एकसमान सिँचाई फूल र फलफूल चरणमा दिनु पर्छ। |
| Rapeseed- Mustard/Toria | Fruiting | | <ul style="list-style-type: none"> ■ Irrigation at pod formation stage is required. ■ In Sikkim condition mulching materials like maize stover and rice straw can be used to conserve soil moisture. ■ For management of aphid, spray neem |

| | | | |
|---|----------------|--|--|
| | | | oil (1500 ppm) @ 4ml/l. ■ Mature pods should be harvested at bright sunny days. |
| | | | <ul style="list-style-type: none"> ✚ फल लाग्ने बेलामा पानी लगाउनु आवश्यक छ। ✚ सिक्किमको अवस्थामा मकै को (सूकेको) र चामल पराल जस्ता मलचिग सामग्रीहरू माटोको ओस संरक्षण ग प्रयोग गर्न सकिन्छ। ✚ एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम) @ 4ml मिलि / एल स्प्रे गर्नुहोस् ✚ पाकेको फलहरू चर्केको ढ लागेको दिनमा काट्नुपर्दछ। |
| Cole crops | Head formation | | <ul style="list-style-type: none"> ■ During head initiation and development stages proper soil moisture should be maintained. ■ Being a shallow crops earthing up must be carried on cole crops. ■ Avoid stagnant water in the field. |
| | | | <ul style="list-style-type: none"> ✚ चरणहरूमा माटोको उचित नमी कायम राख्नुपर्दछ। ✚ कोल बालीहरू (cabbage, cauliflower and broccoli) या त दिउसो वा बिहान सबै उठाउन पर्छ। ✚ हल्का नारा बाली भएको कोल बालीमा माटो उठाएर लगाउनु पर्छ। ✚ खेतमा जामेको पानीलाई हटानुश। |
| Animal Sciences and livestock management | | | |
| Sheep/goat | | | <ul style="list-style-type: none"> ◆ During winter months special care should be taken for sheep, goat for external parasites. |
| | | | <ul style="list-style-type: none"> ◆ जाडो महिनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ। |
| Poultry/chicken | | | <ul style="list-style-type: none"> ◆ Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks. ◆ Low cost brooder should be made to prevent chick mortality due to cold stress. ◆ Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used. |
| | | | <ul style="list-style-type: none"> ◆ पहिलो चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थामा (३२-३३°C) राख्नुहोस् ◆ चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ। ◆ पशु पालन गृह तापमान कायम गर्नको लागि लगातार बिजली प्रयोग गर्नुस र आपतकालिनको लागि सिगिरि अथवा बुखारी प्रयोग गर्न सकिन्छ। |

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

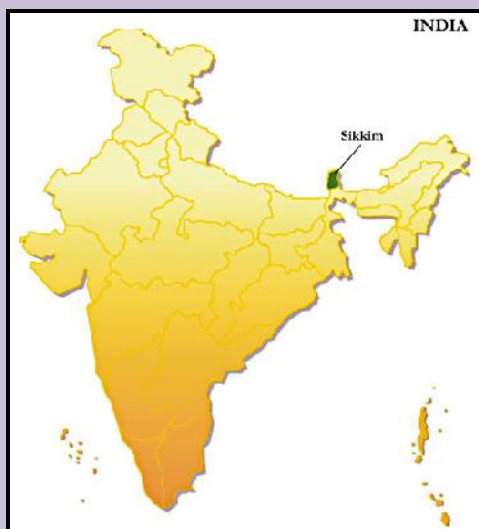
| Name | Designation | Department |
|-----------------------------------|---------------------------------------|---------------------|
| <i>Dr. R. K. Avasthe</i> | Joint Director | Soil Science |
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| <i>Dr. P. K. Pathak</i> | SMS | Animal science |
| <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 **SOUTH SIKKIM** PERIOD:

4th MARCH to 8th MARCH' 2020

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



ISSUED ON 3rd March 2020

Meteorological Sub-division of Sikkim

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- 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 | 04/03/2020 | 05/03/2020 | 06/03/2020 | 07/03/2020 | 08/03/2020 |
|---------------------------------|------------|----------------|---------------------|---------------------|---------------------|
| Rainfall (mm) | No rain | Light rainfall | Very light rainfall | Very light rainfall | Very light rainfall |
| Max Temp ($^{\circ}\text{C}$) | 18 | 18 | 17 | 19 | 16 |
| Min Temp ($^{\circ}\text{C}$) | 08 | 08 | 07 | 09 | 07 |
| Sky condition | 5 | 6 | 5 | 5 | 6 |
| Max RH (%) | 85 | 91 | 90 | 90 | 91 |
| Min RH (%) | 75 | 78 | 76 | 76 | 78 |
| Wind Speed (Kmph) | 004 | 003 | 004 | 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) | ($^{\circ}\text{C}$) | ($^{\circ}\text{C}$) |
| 29-2-2020 | N/A | 20.4 | 09.3 |
| 1-3-2020 | N/A | N/A | 10.3 |
| 2-3-2020 | N/A | 19.9 | N/A |

Weather forecast valid up to 8th March 2020

- There is probability of very light rainfall on coming days.
- Max temp may be varying from 16-19 $^{\circ}\text{C}$, whereas, Min temp may vary from 7-9 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 85-91 %, whereas, Min RH may vary from 75-78 %
- Wind speed may likely vary from 3-4 km/hr.
- Wind direction may blow from northerly direction
- Weekly cumulative rainfall= 009.0 mm

AGRO-METEREOLOGICAL ADVISORIES

General Advisories for all the crops/ livestock

- ✚ Apply irrigation if temperature falls down below 4-5°C.
- ✚ If dry spell prevails longer time, irrigate the field to keep moist.
- ✚ While selecting site for construction of animal shed, allows sun light exposure as well as wind is preferable.
- ✚ Suitable soil water conservation technique preferred to maintain the fields moist, otherwise irrigation should be apply to the vegetable crops.
- ✚ सिँचाई लागू गर्नुहोस् यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरेपिछ।
- ✚ यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई चिसो राख्नुहोस्।
- ✚ जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रण हुने हेर्नुस्।
- ✚ खेती मा पानी संरक्षण गर्नको लागि तकनिक गरेर राख्नुपर्छ; यद्यपि तरकारी बालीका लागि सिँचाईको दोस्रो स्रोत उपलब्ध हुनुपर्दछ।

| Name of the crop/Animal | Stage | Cultural practices/ Pest/ Diseases | Agro-Met Advisories |
|---|------------------|---------------------------------------|--|
| <i>Agricultural and Horticultural crops:</i> | | | |
| Potato | Vegetative stage | | <ul style="list-style-type: none"> ■ Avoid water stagnation. ■ Irrigate the crop to maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ Infected plants with late blight disease must be removed and destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. |
| | | | <ul style="list-style-type: none"> ◆ पानी जम्मेनु बाट जोगाउनुहोस्। ◆ बालीमा सिँचाई गर्नुहोस् र उपलब्ध माटोको नमी (ASM) लाई ७५% मा कायम राख्नुहोस्। ◆ आलुलाई जारोबाट बचाउन यसमा हल्का सिँचाई लगाउनुहोस्। ◆ लेटब्लइट रोग संक्रमित हुन बित्तिकै आलु पत्ता लाई हटाउनु र नष्ट गर्दोनु पर्दछ। ◆ लेट ब्लाइट रोग नियन्त्रण गर्न 7-10 दिनको मध्यान्तरमा ब्लिटक्स @ 2.5 g/l स्प्रे गर्नुहोस्। |
| Field pea | Fruiting | | <ul style="list-style-type: none"> ■ Soil moisture should be maintained for good growth and yield. ■ One or two light and uniform irrigation should be given at flowering and fruiting stage. |
| | | | <ul style="list-style-type: none"> ◆ माटोको नमी सँगै बढ्नु र रन्ध्रदना लागि कायम गर्नुपर्दछ। ◆ एक वा दुई हल्का र एकसमान सिँचाई फूल र फलफूल चरणमा दिनु पर्छ। |
| Rapeseed-Mustard/Toria | Fruiting | | <ul style="list-style-type: none"> ■ Irrigation at pod formation stage is required. ■ In Sikkim condition mulching materials like maize stover and rice straw can be used to conserve soil moisture. ■ For management of aphid, spray neem |

| | | | |
|---|----------------|--|---|
| | | | <p>oil (1500 ppm) @ 4ml/l.</p> <ul style="list-style-type: none"> ■ Mature pods should be harvested at bright sunny days. |
| | | | <ul style="list-style-type: none"> ✚ फल लाग्ने बेलामा पानी लगाउनु आवश्यक छ। ✚ सिक्किमको अवस्थामा मकै को (सूकेको) र चामल पराल जस्ता मलचिग सामग्रीहरू माटोको ओस संरक्षण ग प्रयोग गर्न सकिन्छ। ✚ एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम) @ 4ml मिलाई / एल स्प्रे गर्नुहोस् ✚ पाकेको फलहरू चर्केको ढाँचा लागेको दिनमा काट्नुपर्दछ। |
| Cole crops | Head formation | | <ul style="list-style-type: none"> ■ During head initiation and development stages proper soil moisture should be maintained. ■ Being a shallow crops earthing up must be carried on cole crops. ■ Avoid stagnant water in the field. |
| | | | <ul style="list-style-type: none"> ✚ चरणहरूमा माटोको उचित नमी कायम राख्नुपर्दछ। ✚ कोल बालीहरू (cabbage, cauliflower and broccoli) या च. दिउसो वा बिहान सबेरै उठाउनु पर्छ। ✚ हल्का जरा बाली भएको कोल बालीमा माटो उठाएर लगाउनु पर्छ। ✚ खेतमा जामेको पानीलाई हटानुश। |
| Animal Sciences and livestock management | | | |
| Sheep/goat | | | <ul style="list-style-type: none"> ◆ During winter months special care should be taken for sheep, goat for external parasites. |
| | | | <ul style="list-style-type: none"> ◆ जाडो महिनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा ब्याउनु लागि विशेष ध्यान राख्नु पर्छ। |
| Poultry/chicken | | | <ul style="list-style-type: none"> ◆ Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks. ◆ Low cost brooder should be made to prevent chick mortality due to cold stress. ◆ Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used. |
| | | | <ul style="list-style-type: none"> ◆ पहिलो चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थामा (३२-३३°C) राख्नुहोस् ◆ चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ। ◆ पशु पालन गृह तापमान कायम गर्नको लागि लगातार बिजली प्रयोग गर्नुस र आपतकालिनको लागि सिगिरि अथवा बुखारी प्रयोग गर्न सकिन्छ। |

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

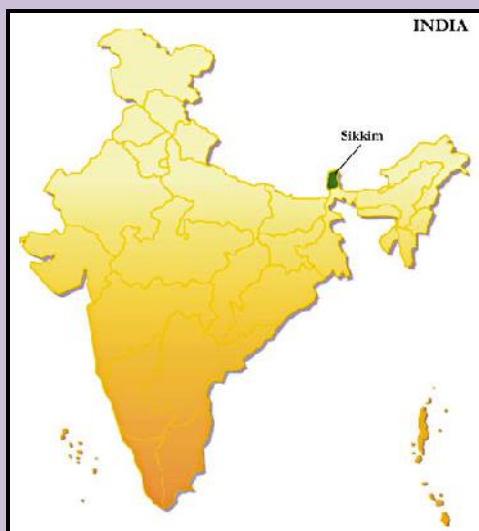
| Name | Designation | Department |
|-----------------------------------|---------------------------------------|---------------------|
| <i>Dr. R. K. Avasthe</i> | Joint Director | Soil Science |
| <i>Dr. Raghavendra Singh</i> | Senior scientist and Head (I/C) | Agronomy |
| <i>Dr. P. K. Pathak</i> | 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:

4th MARCH to 8th MARCH' 2020

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



ISSUED ON 3rd March 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 | 04/03/2020 | 05/03/2020 | 06/03/2020 | 07/03/2020 | 08/03/2020 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|
| Rainfall (mm) | No rain | Light rainfall | Very light rain | Very light rain | Very light rain |
| Max Temp ($^{\circ}\text{C}$) | 18 | 18 | 17 | 19 | 16 |
| Min Temp ($^{\circ}\text{C}$) | 08 | 08 | 07 | 09 | 07 |
| Sky condition | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy | Generally cloudy |
| Max RH (%) | 85 | 91 | 90 | 90 | 91 |
| Min RH (%) | 75 | 78 | 76 | 76 | 78 |
| Wind Speed (Kmph) | 004 | 003 | 004 | 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) | ($^{\circ}\text{C}$) | ($^{\circ}\text{C}$) |
| 29-2-2020 | 000 | 20.5 | 08.2 |
| 1-3-2020 | 000 | N/A | 09.3 |
| 2-3-2020 | 002 | 17.7 | N/A |

Weather forecast valid up to 8th March 2020

- There is probability of very light rainfall on coming days.
- Max temp may be varying from 16-19 $^{\circ}\text{C}$, whereas, Min temp may vary from 7-9 $^{\circ}\text{C}$
- Sky will remain generally cloudy.
- Max RH is likely to be 85-91 %, whereas, Min RH may vary from 75-78 %
- Wind speed may likely 3-4 km/hr.
- Wind direction may blow from northeasterly.
- Weekly cumulative rainfall= 011.0 mm

General Advisories for all the crops/ livestock

- + Apply irrigation if temperature falls down below 4-5°C.
- + If dry spell prevails longer time, irrigate the field to keep moist.
- + While selecting site for construction of animal shed, allows sun light exposure as well as wind is preferable.
- + Suitable soil water conservation technique preferred to maintain the fields moist, otherwise irrigation should be apply to the vegetable crops.
- + सिँचाई लागू गर्नुहोस् यदि तापक्रम ४-५ डिग्री सेल्सियस तल झरेपिछ।
- + यदि सुख्खा अवस्था लामो समयसम्म खेतमा रहन्छ भने पानी प्रयोग गर्नुहोस् खेतलाई चिसो राख्नुहोस्।
- + जनावरहरूको निर्माणको लागि जग्गा छानदा सूर्य प्रकाशका साथै राम्रो हावा नियन्त्रण हुने हेर्नुस्।
- + खेती मा पानी संरक्षण गरनुको लागि तकनिक गरेर राख्नुपर्छ; यद्यपि तरकारी बालीका लागि सिँचाईको दोस्रो स्रोत उपलब्ध हुनुपर्दछ।

| Name of the crop/Animal | Stage | Cultural practices/ Pest/ Diseases | Agro-Met Advisories |
|--|------------------|---------------------------------------|--|
| Agricultural and Horticultural crops: | | | |
| Potato | Vegetative stage | | <ul style="list-style-type: none"> ■ Avoid water stagnation. ■ Irrigate the crop to maintain the available soil moisture (ASM) at about 75 %. ■ To protect the potato from chilling injury apply light irrigation on it. ■ Infected plants with late blight disease must be removed and destroyed as soon as detected. ■ Spray Blitox @ 2.5 g/l at 7-10 days interval to control Late blight disease. |
| | | | <ul style="list-style-type: none"> ◆ पानी जमेनु बाट जोगाउनुहोस्। ◆ बालीमा सिँचाई गर्नुहोस् र उपलब्ध माटोको नमी (SM) लाई ७५% मा कायम राख्नुहोस्। ◆ आलुलाई जराबाट बचाउन यसमा हल्का सिँचाई लगाउनुहोस्। ◆ लेटब्लइट रोग संक्रमित हुन बित्तिकै आलु पत्ता लाई हटाउनु र नष्ट गरदीनु पर्दछ। ◆ लेट ब्लाइट रोग नियन्त्रण गर्न ७-१० दिनको मध्यान्तरमा ब्लिटक्स @ २.५ g/l स्प्रे गर्नुहोस्। |
| Field pea | Fruiting | | <ul style="list-style-type: none"> ■ Soil moisture should be maintained for good growth and yield. ■ One or two light and uniform irrigation should be given at flowering and fruiting stage. |
| | | | <ul style="list-style-type: none"> ◆ माटोको नमी संरक्षण गर्न उत्पादनका लागि कायम गर्नुपर्दछ। ◆ एक वा दुई हल्का र एकसमान सिँचाई फूल र फलफूल चरणमा दिनु पर्छ। |
| Rapeseed-Mustard/Toria | Fruiting | | <ul style="list-style-type: none"> ■ Irrigation at pod formation stage is required. ■ In Sikkim condition mulching materials like maize stover and rice straw can be used to conserve soil moisture. ■ For management of aphid, spray neem oil (1500 ppm) @ 4ml/l. |

| | | | |
|---|----------------|--|--|
| | | | <ul style="list-style-type: none"> ■ Mature pods should be harvested at bright sunny days. |
| | | | <ul style="list-style-type: none"> ✚ फल लाग्ने बेलामा पानि लगाउनु आवश्यक छ। ✚ सिक्किमको अवस्थामा मकै को बोद (सुकेको) र चामल पराल जस्ता मलचिंग सामग्रीहरू माटोको ओस संरक्षण गर्न प्रयोग गर्न सकिन्छ। ✚ एफिडको व्यवस्थापनका लागि, नीमको तेल (1500 पीपीएम), 10:1:1 मिश्रण / एल स्प्रे गर्नुहोस् ✚ पाकेको फलहरू चर्केको घ लागेको दिनमा काटनुपर्दछ। |
| Cole crops | Head formation | | <ul style="list-style-type: none"> ■ During head initiation and development stages proper soil moisture should be maintained. ■ Being a shallow crops earthing up must be carried on cole crops. ■ Avoid stagnant water in the field. |
| | | | <ul style="list-style-type: none"> ✚ चरणहरूमा माटोको उचित नमी कायम राख्नुपर्दछ। ✚ कोल बालीहरू (cabbage, cauliflower and broccoli) या त दिउसो वा बिहान सबै उठाउन पर्छ। ✚ हल्का जरा बाली भएको कोल बालीमा माटो उठाएर लगाउनु पर्छ। खेतमा जामेको पानीलाई हटानुश। |
| Animal Sciences and livestock management | | | |
| Sheep/goat | | | <ul style="list-style-type: none"> ◆ During winter months special care should be taken for sheep, goat for external parasites. |
| | | | <ul style="list-style-type: none"> ◆ जाडो महिनाहरूमा भेडा र बाख्रा हरुलाई परजीवीहरू बाटा बचाउनु लागि विशेष ध्यान राख्नु पर्छ। |
| Poultry/chicken | | | <ul style="list-style-type: none"> ◆ Keep the Vanaraja chicks in warm condition (32-33°C) during the first four weeks. ◆ Low cost brooder should be made to prevent chick mortality due to cold stress. ◆ Maintain brooding temperature through continuous electricity supply and for emergency Sigiri/Bukhari can be used. |
| | | | <ul style="list-style-type: none"> ◆ पहिलो चार हप्ताहरूमा भानाराजा चल्लाहरू न्यानो अवस्थामा (32-33°C) राख्नुहोस् ◆ चिसो तनावका कारण कुखुराहरूको मृत्युलाई रोक्न कम गर्नको लागि सस्तो पशु प्पालन गृह बनाउनु पर्छ। ◆ पशु पालन गृह तापमान कायम गर्नको लागि लगातार बिजुली प्रयोग गर्नुस र आपतकालिनको लागि सिगिरि अथवा बुखारी प्रयोग गर्न सकिन्छ। |

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

| Name | Designation | Department |
|-----------------------------------|---------------------------------------|---------------------|
| <i>Dr. R. K. Avasthe</i> | Joint Director | Soil Science |
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