

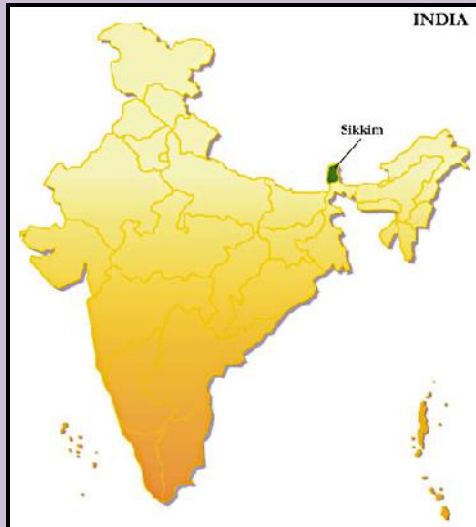


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF NORTH SIKKIM

**PERIOD:**

**23<sup>th</sup> NOVEMBER' to 27<sup>th</sup> NOVEMBER' 2019**

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



**ISSUED ON 22<sup>th</sup> November 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	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain	No rain	Very light rainfall	No rain	No rain
Max Temp (°C)	22	21	20	20	21
Min Temp (°C)	14	14	13	12	12
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	91	91	90
Min RH (%)	70	75	79	80	75
Wind Speed (Kmph)	002	003	003	004	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 (mm)	Max. Temp (°C)	Min. Temp (°C)
19/11/2019	000	N/A	15.0
20/11/2019	000	19.2	14.5
21/11/2019	000	21.9	13.9

### Weather forecast valid up to 27<sup>th</sup> November 2019


- Probability of no rain.
- Max temp may be varying from 20-22°C, whereas, Min temp may vary from 12-14°C
- Sky will remain generally cloudy.
- Max RH is likely to be 90-91 %, whereas, Min RH may vary from 70-80 %
- Wind speed may likely vary from 2-4 km/hr.
- Wind direction may blow from southeasterly 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

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Grain maturity to harvesting and postharvest		<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>
Rjmash	Pre flowering/flowering		<ul style="list-style-type: none"> <li>◆ Irrigate crop at flowering stage.</li> </ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"> <li>◆ Allow minimum entry to crop field to reduce disease infestation.</li> <li>◆ Allow proper drainage to avoid stagnation of water in the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li> </ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"> <li>◆ Allow proper drainage to remove excess rain water from the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li> <li>◆ Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>

Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ As there is a possibility of light to moderate rainfall so apply soil nutrients @ 25-35 kg/ha as maximum nutrient losses may occur due to rainfall.</li> </ul>
<b><i>Animal Sciences and livestock management</i></b>			
Poultry		Coccidiosis, Ranikhet disease	<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>
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>

*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

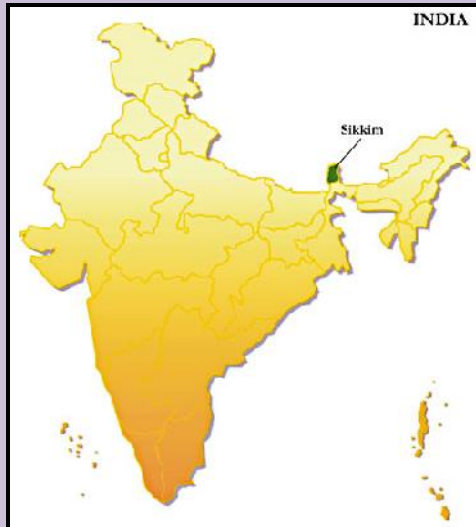


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF EAST SIKKIM

**PERIOD:**

**23<sup>th</sup> NOVEMBER' to 27<sup>th</sup> NOVEMBER' 2019**

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



**ISSUED ON 22<sup>th</sup> November 2019**

## Meteorological Sub-division of Sikkim

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- 1) North District with HQ at Mangan
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- 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	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rainfall	No rainfall	No rainfall	No rainfall	No rainfall
Max Temp (°C)	18	17	16	16	17
Min Temp (°C)	12	12	12	11	11
Sky condition	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	92	91	88
Min RH (%)	75	75	82	85	80
Wind Speed (Kmph)	002	003	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
19/11/2019	000	16.1	12.4
20/11/2019	000	15.2	12.2
21/11/2019	000	16.9	11.5

### Weather forecast valid up to 27<sup>th</sup> November 2019

- There is no probability of rainfall.
- Max temp may be varying from 16-18°C, whereas, Min temp may vary from 11-12 °C
- Sky will remain generally cloudy
- Max RH is likely to be 88-92 %, whereas, Min RH may vary from 75-85 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly
- 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

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Grain maturity to harvesting and postharvest		<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>
Rjmash	Pre flowering/flowering		<ul style="list-style-type: none"> <li>◆ Irrigate crop at flowering stage.</li> </ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"> <li>◆ Allow minimum entry to crop field to reduce disease infestation.</li> <li>◆ Allow proper drainage to avoid stagnation of water in the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li> </ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"> <li>◆ Allow proper drainage to remove excess rain water from the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li> <li>◆ Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>



Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ As there is a possibility of light to moderate rainfall so apply soil nutrients @ 25-35 kg/ha as maximum nutrient losses may occur due to rainfall.</li> </ul>
<b><i>Animal Sciences and livestock management</i></b>			
Poultry		Coccidiosis, Ranikhet disease	<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>
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>

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

<b>Name</b>	<b>Designation</b>	<b>Department</b>
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<i>Sh. Santanu Das</i>	SMS	Agril. Meteorology
<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

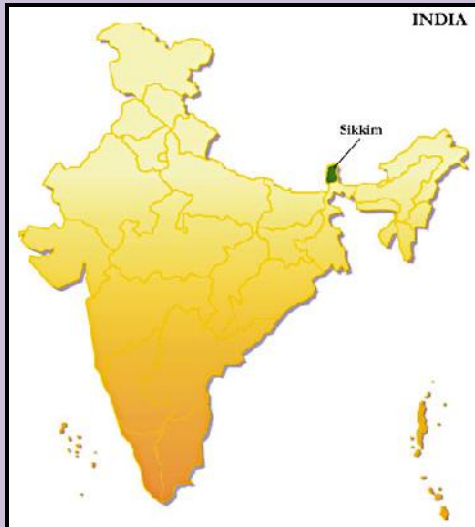


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF SOUTH SIKKIM

**PERIOD:**

**23<sup>th</sup> NOVEMBER' to 27<sup>th</sup> NOVEMBER' 2019**

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



**ISSUED ON 22<sup>h</sup> November 2019**

## 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	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	21	21	20	20	21
Min Temp (°C)	12	12	11	11	12
Sky condition	Partially clear	Partially clear	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	85	87	90	90	85
Min RH (%)	65	70	75	75	70
Wind Speed (Kmph)	002	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
	(mm)	(°C)	(°C)
19/11/2019	N/A	19.5	12.4
20/11/2019	N/A	19.8	10.9
21/11/2019	N/A	21.4	10.5

### Weather forecast valid up to 27<sup>th</sup> November 2019


- There will be no rainfall
- Max temp may be varying from 20-21°C, whereas, Min temp may vary from 11-12°C
- Sky will remain generally cloudy.
- Max RH is likely to be 85-90 %, whereas, Min RH may vary from 65-75 %
- Wind speed may likely vary from 2-3 km/hr.
- Wind direction may blow from northeasterly direction
- 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

Name of the crop/Animal	Stage	Cultural practices/ Pest/ Diseases	Agro-Met Advisories
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Grain maturity to harvesting and postharvest		<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>
Rjmash	Pre flowering/flowering		<ul style="list-style-type: none"> <li>◆ Irrigate crop at flowering stage.</li> </ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"> <li>◆ Allow minimum entry to crop field to reduce disease infestation.</li> <li>◆ Allow proper drainage to avoid stagnation of water in the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li> </ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"> <li>◆ Allow proper drainage to remove excess rain water from the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li> <li>◆ Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>

Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ As there is a possibility of light to moderate rainfall so apply soil nutrients @ 25-35 kg/ha as maximum nutrient losses may occur due to rainfall.</li> </ul>
<b><i>Animal Sciences and livestock management</i></b>			
Poultry		Coccidiosis, Ranikhet disease	<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>
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>

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

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<i>Miss Tirtha Kumari Chettri</i>	Met. Observer	Biochemistry

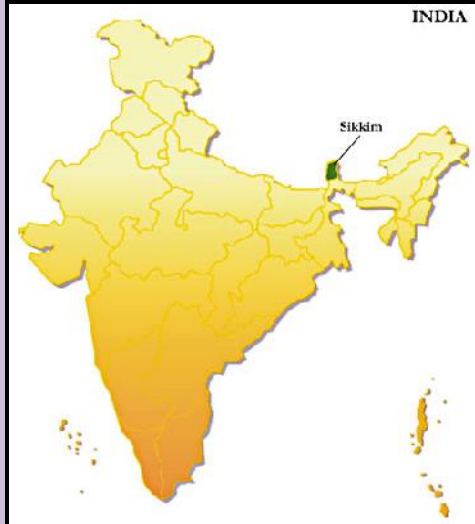


# AGRO-MET ADVISORY BULLETIN FOR THE DISTRICT OF WEST SIKKIM

**PERIOD:**

**23<sup>th</sup> NOVEMBER' to 27<sup>th</sup> NOVEMBER' 2019**

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



**ISSUED ON 22<sup>h</sup> November 2019**

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- 1) North District with HQ at Mangan
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- 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	23/11/2019	24/11/2019	25/11/2019	26/11/2019	27/11/2019
Rainfall (mm)	No rain	No rain	No rain	No rain	No rain
Max Temp (°C)	20	19	18	18	19
Min Temp (°C)	12	12	11	11	11
Sky condition	Partially cloudy	Generally cloudy	Generally cloudy	Generally cloudy	Generally cloudy
Max RH (%)	90	90	92	90	87
Min RH (%)	70	74	80	80	72
Wind Speed (Kmph)	003	003	003	004	004
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)	(°C)	(°C)
19/11/2019	000	N/A	N/A
20/11/2019	000	N/A	N/A
21/11/2019	N/A	N/A	N/A

### Weather forecast valid up to 27<sup>th</sup> November 2019


- Probability of no rainfall
- Max temp may be varying from 18-20°C, whereas, Min temp may vary from 11-12°C
- Sky will remain generally cloudy.
- Max RH is likely to be 87-90 %, whereas, Min RH may vary from 70-80 %
- 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 (English)**

- ➡ **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**

<b>Name of the crop/Animal</b>	<b>Stage</b>	<b>Cultural practices/ Pest/ Diseases</b>	<b>Agro-Met Advisories</b>
<b><i>Agricultural and Horticultural crops:</i></b>			
Rice	Grain maturity to harvesting and postharvest		<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>
Rjmash	Pre flowering/flowering		<ul style="list-style-type: none"> <li>◆ Irrigate crop at flowering stage.</li> </ul>
Ginger/ Turmeric	Tillering stage		<ul style="list-style-type: none"> <li>◆ Allow minimum entry to crop field to reduce disease infestation.</li> <li>◆ Allow proper drainage to avoid stagnation of water in the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial wilt due to high humidity and temperature.</li> </ul>
Red cherry pepper/Brinjal/ Toamto	Fruiting	Blight	<ul style="list-style-type: none"> <li>◆ Allow proper drainage to remove excess rain water from the field.</li> <li>◆ Timely monitor the field to check the attack of bacterial will due to high humidity and temperature.</li> <li>◆ Due to high temperature and high rainfall may cause late blight. Apply COC @ 0.25% at weekly interval for 4-5 sprays will reduce the disease.</li> </ul>
Cole crops	Nursery preparation		<ul style="list-style-type: none"> <li>◆ The nursery site should be dry and free from water stagnation as well as high moisture in the soil.</li> <li>◆ To protect from heavy rain the nursery should be in semi protected area.</li> </ul>

Sikkim Mandarin	Planting/fruiting		<ul style="list-style-type: none"> <li>◆ As there is a possibility of light to moderate rainfall so apply soil nutrients @ 25-35 kg/ha as maximum nutrient losses may occur due to rainfall.</li> </ul>
<b><i>Animal Sciences and livestock management</i></b>			
Poultry		Coccidiosis, Ranikhet disease	<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>
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>

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