



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****13<sup>th</sup> March, 2018****Bishnupur**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Bishnupur (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 28-29 °C &amp; minimum temp. 11-12 °C. Relative humidity may reach up to 100 % (max RH) &amp; 44 % (min RH). The average wind speed may be 0-4 km/hr.</p>
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<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

**Horticulture Crops**

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



**MANIPUR BULLETIN**

**13<sup>th</sup> March, 2018**

Chandel

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Chandel (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 26-27 °C &amp; minimum temp. 10-12 °C. Relative humidity may reach up to 91 % (max RH) &amp; 39 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

**Horticulture Crops**

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



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<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
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<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
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**MANIPUR BULLETIN****13<sup>th</sup> March, 2018****Churachandpur**

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<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Churachandpur (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 28-29 °C &amp; minimum temp. 10-11 °C. Relative humidity may reach up to 97 % (max RH) &amp; 38 % (min RH). The average wind speed may be 2-3 km/hr.</p>
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<b>Field Crops</b>			
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<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
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<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
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<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

**Horticulture Crops**

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

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**Animal Sciences**

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<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
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• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

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**MANIPUR BULLETIN**

**13<sup>th</sup> March, 2018**

*Imphal East*

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

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***Horticulture Crops***

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



**MANIPUR BULLETIN**

**13<sup>th</sup> March, 2018**

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Imphal West (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 27-29 °C &amp; minimum temp. 10-12 °C. Relative humidity may reach up to 97 % (max RH) &amp; 38 % (min RH). The average wind speed may be 0-3 km/hr.</p>
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<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

**Horticulture Crops**

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



**MANIPUR BULLETIN**

**13<sup>th</sup> March, 2018**

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Senapati (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 24-26 °C &amp; minimum temp. 6-8 °C. Relative humidity may reach up to 100 % (max RH) &amp; 40 % (min RH). The average wind speed may be 2-4 km/hr.</p>
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<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

***Horticulture Crops***

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

(I. Meghachandra Singh)  
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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



**MANIPUR BULLETIN**

**13<sup>th</sup> March, 2018**

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Tamenglong (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 25-27 °C &amp; minimum temp. 7-9 °C. Relative humidity may reach up to 90 % (max RH) &amp; 40 % (min RH). The average wind speed may be 2-3 km/hr.</p>
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<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

***Horticulture Crops***

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



**ICAR Research Complex for N.E.H. Region**

**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

(I. Meghachandra Singh)  
Scientist i/c, GKMS



**ICAR Research Complex for N.E.H. Region**  
**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****13<sup>th</sup> March, 2018**Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Thoubal (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 28-29 °C &amp; minimum temp. 11-12 °C. Relative humidity may reach up to 100 % (max RH) &amp; 44 % (min RH). The average wind speed may be 2-4 km/hr.</p>
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<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Pre-kharif Rice</b>	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing. - Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. - After 3-4 days of transplanting water level of 5-8 cm may be maintained.
<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
<b>Field Pea/ Lentil/ Blackgram (late variety)</b>	Maturity to harvesting		Harvest mature pods. Retain well filled disease free mature pods for seeds.
<b>Rabi Maize</b>	Vegetative to pre-flowering		- If the soil is dry, give light irrigation to maintain soil moisture status. - Weeding may be done.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuran 3G at maize whorl.
<b>Potato</b>	Maturity to harvesting		- For seed: <ul style="list-style-type: none"> <li>• Strict supervision on removal of unwanted plant type should be maintained.</li> <li>• Maturity days should be strictly maintained as per variety.</li> <li>• Harvest the crop after 10-15 days after haulm cutting.</li> </ul>
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.

**Horticulture Crops**

\* Give life saving irrigation to passion fruit, pineapple and other fruit crops. Apply mulch with dry grass at the basin to conserve the soil moisture.

<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Tree bean/ Lime/ Lemon</b>	Land preparation and collection of planting material		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started. - Collection of good planting material from reliable source may be done.
<b>Ginger/ Turmeric</b>	Planting		- While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Urea, 375 kg SSP and 80 kg MOP. - Recommended varieties: For turmeric: Megha turmeric For ginger: Nadia - Use healthy mother rhizome of 25-30g weight and plant at a spacing of 1 ft x 1 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lit of water) for 15-20 minutes and keep under shed before planting.
<b>Chilli/ capsicum</b>	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
<b>French bean</b>	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.



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**Manipur Centre, Lamphelpat, Imphal - 795 004**

**“Gramin Krishi Mausam Seva”**



<b>Bhindi</b>	Sowing to vegetative		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. 42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
<b>Cucurbits</b>	Transplanting to vegetative		- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If transplanted in open field then mulching materials like paddy straw should be used to protect young plants from cold. Light watering must be done for already transplanted seedlings during morning hours.
<b>Onion</b>	Bulb formation to maturity		- During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
<b>Tomato</b>	Transplanting to vegetative	Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.

**Animal Sciences**

<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<b>Poultry (Chicken/ Duck)</b>	All age groups	• Ranikhet disease	• Strongly advise to Vaccinate against Ranikhet disease.
		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
<b>Sheep/ Goat</b>	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done during this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds • insecticides
<b>Pig</b>	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		• Management	• Breeding must be advocated continuously
<b>Cattle</b>	All age groups excepts the young ones	• Vaccination	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. • Cases of H.S. may be encountered during this period • Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	• Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/ biting by flies. Adopt tick control measures • Adequate care must be ensured for protecting from untimely strong rain/wind

• Fodder cultivation: Berseem/ Oat crop may be sown immediately.

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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****13<sup>th</sup> March, 2018****Ukhrul**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 14<sup>th</sup> to 18<sup>th</sup> March, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (9<sup>th</sup> to 12<sup>th</sup> March, 2018)</b>          Observed fair to partly cloudy sky <b>no</b> rainfall during past three days. Maximum temperature range of 26.8 to 28.3 °C and minimum temperature range of 9.4 to 10.2 °C with mean relative humidity 87.3 % max and 29 % min was recorded in the past four days.</p>	<p><b>Weather forecast for next five days of Ukhrul (14<sup>th</sup> to 18<sup>th</sup> March, 2018)</b>          Likely to have thunderstorm accompanied with gusty winds for next three days and cloudy to mainly cloudy sky thereafter and maximum temp. 25-27 °C &amp; minimum temp. 7-9 °C. Relative humidity may reach up to 90 % (max RH) &amp; 33 % (min RH). The average wind speed may be 3-4 km/hr.</p>
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<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
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<b>Rapeseed/ Mustard</b>	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
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