



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

**MANIPUR BULLETIN****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Imphal East (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **28-29 °C** & minimum temp. **12 °C**. Relative humidity may reach up to **91 %** (max RH) & **40 %** (min RH). The average wind speed may be **2-4 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
			<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		<p>In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.</p>
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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 save 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****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Imphal West (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **28-29 °C** & minimum temp. **11-12 °C**. Relative humidity may reach up to **91 %** (max RH) & **40 %** (min RH). The average wind speed may be **0-4 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	- Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water.
			- Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	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.



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



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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 save 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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**MANIPUR BULLETIN****27th 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 28th March to 1st April, 2018 as below:

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Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **30-31 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **94 %** (max RH) & **46 %** (min RH). The average wind speed may be **0-2 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting		<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
		Early blight	<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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“Gramin Krishi Mausam Seva”



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.
Animal Sciences			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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 save 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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**MANIPUR BULLETIN****27th March, 2018**Chandel

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Weather forecast for next five days of Chandel (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **30-31 °C** & minimum temp. **11-12 °C**. Relative humidity may reach up to **92 %** (max RH) & **40 %** (min RH). The average wind speed may be **2-3 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
			<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
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Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.
Animal Sciences			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
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		• Coccidiosis	• Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	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
Pig	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
Cattle	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****27th March, 2018****Churachandpur**

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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Churachandpur (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **28-29 °C** & minimum temp. **12 °C**. Relative humidity may reach up to **95 %** (max RH) & **33 %** (min RH). The average wind speed may be **3-4 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
			<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		<p>In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.</p>
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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“Gramin Krishi Mausam Seva”



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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 save 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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ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Senapati (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **25-26 °C** & minimum temp. **8-9 °C**. Relative humidity may reach up to **92 %** (max RH) & **38 %** (min RH). The average wind speed may be **2-4 km/hr**.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		- Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. 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

** Drainage may be constructed well to avoid water logging in and around the crop field.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	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.
Chilli/ capsicum	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	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.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	<ul style="list-style-type: none"> Ranikhet disease Coccidiosis 	<ul style="list-style-type: none"> Strongly advise to Vaccinate against Ranikhet disease. Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> Vaccination Management 	<ul style="list-style-type: none"> 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. Fly repellent must be used in the premises of the sheds insecticides
Pig	All age groups except the young	<ul style="list-style-type: none"> De-worming Vaccination 	<ul style="list-style-type: none"> De-worm with Albendazole @7.5 mg/kg b.wt. Vaccinate against FMD and Swine Fever.

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“Gramin Krishi Mausam Seva”

	ones	<ul style="list-style-type: none">• Skin disease	<ul style="list-style-type: none">• Sprayer of <i>Anti-Psoroptic</i> may be used
		<ul style="list-style-type: none">• Management	<ul style="list-style-type: none">• Breeding must be advocated continously
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none">• Vaccination	<ul style="list-style-type: none">• 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.
		<ul style="list-style-type: none">• Deworming	<ul style="list-style-type: none">• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none">• Care & Management	<ul style="list-style-type: none">• Mixture of mineral/ salts should be added in the feed.• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			<ul style="list-style-type: none">• Adequate care must be ensured for protecting from untimely strong rain/wind
<ul style="list-style-type: none">• 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****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **27 °C** & minimum temp. **11-12 °C**. Relative humidity may reach up to **93 %** (max RH) & **36 %** (min RH). The average wind speed may be **2-3 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
			<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		<p>In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.</p>
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Thoubal (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **30-31 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **99 %** (max RH) & **47 %** (min RH). The average wind speed may be **2-4 km/hr**.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		<ul style="list-style-type: none"> - Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. - If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		<ul style="list-style-type: none"> - Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Potato	Maturity to harvesting	Early blight	<ul style="list-style-type: none"> - Harvest mature crops before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
			<ul style="list-style-type: none"> - Apply Mancozeb or Mancozeb + Metalaxyl @ 20-30 g/15 litre water. - Spray 3% Boric acid during curing period after harvesting to avoid insect pest infestation during storage.
Seeds storage	Post harvest management		<p>For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moisture content or weight of charcoal and dry if required.</p> <p>For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.</p>
Horticulture Crops			
** Drainage may be constructed well to avoid water logging in and around the crop field.			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Planting		<ul style="list-style-type: none"> - 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.
Chilli/ capsicum	Nursery		<p>In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.</p>
French bean	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Bhindi	Sowing to vegetative		<ul style="list-style-type: none"> - 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.
Cucurbits	Transplanting to vegetative		<ul style="list-style-type: none"> - 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.



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



Onion	Bulb formation to maturity		- Light hoeing may be done.
		Thrips/ leaf minor	- Spray Dichlorovos 36 EC @ 0.5ml/lit of water or Cypermethrin @ 2ml/lit of water to the crop during bulb formation stage.
		Bulb rot	- Spray Sixer/ (Mencozeb + Carbendazim) @ 2 gm/lit of water as prophylactic measure against Bulb rot in the crops grown in shed.
Tomato	Flowering to fruiting		-40-45 days old tomato should be top dressed with 25 kg urea followed by earthing up and irrigation.
		Fruit borer	-Spray Sixer (Mencozeb 63 & Carbendazim 13) @ 2 gm/litre of water or Rakhwala (Biopesticide) @ 1.5-2 gm/ litre of water. After 2-3 days spray a dose of Dichlorovos 76 @ 0.5 ml/litre of water or Black dog against borer @ 0.75ml/litre of water.
Animal Sciences			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	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.
Sheep/ Goat	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
Pig	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
Cattle	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 save 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****27th 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 28th March to 1st April, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (23rd to 26th March, 2018)

Observed **no** rainfall with **clear to partly cloudy** sky during past four days but overcast on 23rd and 24th March. Maximum temperature recorded ranged from **28.3 to 29.8 °C** and minimum of **12.0 to 14.0 °C** with mean relative humidity **88.8 %** max and **35.0 %** min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (28th March to 1st April, 2018)

Likely to have scattered to widespread rainfall upto Sunday and partly cloudy to mainly cloudy sky with, maximum temp. **27 °C** & minimum temp. **11-12 °C**. Relative humidity may reach up to **94 %** (max RH) & **41 %** (min RH). The average wind speed may be **3-4 km/hr**.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Nursery to Transplanting		- Drainage and bunds may be constructed well for maintaining water level in the crop field. - Row planting of 2-3 seedlings per hill at 25x10 cm using beaded rope may be done. After 3-4 days of transplanting water level of 5-8 cm may be maintained. -If seedling is not ready for transplanting, apply DAP 2 Kg/ha before 10 days of uprooting or apply 1% urea (1 g dissolve in 1 litre water) and apply foliar spray.
Rabi Maize	Vegetative to pre-flowering		- Weeding and inter-culture operation may be done before rain. - Drainage may be constructed well to avoid water logging in and around the crop field.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratio. 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

** Drainage may be constructed well to avoid water logging in and around the crop field.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	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.
Chilli/ capsicum	Nursery		In chillies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g per litre of water to control the fungal attack.
French bean	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.

Animal Sciences

Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	<ul style="list-style-type: none"> • Ranikhet disease • Coccidiosis 	<ul style="list-style-type: none"> • Strongly advise to Vaccinate against Ranikhet disease. • Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	<ul style="list-style-type: none"> • Vaccination • Management 	<ul style="list-style-type: none"> • 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. • Fly repellent must be used in the premises of the sheds • insecticides
Pig	All age groups except the young	<ul style="list-style-type: none"> • De-worming • Vaccination 	<ul style="list-style-type: none"> • De-worm with Albendazole @7.5 mg/kg b.wt. • Vaccinate against FMD and Swine Fever.

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	ones	<ul style="list-style-type: none">• Skin disease	<ul style="list-style-type: none">• Sprayer of <i>Anti-Psoroptic</i> may be used
		<ul style="list-style-type: none">• Management	<ul style="list-style-type: none">• Breeding must be advocated continously
Cattle	All age groups excepts the young ones	<ul style="list-style-type: none">• Vaccination	<ul style="list-style-type: none">• 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.
		<ul style="list-style-type: none">• Deworming	<ul style="list-style-type: none">• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		<ul style="list-style-type: none">• Care & Management	<ul style="list-style-type: none">• Mixture of mineral/ salts should be added in the feed.• Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			<ul style="list-style-type: none">• Adequate care must be ensured for protecting from untimely strong rain/wind
<ul style="list-style-type: none">• Fodder cultivation: Berseem/ Oat crop may be sown immediately.			

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