

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

27th February, 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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 $^{\circ}$ C and minimum temperature range of 9.1 to 11.5 $^{\circ}$ C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 22-23 $^{\circ}$ C & minimum temp. 11-12 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 37 % (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	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre- flowering	Stem borer	If the soil is dry, give light irrigation to maintain soil moisture status. Weeding may be done. To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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			
	ation to passion fruit, p	oineapple and other fruit	t 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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/ Lemon	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.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Bhindi Sowing to			- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
	vegetative		finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP
			and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cbita	Transplantin	g to	- Give light frigation after 2-3 days of sowing. - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
Cucurbits	vegetative	g to	transplanted in open field then mulching materials like paddy straw should be
	vegetative		used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formati	on	- During the bulb formation stage care should be taken that the neck portion is
Omon			above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to	- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	vegetative		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening/ cloudy day. 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 Science			
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	All age groups	Management	. C. 1 1 V
Poultry (Chicken/	An age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by
			next day is suggested.
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.
		7.5	PPR immunization must be done once in every three years.
		Management	Avoid dampness to protect from Pneumonia. Avoid dampness to protect from Pneumonia.
D'	A 11	G : I: I: C :	• Increase energy feed by 5%.
Pig	All age groups except the young	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	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
Cattle	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		• Dayyorming	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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

27th February, 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 28th February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 °C and minimum temperature range of 9.1 to 11.5 °C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Chandel (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 22-23 $^{\circ}$ C & minimum temp. 11-12 $^{\circ}$ C and relative humidity may reach up to 97 % (max RH) & 33 % (min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Naoi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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 irriga	ation to passion fruit, p	pineapple and other fruit	t 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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/	Land preparation		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be
Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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).



ICAR Research Complex for N.E.H. Region

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Bhindi Sowing to			- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
	vegetative		finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP
			and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cbita	Transplantin	g to	- Give light frigation after 2-3 days of sowing. - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
Cucurbits	vegetative	g to	transplanted in open field then mulching materials like paddy straw should be
	vegetative		used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formati	on	- During the bulb formation stage care should be taken that the neck portion is
Omon			above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to	- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	vegetative		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening/ cloudy day. 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 Science			
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	All age groups	Management	. C. 1 1 V
Poultry (Chicken/	An age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by
			next day is suggested.
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.
		7.5	PPR immunization must be done once in every three years.
		Management	Avoid dampness to protect from Pneumonia. Avoid dampness to protect from Pneumonia.
D'	A 11	G : I: I: C :	• Increase energy feed by 5%.
Pig	All age groups except the young	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	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
Cattle	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		• Dayyorming	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



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Churachandpur

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Weather forecast for next five days of Churachandpur (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 21-22 $^{\circ}$ C & minimum temp. 9-10 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 34 % (min RH). The average wind speed may be 4 km/hr

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting	r est and disease	 - Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. - 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Nabi Waize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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			
			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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/	Land preparation		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be
Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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).



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Bhindi Sowing to			- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
	vegetative		finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP
			and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cbita	Transplantin	g to	- Give light frigation after 2-3 days of sowing. - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
Cucurbits	vegetative	g to	transplanted in open field then mulching materials like paddy straw should be
	vegetative		used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formati	on	- During the bulb formation stage care should be taken that the neck portion is
Omon			above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to	- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	vegetative		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening/ cloudy day. 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 Science			
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	All age groups	Management	. C. 1 1 V
Poultry (Chicken/	An age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by
			next day is suggested.
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.
		7.5	PPR immunization must be done once in every three years.
		Management	Avoid dampness to protect from Pneumonia. Avoid dampness to protect from Pneumonia.
D'	A 11	G :1: 1: 6 ::	• Increase energy feed by 5%.
Pig	All age groups except the young	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	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
Cattle	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		• Dayyorming	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



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Imphal East

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Weather forecast for next five days of Imphal East (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. $21-22~^{\circ}\text{C}$ & minimum temp. $9-10~^{\circ}\text{C}$ and relative humidity may reach up to 100~% (max RH) & 31 % (min RH). The average wind speed may be 0-4~km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Naoi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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 irriga	ation to passion fruit, p	pineapple and other fruit	t crops. Apply mulch with dry grass at the basin to conserve the soil moisture.
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Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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).



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Bhindi Sowing to			- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
	vegetative		finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP
			and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cbita	Transplantin	g to	- Give light frigation after 2-3 days of sowing. - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
Cucurbits	vegetative	g to	transplanted in open field then mulching materials like paddy straw should be
	vegetative		used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formati	on	- During the bulb formation stage care should be taken that the neck portion is
Omon			above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to	- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	vegetative		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening/ cloudy day. 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 Science			
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	All age groups	Management	. C. 1 1 V
Poultry (Chicken/	An age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by
			next day is suggested.
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.
		7.5	PPR immunization must be done once in every three years.
		Management	Avoid dampness to protect from Pneumonia. Avoid dampness to protect from Pneumonia.
D'	A 11	G :1: 1: 6 ::	• Increase energy feed by 5%.
Pig	All age groups except the young	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	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
Cattle	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		• Dayyorming	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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

27th February, 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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 °C and minimum temperature range of 9.1 to 11.5 °C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. $21-22~^{\circ}\text{C}$ & minimum temp. $9-10~^{\circ}\text{C}$ and relative humidity may reach up to 100~% (max RH) & 36 % (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	Direct seeding to transplanting	T est and disease	 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Nabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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	•		
			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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/	Land preparation		- Preparation of pits or field for planting tree bean/lime/lemon/banana may be
Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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).



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004





Bhindi Sowing to			- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies
	vegetative		finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP
			and 25kg MOP per sangam at final stage of land preparation before sowing. - Give light irrigation after 2-3 days of sowing.
Cbita	Transplantin	g to	- Give light frigation after 2-3 days of sowing. - Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
Cucurbits	vegetative	g to	transplanted in open field then mulching materials like paddy straw should be
	vegetative		used to protect young plants from cold. Light watering must be done for already
			transplanted seedlings during morning hours.
Onion	Bulb formati	on	- During the bulb formation stage care should be taken that the neck portion is
Omon			above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to	- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	vegetative		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening/ cloudy day. 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 Science			
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	All age groups	Management	. C. 1 1 V
Poultry (Chicken/	An age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by
			next day is suggested.
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.
		7.5	PPR immunization must be done once in every three years.
		Management	Avoid dampness to protect from Pneumonia. Avoid dampness to protect from Pneumonia.
D'	A 11	G : I: I: C :	• Increase energy feed by 5%.
Pig	All age groups except the young	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	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
Cattle	All age groups	 Vaccination 	• Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young		• Cases of H.S. may be encountered during this period
	ones		• Immediate treatment using appropriate drugs with the help of Consultant must
		• Dayyorming	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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

27th February, 2018

<u>Senapati</u>

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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 $^{\circ}$ C and minimum temperature range of 9.1 to 11.5 $^{\circ}$ C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Senapati (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 18-19 $^{\circ}$ C & minimum temp. 6-7 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 33 % (min RH). The average wind speed may be 0-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre- flowering		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
THE INTERIOR		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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			
	ation to passion fruit, p		t 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
Tree bean/ Lime/ Lemon	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.
Ginger/ Turmeric	Land preparation		 Land preparation for planting of ginger/ turmeric may be started. Mix manures 20-25 t/ ha 15 days before planting.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar 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		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing.



Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
(Chicken/		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
Duck)		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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	 Avoid dampness to protect from Pneumonia. Increase energy feed by 5%.
Pig	All age groups	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
	except the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones	Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

27th February, 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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 $^{\circ}$ C and minimum temperature range of 9.1 to 11.5 $^{\circ}$ C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 18-19 $^{\circ}$ C & minimum temp. 6-7 $^{\circ}$ C and relative humidity may reach up to 90 % (max RH) & 33 % (min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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 irriga	ation to passion fruit, p	pineapple and other fruit	t 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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1%) at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/	Land preparation		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be
Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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).



Manipur Centre, Lamphelpat, Imphal - 795 004





Vegetative Inger may be done at the spacing of 30cm x 45cm.Apply 25kg urea, 35 and 25kg MOP per sangam at final stage of land preparation before sow - Give light irrigation after 2-3 days of sowing. Cucurbits	adies
Cucurbits Transplanting to vegetative Transplanting to vegetative Transplanting to vegetative Transplanting to vegetative Transplant already raised 4-leaf stage seedlings under low cost polyhor transplanted in open field then mulching materials like paddy straw sho used to protect young plants from cold. Light watering must be done for transplanted seedlings during morning hours. During the bulb formation stage care should be taken that the neck por above the ground level. Light hoeing and irrigation is necessary to keep soil moist during this obove the ground level. Light hoeing and irrigation is necessary to keep soil moist during this vegetative Transplanting to protect the seedlings may be transplanted in prepared la incorporated with well decomposed FYM at a spacing of 40-45cm x5 during evening/ cloudy day. Apply Sevin dust @ 2.5 - 5.0 g/ hill at the transplanting to protect the seedlings from caterpillar/ cutworm. Bleach powder may also be applied @ 15kg/ ha to prevent bacterial wilt. Animal Sciences Name of bird/ Stage Obsease and Management Agro-meteorological advisories Agro-meteorological advisories Agro-meteorological advisories Occidiosis Stage Strongly advise to Vaccinate against Ranikhet disease. Chicken/ Duck) Parasitic Strongly advise to Vaccinate against Ranikhet disease. Give Albendazole liquid @ 40 ml for 100 birds once only and half do next day is suggested. 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 once in every three years. PRA immunization must be done once in every three years.	
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• Increase energy feed by 5%.	
Pig All age groups • Coccidial infection • Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.	
except the young • De-worm with Albendazole @7.5 mg/kg b.wt.	
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• Skin disease • Sprayer of <i>Anti-Psoroptic</i> may be used	
Cattle All age groups • Vaccination • Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
excepts the young • Cases of H.S. may be encountered during this period	
ones • Immediate treatment using appropriate drugs with the help of Consul	tant must
be advocated to safe the animals.	
• Deworming • De-worm with Albomac suspension@60-90ml for 300kg body weigh	it 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 r	ures
• Fodder cultivation: Berseem/ Oat crop may be sown immediately.	



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

27th February, 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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 °C and minimum temperature range of 9.1 to 11.5 °C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Thoubal (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 22-23 $^{\circ}$ C & minimum temp. 11-12 $^{\circ}$ C and relative humidity may reach up to 100 % (max RH) & 31 % (min RH). The average wind speed may be 0-4 km/hr.

Field Crops	C40 ~~	Dogt and discour	A que meteonelesia la delecuta
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre-		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
Rabi Maize	flowering	Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 If late blight is observed in potato, spray Mancozeb @ 2-3 g/ litre at 7 days interval for 3 times in severe case. For seed: Strict supervision on removal of unwanted plant type should be maintained. Maturity days should be strictly maintained as per variety. Harvest the crop after 10-15 days after haulm cutting.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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			
	tion to passion fruit, p		t 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
Mango	Flowering	Leaf Hopper and Leaf Weevil	- Spray Cypermethrin or Fenvelerate (0.01%) alternatively with Carbaryl (0.1% at an interval of one week. Follow the same schedule twice or thrice.
Tree bean/ Lime/	Land preparation		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be
Lemon	and collection of planting material		started Collection of good planting material from reliable source may be done.
Ginger/ Turmeric	Land preparation		- Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
Chilli/ capsicum	Nursery		In chilies 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 dwar 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).



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Vegetative Inger may be done at the spacing of 30cm x 45cm.Apply 25kg urea, 35 and 25kg MOP per sangam at final stage of land preparation before sow - Give light irrigation after 2-3 days of sowing. Cucurbits	adies
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• Deworming • De-worm with Albomac suspension@60-90ml for 300kg body weigh	it or 20-
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• 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 r	ures
• Fodder cultivation: Berseem/ Oat crop may be sown immediately.	



Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN

27th February, 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 February to 4th March, 2018 as below:

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

Observed partly cloudy to overcast sky with **10.6 mm** rainfall during past four days. Maximum temperature range of 21.4 to 27.4 $^{\circ}$ C and minimum temperature range of 9.1 to 11.5 $^{\circ}$ C with mean relative humidity 85.8 % max and 49.0 % min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (28th February to 4th March, 2018)

Likely to have light rains at isolated places upto Sunday and partly cloudy to mainly cloudy sky. The maximum temp. 19-20 $^{\circ}$ C & minimum temp. 7-8 $^{\circ}$ C and relative humidity may reach up to 97 % (max RH) & 33 % (min RH). The average wind speed may be 3-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 Apply 10-15 t of FYM/ compost per hectare before first ploughing. Apply fertilizer @ 21kg Urea, 87 kg DAP and 32 kg MOP per hectare at the time of final leveling. 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.
Rapeseed/ Mustard	Maturity		- 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.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity		Harvest mature pods. Retain well filled disease free mature pods for seeds.
Rabi Maize	Vegetative to pre- flowering		If the soil is dry, give light irrigation to maintain soil moisture status.Weeding may be done.
THE INTERIOR		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradar 3G at maize whorl.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> 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	•		
	ation to passion fruit, p		t 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
Tree bean/ Lime/ Lemon	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.
Ginger/ Turmeric	Land preparation		 - Confection of good planting material from remails source may be done. - Land preparation for planting of ginger/ turmeric may be started. Mix manures @ 20-25 t/ ha 15 days before planting.
French bean	Sowing to vegetative		- Sowing of French bean may be done in prepared land. Seed rate for dwar 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		- Land preparation for sowing bhindi may be done. Sowing of bhindi/ ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing.



Manipur Centre, Lamphelpat, Imphal - 795 004





Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
(Chicken/ Duck)		Coccidiosis	Give Amprolium @2 gms/ litre of drinking water for 5-7 days.
		Parasitic	Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
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.
		Management	 PPR immunization must be done once in every three years. Avoid dampness to protect from Pneumonia.
		Vianagement	 Avoid dampliess to protect from Theumonia. Increase energy feed by 5%.
Pig	All age groups except the young ones	Coccidial infection	Ofloxacine/Ornidazole (O2) tab twice daily for 5 days.
		De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		Vaccination	Vaccinate against FMD and Swine Fever.
		Skin disease	• Sprayer of Anti-Psoroptic may be used
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