

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

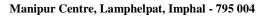
Weather forecast for next five days of Bishnupur (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $27\text{-}28~^{\circ}\text{C}$ & minimum temp. $14\text{-}15^{\circ}\text{C}$. Relative humidity may reach up to 98 % (max RH) & 51 % (min RH). The average wind speed may be 0-2 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 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			
	ntion 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
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	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 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 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







"Gramin Krishi Mausam Seva"

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.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.
Cucurbits	Transplantir vegetative	ag to	 Give light irrigation after 2-3 days of sowing. 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.
Onion	Bulb format maturity	ion to	During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin vegetative	g to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			 - 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Animal Science	es	•	
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.
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 repellant must be used in the premises of the sheds insecticides
Pig	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
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 cultive	ation: Berseem/ Oat c	rop may be sown immediately	
- 1 Ouder cultiva	ition. Berseem/ Oat c	top may be sown ininieuratery	

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



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MANIPUR BULLETIN

16th March, 2018

Chandel

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

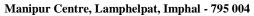
Weather forecast for next five days of Chandel (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $27\text{-}28~^{\circ}\text{C}$ & minimum temp. $13\text{-}14^{\circ}\text{C}$. Relative humidity may reach up to 95 % (max RH) & 42 % (min RH). The average wind speed may be 3-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Field Crops	T	ı	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 an cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra 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
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 Chilli/ capsicum	Planting Nursery		 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 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. In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g
French bean	-		per litre of water to control the fungal attack. - Sowing of French bean may be done in prepared land. Seed rate for dwar
rrench bean	Sowing to vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed rate for dwa varieties and to seed









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.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	Transplantii	ng to	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
	vegetative		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.
Onion	Bulb format	ion to	- During the bulb formation stage care should be taken that the neck portion is
	maturity		not disturbed above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantii	ng to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
	vegetative		prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
			incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening.
			Apply Sevin dust @ $2.5 - 5.0$ g/ hill at the time of transplanting to protect the
			seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @
			15kg/ ha to prevent bacterial wilt.
A			- A light irrigation should be given just after transplanting.
Animal Science	1	Di i	
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	A 11	Management	G. J.
Poultry (Chicken/	All 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.
Sheep/ Goat	All age groups	Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S.,
J		v ucernation	Enterotoxaemia, etc. this must be done during this month.
			PPR immunization must be done once in every three years.
		Management	Fly repellant must be used in the premises of the sheds
		Wanagement	• insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
8	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Carrie	excepts the young	v accination	Cases of H.S. may be encountered during this period
	ones		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-
		Deworming	30ml for 100 kg body weight.
		Care & Management	Mixture of mineral/ salts should be added in the feed.
		- Care & Management	Avoid the cattle from chiting/ biting by flies. Adopt tick control measures
			Adequate care must be ensured for protecting from untimely strong rain/wind
	1	rop may be sown immediately	

SMS

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Weather forecast for next five days of Churachandpur $(17^{th}\ to\ 21^{st}\ March,\ 2018)$

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $27\text{-}28~^{\circ}\text{C}$ & minimum temp. $14\text{-}15^{\circ}\text{C}$. Relative humidity may reach up to 99 % (max RH) & 47 % (min RH). The average wind speed may be 3-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

39.3 % Hilli was 16	corded in the past th	ice days.	KIII/III.
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		- For broadcasting, seeds should be uniformly sprouted before sowing Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofurada
	-		3G at maize whorl.
Potato	Maturity to harvesting		 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 an cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
* Give life saving irrig	ation to passion fruit, p	oineapple and other frui	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		- Preparation of pits or field for planting tree bean/ lime/ lemon/ banana may be started.
Ginger/ Turmeric	planting material Planting		 Collection of good planting material from reliable source may be done. 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 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 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) an



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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.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	g to	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
	vegetative		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.
Onion	Bulb formati	on to	- During the bulb formation stage care should be taken that the neck portion is
	maturity		not disturbed above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplanting	g to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
	vegetative		prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
			incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening.
			Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @
			15kg/ ha to prevent bacterial wilt.
			- A light irrigation should be given just after transplanting.
Animal Science	200		- A fight firigation should be given just after transplanting.
Name of bird/		Disease and	A gree metagral advisories
animal	Stage	Management	Agro-meteorological advisories
Poultry	All age groups	Ranikhet disease	Strongly advise to Vaccinate against Ranikhet disease.
(Chicken/	All age groups		
Duck)		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.,
2-11-p. 2-111		, accimation	Enterotoxaemia, etc. this must be done during this month.
			• PPR immunization must be done once in every three years.
		Management	Fly repellant must be used in the premises of the sheds
		Training ement	• insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
8	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	• Skin disease	Sprayer of Anti-Psoroptic may be used
			1 V
		Management	Breeding must be advocated continously
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
		-	be advocated to safe the animals.
		Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-
		G 0.16	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 cultiva 	ation: Berseem/ Oat cre	op may be sown immediately	

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



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Imphal East

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Weather forecast for next five days of Imphal East (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $27\text{-}28~^{\circ}\text{C}$ & minimum temp. $14\text{-}15~^{\circ}\text{C}$. Relative humidity may reach up to 100~% (max RH) & 39 % (min RH). The average wind speed may be 2-4~km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 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			
	ntion 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
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	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 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 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







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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.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.
Cucurbits	Transplantin vegetative	g to	 Give light irrigation after 2-3 days of sowing. 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.
Onion	Bulb format maturity	ion to	 - During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. - Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin vegetative	g to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
			 - 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Animal Science	res	•	
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.
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 repellant must be used in the premises of the sheds insecticides
Pig	All age groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
J	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
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 cultiva	ntion: Berseem/ Oat ca	op may be sown immediately	
- 1 oddor curilya	aton. Derseen Oat Cl	op may be sown ininediately	

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of
Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

Weather forecast for next five days of Imphal West (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. 27-29 °C & minimum temp. 14-15 °C. Relative humidity may reach up to 98 % (max RH) & 51 % (min RH). The average wind speed may be 2-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 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			
* Give life saving irriga	ntion 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
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	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 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 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 20kg/ha and formula transfer in 60x60 cm with 2.2 and a rankill)



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

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.42 kg Urea 94 kg SSP and 25 Kg MOP per sangam at final stage of land preparation before sowing.
Cucurbits	Transplar vegetative			 Give light irrigation after 2-3 days of sowing. 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.
Onion	Bulb form maturity	ation to		During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplar vegetative		Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
				 - 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Animal Science	es			
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.
Sheep/ Goat	All age groups	• 7	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.
		• 1	Management	Fly repellant must be used in the premises of the sheds insecticides
Pig	All age groups	• I	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
_	except the young		Vaccination	Vaccinate against FMD and Swine Fever.
	ones		Skin disease	• Sprayer of Anti-Psoroptic may be used
			Management	Breeding must be advocated continously
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 cultive	I ation: Rerseem/ Oa	cron ma	y be sown immediately	
- I odder cultive	ation. Defice iii/ Oa	Crop ma	J 55 50 WII IIIIIIGAIAICIY	•

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (17th to 21st March, 2018)

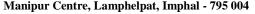
Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $25\text{-}26~^{\circ}\text{C}$ & minimum temp. $12\text{-}13^{\circ}\text{C}$. Relative humidity may reach up to 100~% (max RH) & 46 % (min RH). The average wind speed may be 2-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Field Crops	~		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofurada
Potato	Maturity to harvesting		 3G at maize whorl. 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 an cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra 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
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 Chilli/ capsicum	Planting		 - While preparing land for planting ginger/ turmeric apply 1 t FYM, 65 kg Ures 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 ft. Treat the seed rhizome with Captan (@ 2g/ lit water) or Mancozeb (@ 3g/ lof water) for 15-20 minutes and keep under shed before planting. 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 dwa varieties is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25 201 days for the control of the



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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.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 vegetative		s to	- 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.	
Onion	Onion Bulb formation maturity		on to	 During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato		Transplanting vegetative	to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
	vegettitve			 - 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - A light irrigation should be given just after transplanting.
Animal Scienc	es			
Name of bird/ animal			Disease and Management	Agro-meteorological advisories
Poultry	All ag	ge 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.
		ge 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 repellant must be used in the premises of the sheds insecticides
Pig	All ag	ge groups	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	_	the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
			Management	Breeding must be advocated continously
All age groups excepts the young ones • Fodder cultivation: Berseem/ Oat cro		ll age groups • Vaccination ccepts the young		 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
		n may be sown immediately	Adequate care must be ensured for protecting from untimely strong rain/wind	
- Found Cultiva	mon. D	Cisceni/ Oat CIC	p may be sown minieuratery	•

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $26\text{-}27~^{\circ}\text{C}$ & minimum temp. $11\text{-}13^{\circ}\text{C}$. Relative humidity may reach up to 98 % (max RH) & 51 % (min RH). The average wind speed may be 3-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 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			
* Give life saving irriga	ntion 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
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	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 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 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) an



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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.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	Transplanti	ng to	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
	vegetative		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.
Onion	Bulb forma	tion to	- During the bulb formation stage care should be taken that the neck portion is
	maturity		not disturbed above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplanti	ng to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
	vegetative		prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
			incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening.
			Apply Sevin dust @ $2.5 - 5.0$ g/ hill at the time of transplanting to protect the
			seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @
			15kg/ ha to prevent bacterial wilt.
A'			- A light irrigation should be given just after transplanting.
Animal Science	1		
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal	A 11	Management	G. J.
Poultry (Chicken/	All 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.
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 repellant must be used in the premises of the sheds
		Wanagement	• insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
J	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Cuttue	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
			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
		rop may be sown immediately	<u> </u>

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. 29-30 °C & minimum temp. 14-16°C. Relative humidity may reach up to 100 % (max RH) & 41 % (min RH). The average wind speed may be 0-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 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			
	ntion 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
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	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 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 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



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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.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	g to	- Transplant already raised 4-leaf stage seedlings under low cost polyhouse. If
	vegetative		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.
Onion	Bulb formati	on to	- During the bulb formation stage care should be taken that the neck portion is
	maturity		not disturbed above the ground level.
			- Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato	Transplantin	g to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a
	vegetative		prophylactic measure against early blight.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
			incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
			during evening.
			Apply Sevin dust @ $2.5 - 5.0$ g/ hill at the time of transplanting to protect the
			seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @
			15kg/ ha to prevent bacterial wilt.
			- A light irrigation should be given just after transplanting.
Animal Scienc	ees		
Name of bird/	Stage	Disease and	Agro-meteorological advisories
animal		Management	
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)			
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 repellant must be used in the premises of the sheds
			• insecticides
Pig	All age groups	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young	Vaccination	Vaccinate against FMD and Swine Fever.
	ones	Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
		Management	Breeding must be advocated continously
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
			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.
	1		Mixture of mineral/salts should be added in the feed.
		• Care & Management	• Mixilire of mineral/ salts should be added in the feed.
		Care & Management	
		Care & Management	 Mixture of mineral/ saits 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

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

16th 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 17th to 21st March, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (13th to 15th March, 2018)

Observed **27.6 mm** rainfall with clear sky on 14th afternoon & mainly cloudy sky on past three days. Maximum temperature range of 16.4 to 27.4 °C and minimum temperature range of 8.0 to 12.3 °C with mean relative humidity 92.3 % max and 59.3 % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (17th to 21st March, 2018)

Likely to have thunderstorm accompanied with gusty winds upto 17^{th} and clear sky thereafter and maximum temp. $26\text{-}27~^{\circ}\text{C}$ & minimum temp. $11\text{-}13~^{\circ}\text{C}$. Relative humidity may reach up to 95 % (max RH) & 44 % (min RH). The average wind speed may be 3-4 km/hr.

25-30kg/ha and for pole-type (spacing is 60x60cm with 2-3 seeds per hill).

Field Crops	T	ı	1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Direct seeding to transplanting		 For broadcasting, seeds should be uniformly sprouted before sowing. Uproot seedlings at 21-25 days after sowing depending on seedlings size and availability of water. Transplant the seedlings immediately (not later than 2 days) after uprooting to avoid transplanting shocks. After 3-4 days of transplanting water level of 5-8 cm may be maintained.
Rapeseed/ Mustard	Maturity to harvesting		- Crop may be harvested when 75% of the siliquae mature/ turned yellow. The crop should be harvested in the morning before drying of morning dew to avoid shattering of pods. Heap the uprooted plants for maturing.
Field Pea/ Lentil/ Blackgram (late variety)	Maturity to harvesting		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 Carbofuradar 3G at maize whorl.
Potato	Maturity to harvesting		 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 an cleaning of seeds along with dry charcoal at 80:20 w/w ratio. Check for moistur content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra 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
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 Chilli/ capsicum	Planting Nursery		 - 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 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. In chilies and capsicum nursery, spray Carbendazim + Mancozeb (Sixer) @ 2 g
French bean	-		per litre of water to control the fungal attack. - Sowing of French bean may be done in prepared land. Seed rate for dwar
rrench bean	Sowing to vegetative		varieties is 65kg/ha (spacing is 30x45 cm from seed to seed rate for dwa varieties and to seed



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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.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		to	- 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.
Onion	Bulb formation t maturity		n to	 During the bulb formation stage care should be taken that the neck portion is not disturbed above the ground level. Light hoeing and irrigation is necessary to keep soil moist during this phase.
Tomato		Transplanting vegetative	to Early blight	- Apply Dithane M-45 @ 2gm/ lit of water twice at 7 days interval as a prophylactic measure against early blight.
				- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt.
Animal Science	205			- A light irrigation should be given just after transplanting.
Name of bird/ animal	Stage		Disease and Managemen	8
Poultry	All ag	ge 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.
		ge 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 repellant must be used in the premises of the shedsinsecticides
Pig		ge groups	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	except the young ones		Vaccination	Vaccinate against FMD and Swine Fever.
	ones		Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used
			Management	Breeding must be advocated continously
Cattle		ge groups ts the young	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 & Managen	 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 cultiva	ation: Re	erseem/ Oat cro	p may be sown imme	· · · · · · · · · · · · · · · · · · ·

SMS

Lakliba thangja faobada nungshit ka loinana nong khara churaba yai. Morok chara da kokfai dagee ngakthoknaba Carbendazim amadi Mancozeb (Sixer) ishing litre amada 2 g yallaga kapthokpiyu.