

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-32 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 91 % (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
Rice	Maturity to harvesting		- If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram &	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
Rice bean	harvesting		dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 - For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			 After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ginger/ Turm		Rhizome ormation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.		
			Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.		
Animal Scienc	ces					
				er logging around the sheds as it may help in mosquito breeding. n and around the birds/ animals sheds.		
Name of bird/ animal	S	Stage	Disease and Management	Agro-meteorological advisories		
Poultry (Chicken//	All age	groups	Deworming	J Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with hal of the dose in empty stomach		
Duck)			J Litter Management	 Use dry litter material in the shed; if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately 		
Sheep/ Goat	All age	groups) Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.		
			J De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.		
			J Shearing for wool	Sheep should be sheared during this month.		
Pig	All age	groups he young	Coccidial infection (Diarrhea)	JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.		
	ones	, ,	J De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.		
			Vaccination	Vaccinate against FMD.		
			Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used		
Cattle exce		All age groups excepts the young ones	J Vaccination	J Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. J Cases of H.S. may be encountered during this period. J 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.		
			J Care & Management	Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures		
			Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.		
	er cultivation	on- Sowing o	f Bersum and Alfalfa should			
Fishery:			T = =			
Type of Farming	Stage		Management	Agro-metrological advisories		
Carp culture	Nurser: grow-o		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.		
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.		
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.		
* Partial/ total				Sampling of fish for growth, disease should be done regularly by netting.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

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Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Chandel (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 20-21 $^{\circ}$ C. Relative humidity may reach up to 99 % (max RH) & 90 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains. For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram &	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
Rice bean	harvesting		dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean & Broad bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



Ginger/ Turn		Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	'	iormation	Soil nutrition	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to
			management	improve soil fertility.
Animal Scienc				
				r logging around the sheds as it may help in mosquito breeding.
- Take up meas Name of bird/	1		Disease and Management	and around the birds/ animals sheds. Agro-meteorological advisories
animal	,	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age	groups	Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half
(Chicken//	1 222 1185	8F-) Deworming	of the dose in empty stomach
Duck)			Litter Management	Use dry litter material in the shed;
			, ,	if there is moisture, apply lime powder @ 1kg per 100 ft ² area
				Litter may be come wet due to sudden and unexpected rain during this time, wet
				litter must be replaced immediately
Sheep/ Goat	All age	groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Shearing for wool	J Sheep should be sheared during this month.
Pig		groups the young	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
) Vaccination	Vaccinate against FMD.
			J Skin disease	Sprayer of Anti-Psoroptic may be used
	All age	groups	J Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excepts	epts 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
			Milk fever in Milch cow	Adopt tick control measures
Forage/ fodde	er cultivati	on- Sowing o	of Bersum and Alfalfa should l	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:	or currivati	on bowing c	T Dersam and Amana should t	be stated now.
Type of	Stage		Management	Agro-metrological advisories
Farming				
Carp	Nurse	ries/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-	out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.



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17th October, 2017

Churachandpur

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Weather forecast for next five days of Churachandpur (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-32 ° C & minimum temp. 20-21 ° C. Relative humidity may reach up to 99 % (max RH) & 93 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops	G.	B (111	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Matanitanta		- If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage.
Dia.	Maturity to		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in
Rice	harvesting		colour. Stacking of the harvested panicles for 5-7 days by turning the heap of
			panicles can help in better threshing.
Rapeseed/ Field Pea/	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/
Lentil	Seed concetion		soybean/ groundnut/ black gram or rice bean.
Soybean	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
	harvesting		dried to attain required moisture content for storage.
Groundnut	Maturity to		Immediately harvest mature crops before rains For seed purpose, bundling should
	harvesting		be done and kept for 3-4 days to increase maturity.
Blackgram &	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
Rice bean	harvesting		dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	management		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage			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	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable	Land preparation		- As soon as the field condition permits, land should be ploughed properly.
nursery (Cole Crops/	for direct sowing/		- Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land
Tomato/ Garden pea, etc.)	transplanting		preparation (about 4-5 days ahead of sowing/ transplanting).
cic.)			- Transplant 25-30 days old seedlings (4 leaves stage) Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of
			water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and pre-
Tree Beam			bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and
			apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil
			to a depth of 1 ft.
			- After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic
			measure.
French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation		etc. had been harvested and where there is proper drainage facility. Recommended
			varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of
			30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x
			60cm with 2-3 seeds per hill).
			For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim +
	treatment		Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed
			for 20 minutes and let it dry in shed before planting as preventive measure against
			soil borne diseases.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



Ginger/ Turm		Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		ormation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	ces			
				r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal	\$	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All age	groups) Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with hal of the dose in empty stomach
Duck)			J Litter Management	 Use dry litter material in the shed; if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age	groups	J Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			J De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All age except t	groups the young	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
			J Vaccination	Vaccinate against FMD.
			Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle		ll age groups accepts 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
	ones			J 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
			3.6'11 C ' 3.6'1.1	Adopt tick control measures
Leanne / fodde	m oultimati	on Corring o	Milk fever in Milch cow f Bersum and Alfalfa should	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:	a cumvam	on- sowing o	i Bersum and Amana should	be started now.
Type of Farming	Stage		Management	Agro-metrological advisories
Carp culture	Nurser grow-o		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.



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17th October, 2017

Senapati

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Weather forecast for next five days of Senapati (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 28-30 ° C & minimum temp. 19-20 ° C. Relative humidity may reach up to 97 % (max RH) & 86 % (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
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram &	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
Rice bean	harvesting		dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			 After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean & Broad bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



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"Gramin Krishi Mausam Seva"



Ginger/ Turm		Chizome ormation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
			Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	ces			
	_			r logging around the sheds as it may help in mosquito breeding. and around the birds/ animals sheds.
Name of bird/ animal		tage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All age g	groups	J Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with hal of the dose in empty stomach
Duck)			J Litter Management	 Use dry litter material in the shed; if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age g	groups) Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			De-worming	J Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All age g	groups ne young	Coccidial infection (Diarrhea)	Offloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	nes	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
			J Vaccination	Vaccinate against FMD.
			Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle exce	All age g excepts tones	groups 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
			Deworming	advocated to safe the animals. De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30m 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
			Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
J Forage/ fodde	er cultivation	on- Sowing o	of Bersum and Alfalfa should b	
Fishery:				
Type of Farming	Stage		Management	Agro-metrological advisories
- · · I	Nurseri grow-o		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.

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

Sampling of fish for growth, disease should be done regularly by netting.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-32 ° C & minimum temp. 22-23 ° C. Relative humidity may reach up to 98 % (max RH) & 89 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	G.	D (1.11	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Matanita		- If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage.
Dia.	Maturity to		- Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in
Rice	harvesting		colour. Stacking of the harvested panicles for 5-7 days by turning the heap of
			panicles can help in better threshing.
Rapeseed/ Field Pea/	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/
Lentil			soybean/ groundnut/ black gram or rice bean.
Soybean	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
·	harvesting		dried to attain required moisture content for storage.
Groundnut	Maturity to		Immediately harvest mature crops before rains For seed purpose, bundling should
	harvesting		be done and kept for 3-4 days to increase maturity.
Blackgram &	Maturity to		Immediately harvest mature crops before rains. After harvesting, seeds should be
Rice bean	harvesting		dried to attain required moisture content for storage.
	Post harvest		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
~ -	management		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage			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			Maiatinon 1% on the waits of stores.
Name of the crop	Ctore	Pest and disease	Agro-meteorological advisories
Rabi vegetable	Stage Land preparation	rest and disease	- As soon as the field condition permits, land should be ploughed properly.
nursery (Cole Crops/	for direct sowing/		- As soon as the field condition permits, fand should be proughed property. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land
Tomato/ Garden pea,	transplanting		preparation (about 4-5 days ahead of sowing/ transplanting).
etc.)	u.m.sp.m.rung		- Transplant 25-30 days old seedlings (4 leaves stage).
			- Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of
			water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and pre-
			bearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and
			apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil
			to a depth of 1 ft.
			- After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic
	· .		measure.
French Bean &	Land		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits,
Broad bean	preparation		etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of
			30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of
			60cm with 2-3 seeds per hill).
			For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim +
1 ViaiV	treatment		Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed
			for 20 minutes and let it dry in shed before planting as preventive measure against
			soil borne diseases.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



Ginger/ Turm	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.			
		101111utlOII	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.			
Animal Scienc							
				logging around the sheds as it may help in mosquito breeding.			
- Take up meas Name of bird/	ures to r	Stage	Disease and Management	and around the birds/ animals sheds. Agro-meteorological advisories			
animal		Stage	Discuse and Wanagement	rigio inecorological actisories			
Poultry (Chicken//	All ago	e groups) Deworming) Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with hal of the dose in empty stomach			
Duck)			J Litter Management	 Use dry litter material in the shed; if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately 			
Sheep/ Goat	All age	e groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.			
				Lambs should be vaccinated against Enterotoxaemia.			
) De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.			
) Shearing for wool	Sheep should be sheared during this month.			
Pig	All age group except the yo		Coccidial infection (Diarrhea)	JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.			
	ones		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.			
			J Vaccination	Vaccinate against FMD.			
			Skin disease	Sprayer of Anti- <i>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 20-30m 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			
			Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.			
	r cultivat	tion- Sowing o	of Bersum and Alfalfa should be	be started now.			
Fishery:	C4 -		Managamart	A			
Type of Farming	Stage		Management	Agro-metrological advisories			
Carp culture	Nurse grow-		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.			
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.			
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.			
				Sampling of fish for growth, disease should be done regularly by netting.			



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Thoubal (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-32 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 91 % (min RH). The average wind speed may be 2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean & Broad bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



Ginger/ Turn		Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	'	iormation	Soil nutrition	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to
			management	improve soil fertility.
Animal Scienc				
				r logging around the sheds as it may help in mosquito breeding.
- Take up meas Name of bird/	1		Disease and Management	and around the birds/ animals sheds. Agro-meteorological advisories
animal	,	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age	groups	Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half
(Chicken//	1 222 1185	8F-) Deworming	of the dose in empty stomach
Duck)			Litter Management	Use dry litter material in the shed;
			, ,	if there is moisture, apply lime powder @ 1kg per 100 ft ² area
				Litter may be come wet due to sudden and unexpected rain during this time, wet
				litter must be replaced immediately
Sheep/ Goat	All age	groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Shearing for wool	J Sheep should be sheared during this month.
Pig		groups the young	Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
) Vaccination	Vaccinate against FMD.
			J Skin disease	Sprayer of Anti-Psoroptic may be used
	All age	groups	J Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excepts	epts 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
			Milk fever in Milch cow	Adopt tick control measures
Forage/ fodde	er cultivati	on- Sowing o	of Bersum and Alfalfa should l	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:	or currivati	on bowing c	T Dersam and Amana should t	be stated now.
Type of	Stage		Management	Agro-metrological advisories
Farming				
Carp	Nurse	ries/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grow-	out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. $28-30\,^{\circ}$ C & minimum temp. $20-21\,^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 86 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean & Broad bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



ICAR Research Complex for N.E.H. Region

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



fo		Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		iormation	Soil nutrition	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to
			management	improve soil fertility.
Animal Scienc				
				r logging around the sheds as it may help in mosquito breeding.
- 1ake up meas Name of bird/			Disease and Management	and around the birds/ animals sheds. Agro-meteorological advisories
animal	,	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age	groups	Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half
(Chicken//) beworning	of the dose in empty stomach
Duck)			Litter Management	Use dry litter material in the shed;
			, ,	if there is moisture, apply lime powder @ 1kg per 100 ft ² area
				Litter may be come wet due to sudden and unexpected rain during this time, wet
				litter must be replaced immediately
Sheep/ Goat	All age	groups	J Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
) Shearing for wool	J Sheep should be sheared during this month.
Pig	All age greexcept the		Coccidial infection (Diarrhea)	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones		De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
) Vaccination	Vaccinate against FMD.
			J Skin disease	Sprayer of Anti-Psoroptic may be used
	All age	groups	J Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excepts	cepts 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
			Milk fever in Milch cow	Adopt tick control measures
Forage/fodde	ar cultivati	on Sowing o	of Bersum and Alfalfa should l	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
Fishery:	a cuitivati	on- sowing c	of Dersuin and Affaira should	be statted now.
Type of	Stage		Management	Agro-metrological advisories
Farming	Semge		ge	Taga mon oroginal and about the
Carp	Nursei	ries/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
- · · · · ·		ow-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

Imphal East

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Imphal East (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 88 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
Rapeseed/ Field Pea/ Lentil	Seed collection		- Procure quality seeds from reliable source for planting just after harvest of rice/soybean/groundnut/black gram or rice bean.
Soybean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Groundnut	Maturity to harvesting		Immediately harvest mature crops before rains For seed purpose, bundling should be done and kept for 3-4 days to increase maturity.
Blackgram & Rice bean	Maturity to harvesting		Immediately harvest mature crops before rains. After harvesting, seeds should be dried to attain required moisture content for storage.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rabi vegetable nursery (Cole Crops/ Tomato/ Garden pea, etc.)	Land preparation for direct sowing/ transplanting		 - As soon as the field condition permits, land should be ploughed properly. - Incorporate Tricoderma harzianum @ 5-6 kg/ sangam at the time of final land preparation (about 4-5 days ahead of sowing/ transplanting). - Transplant 25-30 days old seedlings (4 leaves stage). - Treat garden pea seeds (variety like Arkel, Azad) with Bavistin @ 2.5 mg/ lit of water before sowing.
Tree Bean			- After rains, near the surrounding basin of tree bean plant (of both bearing and prebearing, i.e., above 5 yrs old), at a radius of 1 to 2 ft. light hoeing may be done and apply 60g DAP+ 10g MOP and spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. - After rains, apply 20g Carbofuran 3G/ plant if not applied earlier as prophylactic measure.
French Bean & Broad bean	Land preparation		- Sowing of pea/ French bean may be done in the plot where colocasia/ cucurbits, etc. had been harvested and where there is proper drainage facility. Recommended varieties for French bean are – Pant Anupam, Anupam (to be planted at a spacing of 30cm x 45cm) and Tangkhul Hawai (local) (to be planted at a spacing of 30cm x 60cm with 2-3 seeds per hill). For broad bean, plant local variety at a spacing of 30cm x 45cm.
Potato	Tuber seed treatment		- Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber seed for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.



Manipur Centre, Lamphelpat, Imphal - 795 004





Ginger/ Turn		hizome ormation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.	
Animal Scienc	ces			
				er logging around the sheds as it may help in mosquito breeding. n and around the birds/ animals sheds.
Name of bird/ animal	St	tage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All age g	groups	Deworming	Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with hal of the dose in empty stomach
Duck)) Litter Management	 Use dry litter material in the shed; if there is moisture, apply lime powder @ 1kg per 100 ft² area Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age g	groups) Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			J De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			J Shearing for wool	Sheep should be sheared during this month.
Pig		age groups	Coccidial infection (Diarrhea)	JOfloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	, ,	J De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
			J Vaccination	Vaccinate against FMD.
			J Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle ex		all age groups accepts the young nes) Vaccination	J 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.
			J Care & Management	Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Milk fever in Milch cow	70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	er cultivatio	n- Sowing o	f Bersum and Alfalfa should	
Fishery:			T = -	
Type of Farming	Stage		Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.	
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
			ould be done.	Sampling of fish for growth, disease should be done regularly by netting.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th October, 2017

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 18th to 22nd October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(13^{th}\ to\ 16^{th}\ October,\ 2017)$

Observed partly cloudy to overcast sky and **10.2 mm** rainfall was recorded during past four days. Maximum temperature range of 27.0 to 31.6 $^{\circ}$ C and minimum temperature range of 20.0 to 21.4 $^{\circ}$ C with mean relative humidity 93.5 % max and 69.8 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (18th to 22nd October, 2017)

Likely to have heavy rains at isolated places during next five days with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 19-20 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 88 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		 If the crop has attained maturity then water needs to be drained out nearly 15 days before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet are yellow in colour. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
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Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with 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.
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Manipur Centre, Lamphelpat, Imphal - 795 004





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