

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th 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 21st to 25th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th October, 2017)

Observed partly cloudy to overcast sky and **4.1 mm** rainfall was recorded during past three days. Maximum temperature range of 28.2 to 29.7 $^{\circ}$ C and minimum temperature range of 20.3 to 21.3 $^{\circ}$ C with mean relative humidity 91.0 % max and 71.7 % min was recorded in the past three days.

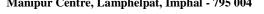
Weather forecast for next five days of Chandel (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 18-20 $^{\circ}$ 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	1		
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 is 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 under shed 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
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 sq. m.
Spinach beet	Land preparation		- Well drained soil is best for growing spinach beet.
(Palak)	& sowing		 Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



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				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.	
Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.	
		Tormation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.	
Animal Science	ces				
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories	
Poultry (Chicken//	All a	ge groups	• Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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		ge groups ot 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.	
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used	
Cattle	Cattle All age groups excepts the your 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 	
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.	
	r cultiv	ation- Sowing o	of Bersum and Alfalfa should		
Fishery:					
Type of Farming	Stag	ge	Management	Agro-metrological advisories	
Carp culture		series/ w-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.	
				Sampling of fish for growth, disease should be done regularly by netting.	
* Partial/ total	harves	ting of fish sh	ould be done.		



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Churachandpur

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Weather forecast for next five days of Churachandpur (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 18-20 $^{\circ}$ C. Relative humidity may reach up to 100 % (max RH) & 89 % (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	rest and disease	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 is 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 under shed 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
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



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				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.	
Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.	
		Тогшацоп	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.	
Animal Science	ces		1		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories	
Poultry (Chicken//	All a	ge groups	Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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		ge groups of 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.	
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used	
Cattle	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 	
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.	
Forage/ fodde	r cultiv	ation- Sowing o	of Bersum and Alfalfa should		
Fishery:			1		
Type of Farming	Stag	ge	Management	Agro-metrological advisories	
Carp culture		series/ v-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.	
				Sampling of fish for growth, disease should be done regularly by netting.	
* Partial/ total	harves	ting of fish sh	ould be done.		



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Imphal East

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Weather forecast for next five days of Imphal East (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 29 - 31 $^{\circ}$ C & minimum temp. 18 - 20 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 78 % (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 is 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 under shed 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
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. - Seed rate is 100-120g/100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



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Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.	
		Тогшацоп	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.	
Animal Science	ces		1		
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories	
Poultry (Chicken//	All a	ge groups	Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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		ge groups of 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.	
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used	
Cattle	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 	
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.	
Forage/ fodde	r cultiv	ation- Sowing o	of Bersum and Alfalfa should		
Fishery:			1		
Type of Farming	Stag	ge	Management	Agro-metrological advisories	
Carp culture		series/ v-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.	
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Imphal West

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			Vaccination	Vaccinate against FMD.	
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used	
Cattle	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 	
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.	
Forage/ fodde	r cultiv	ation- Sowing o	of Bersum and Alfalfa should		
Fishery:			1		
Type of Farming	Stag	ge	Management	Agro-metrological advisories	
Carp culture		series/ v-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.	
				Sampling of fish for growth, disease should be done regularly by netting.	
* Partial/ total	harves	ting of fish sh	ould be done.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th October, 2017

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 21st to 25th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th October, 2017)

Observed partly cloudy to overcast sky and **4.1 mm** rainfall was recorded during past three days. Maximum temperature range of 28.2 to 29.7 $^{\circ}$ C and minimum temperature range of 20.3 to 21.3 $^{\circ}$ C with mean relative humidity 91.0 % max and 71.7 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 28-29 $^{\circ}$ C & minimum temp. 17-19 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 83 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops	T		
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 day before tentative date of harvesting. Avoid water logging during maturity stage. Harvesting may be done before rains, if (75-80) % of the spikelet is 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 under shed 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 o 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
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 sq. m.
Spinach beet	Land preparation		- Well drained soil is best for growing spinach beet.
(Palak)	& sowing		 Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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
2.01110	treatment		Mancozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg tuber see



Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
omgen runn		formation		
			Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Scienc	ees			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All a	ge groups	Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	 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 groups except 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.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All a	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle		xcepts 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
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiv	ation- Sowing o	of Bersum and Alfalfa should	be started now.
Fishery:	- C1		3.5	
Type of	Stag	ge	Management	Agro-metrological advisories
Farming Carp	Nur	series/	Pond and water	Maintain minimum depth of $1.0 - 1.5$ m and pH at $7.0 - 7.5$.
culture		v-out	1 ond and water	Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
	3			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.
* Partial/ total	_			1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th 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 21st to 25th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th October, 2017)

Observed partly cloudy to overcast sky and **4.1 mm** rainfall was recorded during past three days. Maximum temperature range of 28.2 to 29.7 $^{\circ}$ C and minimum temperature range of 20.3 to 21.3 $^{\circ}$ C with mean relative humidity 91.0 % max and 71.7 % min was recorded in the past three days.

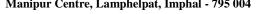
Weather forecast for next five days of Tamenglong (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 28-29 ° C & minimum temp. 17-19 ° C. Relative humidity may reach up to 98 % (max RH) & 82 % (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	Test and discuss	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 is 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 under shed 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
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



Manipur Centre, Lamphelpat, Imphal - 795 004







				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
	Tormation		Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	ces			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All a	ge groups	Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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		ge groups ot 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.
			Skin disease	Sprayer of Anti-Psoroptic may be used
Cattle	Cattle All age excepts 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
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	er cultiv	ation- Sowing o	of Bersum and Alfalfa should	be started now.
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-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. Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harves	ting of fich ch	ould be done	Sampling of tish for growth, disease should be done regularly by fletting.
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th 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 21st to 25th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th October, 2017)

Observed partly cloudy to overcast sky and **4.1 mm** rainfall was recorded during past three days. Maximum temperature range of 28.2 to 29.7 $^{\circ}$ C and minimum temperature range of 20.3 to 21.3 $^{\circ}$ C with mean relative humidity 91.0 % max and 71.7 % min was recorded in the past three days.

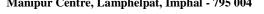
Weather forecast for next five days of Thoubal (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 29-31 $^{\circ}$ C & minimum temp. 18-20 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 77 % (min RH). The average wind speed may be 2-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting	Test and discuss	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 is 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 under shed 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
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Tormation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	ces			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	Chicken//		Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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.
_		ge groups of 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.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle		ge groups ots 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 & 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 cultiv	ation- Sowing o	of Bersum and Alfalfa should	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-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.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harves	ting of fish sh	ould be done.	



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th 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 21st to 25th October, 2017 as below:

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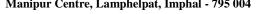
Weather forecast for next five days of Ukhrul (21st to 25th October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 28-29 ° C & minimum temp. 17-19 ° C. Relative humidity may reach up to 98 % (max RH) & 83 % (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	Test and discuss	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 is 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 under shed 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
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Land preparation & sowing		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted.
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



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"Gramin Krishi Mausam Seva"

				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Ginger/ Turn	neric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	ces		T =	
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	Chicken//		Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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.
		ge groups ot 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.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All age groups		Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	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
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiv	ation- Sowing o	f Bersum and Alfalfa should	be started now.
Fishery: Type of	Stor	70	Management	Agro-metrological advisories
Farming	Sta	ge	Management	Agro-men orogical advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	grov	w-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
			1 1311	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.
* Partial/ total	harves	ting of fish sh	ould be done.	



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

20th 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 21st to 25th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (17th to 19th October, 2017)

Observed partly cloudy to overcast sky and **4.1 mm** rainfall was recorded during past three days. Maximum temperature range of 28.2 to 29.7 $^{\circ}$ C and minimum temperature range of 20.3 to 21.3 $^{\circ}$ C with mean relative humidity 91.0 % max and 71.7 % min was recorded in the past three days.

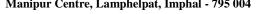
Weather forecast for next five days of Bishnupur $(21^{st}$ to 25^{th} October, 2017)

Likely to have heavy rains at isolated places upto Sunday with partly cloudy to overcast sky and maximum temp. 30 - 31 $^{\circ}$ C & minimum temp. 22-23 $^{\circ}$ C. Relative humidity may reach up to 98 % (max RH) & 87 % (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 is 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 under shed 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	
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility. - Seed rate is 100g seeds for 100 sq. m.	
Spinach beet (Palak)	Land preparation & sowing		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 sq m. If broadcasting is done, double the dose is required. 	
Onion	Nursery raising		 Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. 	
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	



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				for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Ginger/ Turn	neric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
IOIIIA		Tormation	Soil nutrition management	- Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	ces			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All a	ge groups	Deworming	• Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half 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 a	ge groups	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	Pig All age groups except 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.
			Skin disease	Sprayer of Anti-Psoroptic may be used
Cattle ex		ge groups ots 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 & 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 cultiv	ation- Sowing o	of Bersum and Alfalfa should	be started now.
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-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. Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harves	ting of fich ch	ould be done	Sampling of tish for growth, disease should be done regularly by fletting.
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