

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





MANIPUR BULLETIN

27th October, 2017

<u>Bishnupur</u>

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Bishnupur (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 27 - 28 $^{\circ}$ C & minimum temp. 12 - 13 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 87 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. 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 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . 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 m² 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 for 20 minutes and let it dry in shed before planting as preventive measure against



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"Gramin Krishi Mausam Seva"

				soil borne diseases.
Ginger/ Turm	eric	Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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 ag	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	excep	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 exce		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 cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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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MANIPUR BULLETIN

27th October, 2017

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<u>Chandel</u>

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Chandel (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 27 - 28 $^{\circ}$ C & minimum temp. 13 - 14 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 99 % (max RH) & 83 % (min RH).
recorded in the past three days.	The average wind speed may be 0-2 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
runie of the crop	Stuge	i est una alsease	Harvest crop if (75-80) % of the spikelet is yellow.
Rice	Harvesting to post		Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can
Inco	harvesting		help in better threshing. Harvested crop must be well threshed.
	ind vesting		Clean and sundry seeds to properly attain optimum moisture content before storage.
	Seed collection		Procure quality seeds from reliable source. Seeds may be sown just after harvesting
Rapeseed/ Field Pea/	and sowing		rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual
Lentil	and so wing		moisture.
			For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
Stead Storage	management		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
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Cubbuge	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings)		transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Caulinower	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings)		transplanti
	~~~~ <u>~</u> ~)		ng for main season crops.
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
Contantact	& sowing		water logging area. 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 (@ ¹ / ₂ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
Spinicen (Lunin)	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm
	8		apart. Seed rate is $100-120g/100 \text{ m}^2$ . 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 $\text{m}^2$ area we need $\frac{1}{2}$ 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
	rparation		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



## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

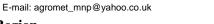
## "Gramin Krishi Mausam Seva"

				soil borne diseases.
Ginger/ Turm	eric	Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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	excep	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 exce		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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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## MANIPUR BULLETIN

# 27th October, 2017

## **Churachandpur**

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Churachandpur (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 26 - 27 $^{\circ}$ C & minimum temp. 11 - 13 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 92 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>
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



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## "Gramin Krishi Mausam Seva"

				soil borne diseases.
Ginger/ Turm	eric	Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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	excep	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 exce		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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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## MANIPUR BULLETIN

# 27th October, 2017

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## <u>Senapati</u>

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Senapati (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 25 - 26 $^{\circ}$ C & minimum temp. 10 - 12 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 76 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
French Bean & Broad bean	Land preparation		<ul> <li>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).</li> <li>For broad bean, plant local variety at a spacing of 30cm x 45cm.</li> </ul>
Ginger/ Turmeric	Rhizome formation	Rhizome rot Soil nutrition management	<ul> <li>Spray Carbendazim @2.5 g/lit of water for rhizome rot.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.</li> </ul>



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



Animal Scien	ces		
		rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
	ature is decreasing.		
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 half of the dose in empty stomach
Duck)		• Litter Management	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>Vaccinate against B.Q./ H.S. this time.</li> <li>Lambs should be vaccinated against Enterotoxaemia.</li> </ul>
		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 age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	er cultivation- Sowing of	of Bersum and Alfalfa should	be started now.
Fishery:	a.		
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. Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harvesting of fish sh	ould be done	ampring of fish for growin, disease should be done regularly by neuting.
	nurvesting of fish sh	oura de done.	



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





## MANIPUR BULLETIN

# 27th October, 2017

## **Tamenglong**

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Tamenglong (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 25 - 26 $^{\circ}$ C & minimum temp. 10 - 12 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 86 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>
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



## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

## "Gramin Krishi Mausam Seva"

				soil borne diseases.
<b>Ginger/ Turmeric</b>		Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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	excep	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 exc		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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.	





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



## MANIPUR BULLETIN

# 27th October, 2017

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## <u>Thoubal</u>

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Thoubal (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 26 - 28 $^{\circ}$ C & minimum temp. 13 - 14 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 87 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>
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



## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

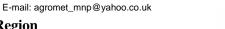
## "Gramin Krishi Mausam Seva"

				soil borne diseases.
<b>Ginger/ Turmeric</b>		Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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	excep	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 exc		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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.	





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



## MANIPUR BULLETIN

# 27th October, 2017

## <u>Ukhrul</u>

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Ukhrul (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 24 - 25 $^{\circ}$ C & minimum temp. 11 - 12 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 99 % (max RH) & 88 % (min RH).
recorded in the past three days.	The average wind speed may be 0-3 km/hr.

Field Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.	
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.	
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	
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.	
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.	
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>	
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.	
Ginger/ Turmeric	Rhizome formation	Rhizome rot Soil nutrition management	<ul> <li>Spray Carbendazim @2.5 g/lit of water for rhizome rot.</li> <li>Apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.</li> </ul>	



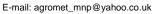
## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004 "Gramin Krishi Mausam Seva"



Animal Scien	ces		
		rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
	ature is decreasing.		
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 half of the dose in empty stomach
Duck)		• Litter Management	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All age groups	Vaccination	<ul> <li>Vaccinate against B.Q./ H.S. this time.</li> <li>Lambs should be vaccinated against Enterotoxaemia.</li> </ul>
		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
Cattle	All age groups excepts the young ones	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
		Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	er cultivation- Sowing of	of Bersum and Alfalfa should b	be started now.
Fishery:	<b>a</b> .		
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.
*		111 1	Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harvesting of fish sh	ould be done.	



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





## MANIPUR BULLETIN

# 27th October, 2017

## Imphal East

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Imphal East (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 25 - 27 $^{\circ}$ C & minimum temp. 12 - 13 $^{\circ}$ C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 76 % (min RH).
recorded in the past three days.	The average wind speed may be 0-4 km/hr.

Field Crops			1
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>
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



## ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

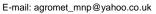
## "Gramin Krishi Mausam Seva"

				soil borne diseases.
<b>Ginger/ Turmeric</b>		Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken//	All ag	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	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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	excep	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 exc		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	l a.			
Type of Farming	Stag		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.	





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





## MANIPUR BULLETIN

# 27th October, 2017

## Imphal West

Significant past weather for the preceding bi-weekly of Imphal - West (24 th to 26 th October, 2017)	Weather forecast for next five days of Imphal West (28 th October to 1 st November, 2017)
Observed foggy sky during morning hours except on 26 th and	
mainly clear sky during afternoon hours and no rainfall was	Likely to have light rains at few places upto Wednesday with foggy
recorded during past three days. Maximum temperature range of	morning hour and mainly clear to partly cloudy sky during afternoon
27.4 to 27.5 $^{\circ}$ C and minimum temperature range of 14.0 to 17.2 $^{\circ}$	hours with maximum temp. 27 - 28 ° C & minimum temp. 12 - 14 ° C.
C with mean relative humidity 93.3 % max and 51.0 % min was	Relative humidity may reach up to 100 % (max RH) & 97 % (min RH).
recorded in the past three days.	The average wind speed may be 0-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		Harvest crop if (75-80) % of the spikelet is yellow. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds to properly attain optimum moisture content before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. Seeds may be sown just after harvesting rice/ soybean/ groundnut/ blackgram/ rice bean to make full utilization of the residual moisture.
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
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanti ng for main season crops.
Coriander	Land preparation & sowing		<ul> <li>Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².</li> </ul>
Spinach (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. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is required.
Onion	Nursery raising		<ul> <li>Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.</li> <li>check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>45-60 days old seedlings may be transplanted.</li> </ul>
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



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## "Gramin Krishi Mausam Seva"

				soil borne diseases.
Ginger/ Turm	eric	Rhizome formation	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 Science	es			
Provide clean as the tempera		-	rds and animals after rain	s. Also proper arrangements must be made in the sheds to keep them warm
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 half of the dose in empty stomach
Duck)			• Litter Management	<ul> <li>Use dry litter material in the shed;</li> <li>if there is moisture, apply lime powder @ 1kg per 100 ft² area</li> <li>Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately</li> </ul>
Sheep/ Goat	All ag	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		ge groups ots the young	Vaccination	<ul> <li>Vaccinate against B.Q., F.M.D. &amp; H.S.if not yet vaccinated.</li> <li>Cases of H.S. may be encountered during this period</li> <li>Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.</li> </ul>
			• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	<ul> <li>Mixture of mineral/ salts should be added in the feed.</li> <li>Avoid the cattle from chiting/biting by Flies</li> <li>Adopt tick control measures</li> </ul>
			Milk fever in Milch cow	• 70-100ml of a mixture of Ca+ and Phosphorus daily @ 5-7days.
	r cultiva	ation- Sowing c	f Bersum and Alfalfa should	be started now.
Fishery:	a.			
Type of Farming	Stag		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.	

