



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

**MANIPUR BULLETIN****24th 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 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 28 - 29 °C & minimum temp. 14 - 17 °C. Relative humidity may reach up to 100 % (max RH) & 45 % (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	• 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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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



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**MANIPUR BULLETIN****24th October, 2017**Chandel

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Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Chandel (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 26 - 28 °C & minimum temp. 14 - 15 °C. Relative humidity may reach up to 99 % (max RH) & 49 % (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		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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“Gramin Krishi Mausam Seva”



Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	• 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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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**MANIPUR BULLETIN****24th October, 2017****Churachandpur**

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Weather forecast for next five days of Churachandpur (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 27 - 28 °C & minimum temp. 16 - 17 °C. Relative humidity may reach up to 100 % (max RH) & 42 % (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		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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“Gramin Krishi Mausam Seva”



Animal Sciences			
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Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
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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.
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Fishery:			
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.
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**MANIPUR BULLETIN****24th October, 2017****Imphal East**

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Weather forecast for next five days of Imphal East (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 28 - 30 °C & minimum temp. 16 - 18 °C. Relative humidity may reach up to 100 % (max RH) & 40 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
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Fishery:			
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 should be done.			

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



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

**MANIPUR BULLETIN****24th October, 2017****Imphal West**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Imphal West (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 28 - 30 °C & minimum temp. 16 - 18 °C. Relative humidity may reach up to 100 % (max RH) & 46 % (min RH). The average wind speed may be 3-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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



Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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



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

**MANIPUR BULLETIN****24th 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 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Senapati (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to mainly cloudy sky and maximum temp. 26 °C & minimum temp. 14 °C. Relative humidity may reach up to 100 % (max RH) & 39 % (min RH). The average wind speed may be 4-5 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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



Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	• 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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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



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

**MANIPUR BULLETIN****24th 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 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 26 - 28 °C & minimum temp. 14 - 15 °C. Relative humidity may reach up to 100 % (max RH) & 45 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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



Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	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 save 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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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



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

**MANIPUR BULLETIN****24th 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 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Thoubal (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to partly cloudy sky and maximum temp. 28 - 29 °C & minimum temp. 14 - 17 °C. Relative humidity may reach up to 100 % (max RH) & 46 % (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• Vaccination	• Vaccinate against B.Q./ H.S. this time. • Lambs should be vaccinated against Enterotoxaemia.
		• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O₂) tab twice daily for 5 days.
		• 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	• 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/ fodder cultivation- Sowing of Bersum and Alfalfa should be started now.			
Fishery:			
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 should be done.			

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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****24th 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 25th to 29th October, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (20th to 23rd October, 2017)

Observed partly cloudy to overcast sky and **98.9 mm** rainfall was recorded during past four days. Maximum temperature range of 24.4 to 27.3 °C and minimum temperature range of 19.1 to 21.4 °C with mean relative humidity 95.5 % max and 80.3 % min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (25th to 29th October, 2017)

Likely to have no rains at isolated places upto Sunday with mainly clear to mainly cloudy sky and maximum temp. 26 °C & minimum temp. 14 °C. Relative humidity may reach up to 99 % (max RH) & 48 % (min RH). The average wind speed may be 3-4 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Maturity to harvesting		Drain out water accumulated due to rains in crop field at earliest possible. 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. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed/ Field Pea/ Lentil	Seed collection and sowing		Procure quality seeds from reliable source. In foot-hills and upland area 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 RC-seed bins 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. 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 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
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. 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 m ² 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 soil borne diseases.
Ginger/ Turmeric	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.



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Animal Sciences			
Provide clean drinking water to birds and animals after rains. Also proper arrangements must be made in the sheds to keep them warm as the temperature is decreasing.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ / Duck)	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
		• Litter Management	• Use dry litter material in the shed; • if there is moisture, apply lime powder @ 1kg per 100 ft ² area • Litter may be come wet due to sudden and unexpected rain during this time, wet litter must be replaced immediately
Sheep/ Goat	All age groups	• 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 ones	• Coccidial infection (Diarrhea)	• Ofloxacin/ Ornidazole (O ₂) tab twice daily for 5 days.
		• 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	• 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.
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