

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Bishnupur****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/hr.

Weather forecast for next five days of Bishnupur (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 25-28 °C & minimum temp. 17-18 °C. Relative humidity may reach upto 99 % (max) and 61 % (min). The average wind speed may be 0-4 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Chandel****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/hr.

Weather forecast for next five days of Chandel (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 25-29 °C & minimum temp. 17-18 °C. Relative humidity may reach upto 96 % (max) and 63 % (min). The average wind speed may be 2-3 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Churachandpur****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/ hr.

Weather forecast for next five days of Churachandpur (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 25-29 °C & minimum temp. 18-19 °C. Relative humidity may reach upto 98 % (max) and 53 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Imphal East****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/ hr.

Weather forecast for next five days of Imphal East (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 26-28 °C & minimum temp. 17-18 °C. Relative humidity may reach upto 95 % (max) and 57 % (min). The average wind speed may be 3-5 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN****District: Imphal West****Date of issue: 30th October, 2018****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

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Weather forecast for next five days of Imphal West (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 27-29 °C & minimum temp. 18-19 °C. Relative humidity may reach upto 94 % (max) and 44 % (min). The average wind speed may be 4 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
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Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
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Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018*District: Senapati***Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 – 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 – 2.0 km/ hr.

Weather forecast for next five days of Senapati (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 24 °C & minimum temp. 14 °C. Relative humidity may reach upto 97 % (max) and 59 % (min). The average wind speed may be 2-3 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @ 20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Tamenglong****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/hr.

Weather forecast for next five days of Tamenglong (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 24 °C & minimum temp. 14 °C. Relative humidity may reach upto 95 % (max) and 51 % (min). The average wind speed may be 3-4 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety – M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with <i>Rhizobium leguminosarum</i> or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray <i>Deltamethrin</i> 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with <i>T. harzianum</i> . Check that the new sprouts/ young plants in nursery beds are not damaged.
Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Fisheries			
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.		

(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018**District: Thoubal****Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/hr.

Weather forecast for next five days of Thoubal (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 25-29 °C & minimum temp. 17-18 °C. Relative humidity may reach upto 98 % (max) and 65 % (min). The average wind speed may be 2-3 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Garden pea	Sowing/ Land preparation		-Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing, treat seeds with Rhizobium leguminosarum or follow soil inoculation with phosphor-bacterium. Maintain the depth of sowing to 2-3cm. Avoid shade area while sowing.
Potato	Planting to vegetative		- Planting of potato may be done at a spacing of 60cm x 15-20cm. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 g/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting.
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.
Onion	Nursery raising		- Apply Sixer during final land preparation of nursery plot as preventive measures against soil borne diseases. For 25 sq m area we need ½ kg seeds. Treat seeds with T. harzianum. Check that the new sprouts/ young plants in nursery beds are not damaged.

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
			Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.

Fisheries	
Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.

(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 30th October, 2018*District: Ukhrul***Significant past weather for the preceding bi-weekly of Imphal West (26 to 29 October, 2018)**

Observed no rainfall with mainly clear to partly cloudy sky. Maximum temperature recorded ranged from 21.1 - 27.3 °C and minimum of 14.4 - 17.6 °C with mean relative humidity 88.3 % max and 72.3 % min was recorded in the past four days & average wind speed was 1.6 - 2.0 km/hr.

Weather forecast for next five days of Ukhrul (31 Oct to 4 Nov, 2018)

Likely to have light rains on Wednesday then no rains thereafter and mainly clear to partly cloudy sky with maximum temp. 24 °C & minimum temp. 14 °C. Relative humidity may reach upto 95 % (max) and 61 % (min). The average wind speed may be 2-3 km/hr.

General Advisories:

- * Likely to have no rains from 1st November, hence mature crops may be harvested, threshed and sundried to optimum moisture content of grain for storage.
- * Planting of disease free quality seed material procured from reliable sources may be done with the available soil moisture. Treat seeds before sowing.
- * Mulching may be done wherever possible to retain soil moisture for longer period.
- * Light watering to the nursery may be done if fog or frost is observed during morning hours.

Field Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvest and post harvest stage		- Harvest mature crops. - Stacking of the harvested panicles for 5-7 days and turning upside down the heap of panicles can be done. After proper threshing and cleaning, sundry before storage.
Rapeseed/ mustard	Sowing		- After harvesting rice, zero tillage rape seed may be sown when the field is slightly in muddy condition. Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. Recommended variety - M-27. Seed rate is 10-12 kg/ ha. Treat seeds with Mancozeb @ 2g/kg seed for the control of white rust and Downey Mildew at seedling stage.
Field pea	Land preparation to sowing		- Land preparation may be done. Sowing may be done at a spacing of 30cm X 10-15cm. Seed rate is 75 kg/ hectare.
Seeds storage	Post-harvest management		- For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. - Clean godowns and spray with 1% Malathion on the walls before storage; also ensure that it is well ventilated. Avoid fungal growth and pest rodent in store.

Horticulture Crops

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cole crops	Vegetative (Mid-season var.) and nursery (late var.)		- Apply 50 kg urea in two splits dose after 20-40 days of transplanting for mid-season crops in vegetative stage. - Monitor for insect pest infestation in nursery plot.
Citrus	Bearing trees	Trunk borer	- Kill the trunk borer grubs. Clean the bore holes of the infested trunk with iron wire. Insert a cotton swab soaked in Dichlorovos or inject 5 ml of Dichlorovos solution (2ml/lit of water) and paste the bore hole with mud. - Apply lime (2-2.5 kg/tree) in a circular trench around the trunk in alternate year.
Brinjal	Fruiting to harvesting		For fruit and shoot borer of brinjal, spray Deltamethrin 12 % @ 7ml /15 litre of water after the harvesting mature fruits.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrimazole @ 1g in 1 litre of drinking water for 3 days.
Sheep/ Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
		Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Pig	All age groups except the young ones	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight. Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
Cattle	All age groups excepts the young ones	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Nilzan/ Tolzan-F @ 20-30ml for 100 kg body weight.

Fisheries

Carp culture	- Maintain water level at a depth of 1.0m to 1.5m. Ensure good quality water in fish culture ponds by liming. - Depending upon the availability of water, partial harvesting of fishes may be done.
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(I. Meghachandra Singh)
Nodal Officer, GKMS