

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Ukhrul

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Ukhrul (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 26-27 °C & mini. temp. 13-14 °C. Relative humidity may reach upto 92 % (max) & 47 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrifos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizazole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019*District: Bishnupur***Past weather for the of Imphal West (1st to 4th November, 2019):**

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Bishnupur (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 29-30 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 98 % (max) & 53 % (min). The average wind speed may be 2-5 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	- Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Chandel

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Chandel (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 27-28 °C & mini. temp. 14-15 °C. Relative humidity may reach upto 96 % (max) & 54 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
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Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
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Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
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		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019*District: Churachandpur***Past weather for the of Imphal West (1st to 4th November, 2019):**

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Weather forecast for Churachandpur (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 28-29 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 98 % (max) & 46 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
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Field Crops			
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Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
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Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @ 2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



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Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrinazole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @ 15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @ 60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Imphal East

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Imphal East (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 28-29 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 92 % (max) & 49 % (min). The average wind speed may be 5-6 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrifos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	- Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
 Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Imphal West

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Imphal West (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 28-29 °C & mini. temp. 15-16 °C. Relative humidity may reach upto 92 % (max) & 49 % (min). The average wind speed may be 4-5 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	- Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Senapati

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Senapati (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 25-26 °C & mini. temp. 13-14 °C. Relative humidity may reach upto 94 % (max) & 49 % (min). The average wind speed may be 4-5 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrphos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	- Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019

District: Tamenglong

Past weather for the of Imphal West (1st to 4th November, 2019):

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Tamenglong (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 26-27 °C & mini. temp. 13-14 °C. Relative humidity may reach upto 95 % (max) & 46 % (min). The average wind speed may be 4 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrifos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible age groups	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
		Deworming	Use Ventrizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	<ul style="list-style-type: none"> - Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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(I. Meghachandra Singh)
Nodal Officer, GKMS

**MANIPUR AGROMET ADVISORY BULLETIN**Date of issue: 5th November, 2019*District: Thoubal***Past weather for the of Imphal West (1st to 4th November, 2019):**

No rainfall was observed during the past four days. The skies remained mainly clear to partly cloudy but mainly cloudy during afternoon hours of 3rd & 4th Nov. Maximum temperature ranged from 29.2-29.7 °C and minimum of 15.7–18.6 °C. Mean relative humidity of 92.0 % max & 56.5 % min was recorded in the past four days & average wind speed was 1.3–2.3 km/ hr.

Weather forecast for Thoubal (6th to 10th Nov, 2019):

Likely to have light rains from Saturday. The sky will remain mainly clear to partly cloudy upto 8th then mainly cloudy thereafter with max. temp. 29-30 °C & mini. temp. 16-17 °C. Relative humidity may reach upto 97 % (max) & 57 % (min). The average wind speed may be 3-4 km/hr.

General Advisory:

1. Monitor insect pest in the crop field regularly. Mulching may be done to conserve soil moisture.
2. Use water economically to ensure its availability in coming months.
3. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in RC Seed Bin.
4. Farmers are advised to treat the soil for cut worm before nursery sowing of vegetables. Drench the nursery bed with 2.5 ml Cloropyrifos per litre solution. For the control of damping off disease in vegetable crop mix thoroughly with 2-3 g Carbendazim per kg seed.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Harvesting and post-harvest		<ul style="list-style-type: none"> - Harvest rice before rains from Saturday if 80 % of the spikelet has turned golden color. - For harvested panicles sundry when sun shines for 5-7 days. Turning the heap of panicles while drying can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Rapeseed	Seed collection and Sowing		<ul style="list-style-type: none"> - After harvesting rice, zero tillage rapeseed may be sown at 30 cm row spacing 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 and dry for 30 mins in the shade then sow for the control of white rust and downey mildew at seedling stage.
Field pea	Land preparation to Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Land preparation may be done after harvesting rice/ soybean/ groundnut/ rice bean. - Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil	Sowing		<ul style="list-style-type: none"> - Procure disease free good variety of crop from a reliable source and treat with Thiram + Carbendazim (1:1) @2.5g/ kg seeds before sowing. - Minimum tillage is best for sowing lentil in Manipur. Apply 4-5 t of FYM/ ha at least 15 days before sowing. Also apply 43.5kg Urea, 250kg SSP and 67 kg MOP per hectare as basal dose. - Seed rate is 50-60 kg of bold seeds or 30-40 kg of small seeds/ ha. - Spacing may be 30x10 cm if planted in rows.
Potato	Land preparation to planting		<ul style="list-style-type: none"> - During final stages of land preparation for planting potato apply 20-30tons of well decomposed FYM per hectare at least two weeks before planting. - Select healthy and pure seeds of high yielding variety, free from insect pest. Treat seeds with 5% Dithane M-45 to 10 min before planting. 30 to 50g tuber seeds may be planted at row to row spacing of 55-60cm and plant to plant spacing of 20-25 cm. Seed rate is 20-25 quintals/ hectare.
Millet/ Blackgram	Pod formation to maturity		<ul style="list-style-type: none"> - Weeding may be done to keep the plot clean to avoid insect pest infestation.
Seed storage	Post-harvest Management		<ul style="list-style-type: none"> - 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.
Horticulture Crops			



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Ginger/ Turmeric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Spinach beet (Palak)	Sowing to vegetative		- Well drained soil is best for growing spinach beet. - Avoid damping off by adding Captan 50WP in the soil of bed. - Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required. - Keep soil moist during vegetative stage. Monitor insect pest regularly.
Onion	Nursery raising		- Apply Captan 50 WP @ 2g/ litre water during final land preparation as preventive measures against soil borne diseases. - For 25 sq. m area we need ½ kg seeds. - Check that the new sprouts/ young plants in nursery beds are not damaged. 45-60 days old seedlings may be transplanted. - Keep soil moist during vegetative stage.
Broad bean/ Pea/ French bean	Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Cabbage	Transplanting (26-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) Late variety		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.

Animal Sciences

Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
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Pig	Above 3 months of age	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
		Skin disease	Sprayer of Anti-<i>Psoroptic</i> may be used.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3 months of age	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated. These cases may be encountered during this period. If observed, immediate treatment using appropriate drugs with the help of Consultant must be advocated to infected animals.
		Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
		Deworming	De-worm with Albomac suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Management	Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves.
Goat	All age groups except three months or below	Vaccination	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
		Shearing for wool	Sheep should be sheared during this month.

Fishery:

Carp culture	Grow-out	Fish	- Fish harvesting may be done. - Ponds water depth should be maintained at 1.0-1.5m. - Feeds should be provided 1-2 times a day @ 3 % body weight per day. - Well balanced feed fortified with vitamins and minerals should be provided. - Maintain good quality of pond water. - To stock fish for next year above practices may be done in small scale.
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