



MANIPUR AGROMET ADVISORY BULLETIN

District: Ukhrul

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

Weather forecast for Ukhrul (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-27 $^{\circ}\text{C}$ & mini. temp. 16-17 $^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max) & 61 % (min). The average wind speed may be 4 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		 Drain it out completely 10 days before harvesting. Harvest rice if 80 % of the spikelet has turned yellow after rains. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post- harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Onion	Nursery to vegetative		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
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.
Mango	Appearance of new flush in bearing trees		At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the soil 1 ½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.



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



"Gramin Krishi Mausam Seva"

Animal Sciences			
Name of bird/ animal	Stage	Disease/ Management	Agro-meteorological advisories
Poultry (Chicken/	All	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible		glucose.
	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
	months of	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the
	age		animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age		Calves should not be allowed to drink milk from mothers if affected by
			FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
	except three	Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	months or below		vitamins like Livozyme @ 50ml twice daily.
Fishery:			
Carp culture Gr	ow-out	Fish -	Fish harvesting can be started.
		-	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.







MANIPUR AGROMET ADVISORY BULLETIN

District: Bishnupur

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

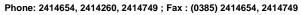
Weather forecast for Bishnupur (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 29-30 $^{\rm o}$ C & mini. temp. 19-20 $^{\rm o}$ C. Relative humidity may reach upto 98 % (max) & 69 % (min). The average wind speed may be 2-4 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		 Drain it out completely 10 days before harvesting. Harvest rice if 80 % of the spikelet has turned yellow after rains. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Potato	Land preparation to planting		 - 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop Tree bean	Stage Trees above 7yrs	Pest and disease	Agro-meteorological advisories Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Tree near	age/ Bearing plants		Tappis (organi DAI + 10g MOI + 20g Carooturan 30) per piant after fams.
Coriander	Sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix





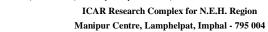




"Gramin Krishi Mausam Seva"

				RAR
				thoroughly to improve soil fertility.
				- Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	_			Well drained soil is best for growing spinach beet.Avoid damping off by adding Captan 50WP in the soil of bed.
				Spacing may be maintained at 10cm x 20-25cm apart.
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery to			- Prepare raised nursery beds, after sowing it must be covered with paddy
	vegetative			straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
Broad bean/ Pea	/ Vegetative			Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean	, egetati ve			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Mango	Appearance	of new		At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the
11111190	flush in bear			soil 1 ½ feet away from the trunk or plant growth promoting rhizobium
	trees	5		bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung
				+ 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of
				live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the
				formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences				
Name of bird/ anima	Stage	Disease	e/ Management	Agro-meteorological advisories
Poultry (Chicken/	All	Coccidio	sis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible			glucose.
	age groups	Dewormi		Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Dewormi		Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
	months of age	Ecto-para	asite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide
				ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick		Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age			Calves should not be allowed to drink milk from mothers if affected by
				FMD, it affects heart and cause even death of the calves.
		Deworming		De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups	Dewormi		- Give Ranizole suspension @ 3ml/ 10 kg body weight.
	except three	Fasciolio	sis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	months or below			vitamins like Livozyme @ 50ml twice daily.
Fishery:				
Carp culture (Grow-out	Fish		Fish harvesting can be started.
				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.









MANIPUR AGROMET ADVISORY BULLETIN

District: Chandel

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5-30.4 °C and minimum of 17.6-19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0-6.2 km/hr.

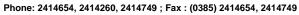
Weather forecast for Chandel (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 29-30 $^{\circ}$ C & mini. temp. 18-19 $^{\circ}$ C. Relative humidity may reach upto 97 % (max) & 61 % (min). The average wind speed may be 3-5 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post- harvest		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet has turned yellow after rains. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Potato	Land preparation to planting		 - 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Coriander	Sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



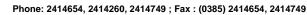






"Gramin Krishi Mausam Seva"

			ICAR
			thoroughly to improve soil fertility.
			- Seed rate is 100g seeds for 100 sq. m.
Spinach beet	Sowing		- Well drained soil is best for growing spinach beet.
(Palak)			- Avoid damping off by adding Captan 50WP in the soil of bed.
			Spacing may be maintained at 10cm x 20-25cm apart.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose
			is required.
Onion	Nursery to		- Prepare raised nursery beds, after sowing it must be covered with paddy
	vegetative		straw or gunny bags. These must again be removed after 5-7 days as soon
			as the seeds germinate.
Broad bean/ Pea	/ Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean			sowing. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
Mango	Appearance	of new	At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the
	flush in bear	ing	soil 1 ½ feet away from the trunk or plant growth promoting rhizobium
	trees		bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung
			+ 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of
			live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the
			formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences			
Name of bird/ animal		Disease/ Managemen	
Poultry (Chicken/	All	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible		glucose.
	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
	months of	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the
	age		animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age		Calves should not be allowed to drink milk from mothers if affected by
			FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
	except three months or	Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	below		vitamins like Livozyme @ 50ml twice daily.
Fishery:	below		
Carp culture (Grow-out	Fish	- Fish harvesting can be started.
			- 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.
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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Churachandpur

Past weather for the of Imphal West (18th to 21st October, 2019):

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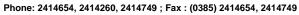
Weather forecast for Churachandpur (23rd to 27th October, 2019):

Date of issue: 22nd October, 2019

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 $^{\circ}$ C & mini. temp. 18-19 $^{\circ}$ C. Relative humidity may reach upto 99 % (max) & 72 % (min). The average wind speed may be 3-4 km/hr.

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- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
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- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
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Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Potato	Land preparation to planting		 - 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Coriander	Sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



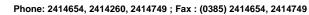


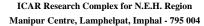


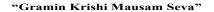


"Gramin Krishi Mausam Seva"

			ICAR
			thoroughly to improve soil fertility.
			- Seed rate is 100g seeds for 100 sq. m.
Spinach beet	Sowing		- Well drained soil is best for growing spinach beet.
(Palak)			- Avoid damping off by adding Captan 50WP in the soil of bed.
			Spacing may be maintained at 10cm x 20-25cm apart.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose
			is required.
Onion	Nursery to		- Prepare raised nursery beds, after sowing it must be covered with paddy
	vegetative		straw or gunny bags. These must again be removed after 5-7 days as soon
			as the seeds germinate.
Broad bean/ Pea	/ Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean			sowing. Treat seeds with Carbendazim @ 2g/kg seeds before sowing.
Mango	Appearance	of new	At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the
	flush in bear	ing	soil 1 ½ feet away from the trunk or plant growth promoting rhizobium
	trees		bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung
			+ 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of
			live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the
			formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences			
Name of bird/ animal		Disease/ Managemen	
Poultry (Chicken/	All	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible		glucose.
	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
	months of	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the
	age		animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age		Calves should not be allowed to drink milk from mothers if affected by
			FMD, it affects heart and cause even death of the calves.
		Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.
	except three months or	Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	below		vitamins like Livozyme @ 50ml twice daily.
Fishery:	below		
Carp culture (Grow-out	Fish	- Fish harvesting can be started.
			- 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.
			· · · · · · · · · · · · · · · · · · · ·









MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal East

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

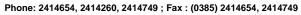
Weather forecast for Imphal East (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 $^{\circ}\text{C}$ & mini. temp. 18-19 $^{\circ}\text{C}$. Relative humidity may reach upto 95 % (max) & 62 % (min). The average wind speed may be 4-6 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post- harvest		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet has turned yellow after rains. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post- harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Potato	Land preparation to planting		 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Coriander	Sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



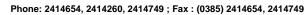




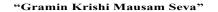


"Gramin Krishi Mausam Seva"

				KAR
				thoroughly to improve soil fertility.
				- Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Sowing			Well drained soil is best for growing spinach beet.Avoid damping off by adding Captan 50WP in the soil of bed.
· ·				Spacing may be maintained at 10cm x 20-25cm apart.
				- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose
				is required.
Onion	Nursery to			- Prepare raised nursery beds, after sowing it must be covered with paddy
	vegetative			straw or gunny bags. These must again be removed after 5-7 days as soon
				as the seeds germinate.
Broad bean/ Pea	/ Vegetative			Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean				sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Mango	Appearance			At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the
	flush in bear	ing		soil 1½ feet away from the trunk or plant growth promoting rhizobium
	trees			bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung
				+ 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of
				live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the
Animal Sciences				formulation three times a day. Use it for 1 acre with irrigation water.
Name of bird/ anima	ol Stage	Diseas	se/ Management	Agro-meteorological advisories
Poultry (Chicken/		Coccidio		Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible	Coccidiosis		glucose.
·	age groups	Deworm	ning	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Deworm		Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.
o o	months of	Ecto-par		Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the
	age	1		animal.
		Management		- Treat drinking water with potassium permanganate/ sanitizer. Provide
				ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle	Above 3	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick		Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age			Calves should not be allowed to drink milk from mothers if affected by
				FMD, it affects heart and cause even death of the calves.
		Deworm		De-worm with Nilzan/Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups	Deworm		- Give Ranizole suspension @ 3ml/ 10 kg body weight.
	except three	Fasciolio	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	months or below			vitamins like Livozyme @ 50ml twice daily.
Fishery:				
	Grow-out	Fish	-	Fish harvesting can be started.
				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.



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





MANIPUR AGROMET ADVISORY BULLETIN

District: Imphal West

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

Weather forecast for Imphal West (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 28-29 $^{\circ}\text{C}$ & mini. temp. 18-19 $^{\circ}\text{C}$. Relative humidity may reach upto 98 % (max) & 56 % (min). The average wind speed may be 4-9 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet has turned yellow after rains. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Potato	Land preparation to planting		 - 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Coriander	Sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix



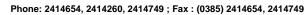


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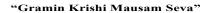


"Gramin Krishi Mausam Seva"

				ICAR
				thoroughly to improve soil fertility Seed rate is 100g seeds for 100 sq. m.
Spinach beet (Palak)	Sowing	3		 Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 sq m. If broadcasting is done, double the dose is required.
Onion	Nursery to vegetative			- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
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.
Mango	Appearance flush in bear trees			At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the soil 1½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences				
Name of bird/ animal	Stage	Disease/ Manageme	ent	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All susceptible	Coccidiosis		Give Coccimar @ 2g/litre of drinking water for 5-7 days along with glucose.
	age groups	Deworming		Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3 months of age	Deworming Ecto-parasite Management		Give Morantel citrate tablet (Banminth) @15mg/ kg body weight. Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal. - Treat drinking water with potassium permanganate/ sanitizer. Provide
Cattle	Above 3	Vaccination		ample ventilation in the shed/ dry bedding. Avoid dampness in sheds. Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
Catile	months of age	Tick Deworming		Use Butox liquid @ 2ml/ litre water twice a week while brushing animals. Calves should not be allowed to drink milk from mothers if affected by FMD, it affects heart and cause even death of the calves. De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	All age groups except three months or below	Deworming Fascioliosis		- Give Ranizole suspension @ 3ml/ 10 kg body weight. Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
Fishery:				
	row-out	Fish	- Po - Fe - W - M	sh harvesting can be started. Onds water depth should be maintained at 1.0-1.5m. Deeds should be provided 1-2 times a day @ 3 % body weight per day. Seell balanced feed fortified with vitamins and minerals should be provided. Saintain good quality of pond water. Do stock fish for next year above practices may be done in small scale.



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





MANIPUR AGROMET ADVISORY BULLETIN

District: Senapati

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/ hr.

Weather forecast for Senapati (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 25-26 $^{\circ}$ C & mini. temp. 15-16 $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 76 % (min). The average wind speed may be 4 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post-harvest		 Drain it out completely 10 days before harvesting. Harvest rice if 80 % of the spikelet has turned yellow after rains. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post- harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Onion	Nursery to vegetative		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
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.
Mango	Appearance of new flush in bearing trees		At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the soil 1½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.



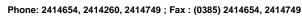
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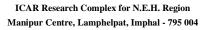
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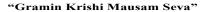


"Gramin Krishi Mausam Seva"

Animal Sciences				
Name of bird/ anima	Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken/	All	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with	
Duck)	susceptible		glucose.	
	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.	
	months of age	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide	
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.	
	age		Calves should not be allowed to drink milk from mothers if affected by	
			FMD, it affects heart and cause even death of the calves.	
		Deworming	De-worm with Nilzan/Tolzan-F @20-30ml for 100 kg body weight.	
Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.	
	except three months or	Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with	
	below		vitamins like Livozyme @ 50ml twice daily.	
Fishery:				
Carp culture (Grow-out	- - -	Fish harvesting can be started. 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.	









MANIPUR AGROMET ADVISORY BULLETIN

District: Tamenglong

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

Weather forecast for Tamenglong (23rd to 27th October, 2019):

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 26-27 $^{\circ}\text{C}$ & mini. temp. 16-17 $^{\circ}\text{C}$. Relative humidity may reach upto 99 % (max) & 77 % (min). The average wind speed may be 4-6 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Kharif Rice	Grain maturity to harvesting and post- harvest		 - Drain it out completely 10 days before harvesting. - Harvest rice if 80 % of the spikelet has turned yellow after rains. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. - Harvested crop must be well threshed. Clean and sundry seeds properly before storage.
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains.
Millet/ Blackgram	Vegetative	Hairy caterpillars	 - Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) on dry days. - Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest.
Seed 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.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.
Onion	Nursery to vegetative		- Prepare raised nursery beds, after sowing it must be covered with paddy straw or gunny bags. These must again be removed after 5-7 days as soon as the seeds germinate.
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.
Mango	Appearance of new flush in bearing trees		At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the soil 1½ feet away from the trunk or plant growth promoting rhizobium bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung + 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the formulation three times a day. Use it for 1 acre with irrigation water.



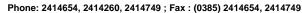
Phone: 2414654, 2414260, 2414749 ; Fax : (0385) 2414654, 2414749

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



"Gramin Krishi Mausam Seva"

Animal Sciences				
Name of bird/ anima	Stage	Disease/ Management	Agro-meteorological advisories	
Poultry (Chicken/	All	Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with	
Duck)	susceptible		glucose.	
	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.	
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/ kg body weight.	
	months of age	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the animal.	
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide	
			ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.	
Cattle	Above 3	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.	
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.	
	age		Calves should not be allowed to drink milk from mothers if affected by	
			FMD, it affects heart and cause even death of the calves.	
		Deworming	De-worm with Nilzan/Tolzan-F @20-30ml for 100 kg body weight.	
Goat	All age groups	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight.	
	except three months or	Fascioliosis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with	
	below		vitamins like Livozyme @ 50ml twice daily.	
Fishery:				
Carp culture (Grow-out	- - -	Fish harvesting can be started. 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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ICAR Research Complex for N.E.H. Region Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR AGROMET ADVISORY BULLETIN

District: Thoubal

Past weather for the of Imphal West (18th to 21st October, 2019):

6.6 mm rainfall was observed during the past four days. The skies remained foggy during morning hours and afternoon hours were clear. Maximum temperature ranged from 28.5–30.4 °C and minimum of 17.6–19.1 °C. Mean relative humidity of 95.75 % max & 61.25 % min was recorded in the past four days & average wind speed was 1.0–6.2 km/hr.

Weather forecast for Thoubal (23rd to 27th October, 2019):

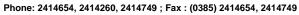
E-mail: agromet_mnp@yahoo.co.uk

Likely to have light rains upto Sunday. The sky will remain partly cloudy to mainly cloudy with max. temp. 29-30 $^{\circ}$ C & mini. temp. 19-20 $^{\circ}$ C. Relative humidity may reach upto 98 % (max) & 67 % (min). The average wind speed may be 3-6 km/hr.

Date of issue: 22nd October, 2019

- 1. Avoid insect pest sprays and inter-culture operations during rainy days.
- 2. Monitor insect pest in the crop field regularly to reduce loss. Provisions may be taken up to conserve soil moisture.
- 3. Use water economically to ensure its availability in coming months.
- 4. Harvest mature crops before rains. Clean and sundry seeds properly before storage. Store seeds in Seed Bin.

Field Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Kharif Rice	Grain maturity to harvesting and post- harvest		 Drain it out completely 10 days before harvesting. Harvest rice if 80 % of the spikelet has turned yellow after rains. Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing. Harvested crop must be well threshed. Clean and sundry seeds properly before storage. 	
Soybean/ Rice Bean	Pod maturity to harvesting post- harvest		Harvest mature crop after rains, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed in Seed Bin.	
Groundnut	Maturity to harvesting post-harvest		 - Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears after rains. - Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds. 	
Rapeseed	Seed collection and sowing		- Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.	
Field pea	Seed collection and land preparation		 - Procure disease free good variety of crop from a reliable source and treat with Carbendazim @2g/ kg seeds before sowing. - Prepare land for sowing field pea after rains. 	
Potato	Land preparation to planting		 - 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	Vegetative	Hairy caterpillars	 Dichlorovos 76 EC 0.05% (0.6ml/lit of water) on dry days. Weeding may be done at 30 days after sowing for proper utilization of nutrients and moisture by the crop and avoid insect pest. 	
Seed 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.	
Horticulture Crops				
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories	
Tree bean	Trees above 7yrs age/ Bearing plants		Apply (60gm DAP + 10g MOP + 20g Carbofuran 3G) per plant after rains.	
Coriander	Sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix 	









"Gramin Krishi Mausam Seva"

			ICAR
			thoroughly to improve soil fertility.
			- Seed rate is 100g seeds for 100 sq. m.
Spinach beet Sowing			- Well drained soil is best for growing spinach beet.
(Palak)			- Avoid damping off by adding Captan 50WP in the soil of bed.
			Spacing may be maintained at 10cm x 20-25cm apart.
			- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose
			is required.
Onion	Nursery to		- Prepare raised nursery beds, after sowing it must be covered with paddy
	vegetative		straw or gunny bags. These must again be removed after 5-7 days as soon
			as the seeds germinate.
Broad bean/Pea	/ Vegetative		Prepare land for sowing after rains. Procure healthy disease free seeds for
French bean			sowing. Treat seeds with Carbendazim @ 2g/ kg seeds before sowing.
Mango	Appearance		At this stage after rains, apply 50g Urea + 100g DAP + 40g MOP in the
	flush in bear	ing	soil 1 ½ feet away from the trunk or plant growth promoting rhizobium
	trees		bacteria (PGPR) or organic formulation like Jivamrut (Mix 10 kg cowdung
			+ 10 litres cow urine + 2 kg jiggery + 2 kg of pulse grain flour + 1kg of
			live forest soil in 200 litres of water. Ferment for 5-7 days. Stir the
			formulation three times a day. Use it for 1 acre with irrigation water.
Animal Sciences Name of bird/ anima	1 0	D: /3#	
		Disease/ Managemen	
Poultry (Chicken/		Coccidiosis	Give Coccimar @ 2g/litre of drinking water for 5-7 days along with
Duck)	susceptible		glucose.
TO .	age groups	Deworming	Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.
Pig	Above 3	Deworming	Give Morantel citrate tablet (Banminth) @15mg/kg body weight.
	months of	Ecto-parasite	Use Butox liquid @ 2 ml/ lit of water twice a week while brushing the
	age	Management	animal.
		Management	- Treat drinking water with potassium permanganate/ sanitizer. Provide
Cattle	Above 3	Vassination	ample ventilation in the shed/ dry bedding. Avoid dampness in sheds.
Cattle		Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	months of	Tick	Use Butox liquid @ 2ml/ litre water twice a week while brushing animals.
	age		Calves should not be allowed to drink milk from mothers if affected by
		Di	FMD, it affects heart and cause even death of the calves.
Coat	All age groups	Deworming	De-worm with Nilzan/ Tolzan-F @20-30ml for 100 kg body weight.
Goat	except three	Deworming Fascioliosis	- Give Ranizole suspension @ 3ml/ 10 kg body weight. Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with
	months or	rascioliosis	vitamins like Livozyme @ 50ml twice daily.
	below		vitainins like Livozyine & 30ini twice daily.
Fishery:			
	Grow-out	Fish	- Fish harvesting can be started.
			- 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.