

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Imphal East

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th November, 2017)

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Imphal East (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $26-27\,^{\circ}$ C & minimum temp. $13\text{-}16\,^{\circ}$ C and relative humidity may reach up to 88% (max RH) & $73\,\%$ (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post		 Harvest mature crops after rains. Harvested panicles may be stacked for 5-7 days and turned regularly for bette
Kite	harvesting		threshing.
			- After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
			slightly wet.
Rapeseed/ Mustard	Seed collection and sowing		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing. - Recommended variety – M-27. Seed rate is 10-12 kg/ ha.
	and so wing		- 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.
	Seed collection		Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	and sowing		spacing of 30cm X 10-15cm.
	Č		Recommended variety - Rachana. Seed rate is 75 kg/ hectare. Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relained.
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
(late variety)	and sowing		then sow it.
			For seed purpose dry, clean and store the seeds in RC-seed bins after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight o
Seeds storage	management		charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops		10 1 11	
			specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early vegetative		transplanting.
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
Caumower	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 m ² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m ² .
			I improve soil tertility. Seed rate is 100g seeds for 100 m ²
G : 1 (D : 1)	Landana		
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
				also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		ot the young	• De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
	Alla	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle		ots the young	v accination	Cases of H.S. may be encountered during this period
	ones	oto tire young		Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
				for 100 kg body weight.
			• Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	tion: O	at/ Chinese cabb	page/ Berseum may be grown	
Fishery:	0		<u> </u>	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
			1.1911	
				pand Stocking ratio may be maintained at 400% of surface feeder 200% solumn
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Imphal West

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Weather forecast for next five days of Imphal West (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. 25 - 27 $^{\circ}$ C & minimum temp. 13-16 $^{\circ}$ C and relative humidity may reach up to 90% (max RH) & 67 % (min RH). The average wind speed may be 2-5 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 Harvest mature crops after rains. Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing. After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
				also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	 Management 	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	 Vaccination 	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All a	ge groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
		ot the young	• De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	Sprayer of Anti- <i>Psoroptic</i> may be used
	Alla	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle		ots the young	v accination	Cases of H.S. may be encountered during this period
	ones	oto tire young		Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
				for 100 kg body weight.
			• Care & Management	Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	tion: O	at/ Chinese cabb	page/ Berseum may be grown	
Fishery:	0		<u> </u>	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
culture	grov	v-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
			1.1911	
				pand Stocking ratio may be maintained at 400% of surface feeder 200% solumn
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Bishnupur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

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Weather forecast for next five days of Bishnupur (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $25-26\,^{\circ}$ C & minimum temp. $16\text{-}17\,^{\circ}$ C and relative humidity may reach up to 95% (max RH) & 80 % (min RH). The average wind speed may be 0-2 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest mature crops after rains. - Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relation in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is



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Onion	Nursery raisir		ıg	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
C'/T	• .	Rhizome	Rhizome rot	also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	ieric	formation		- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		TOTTILATION	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry	All a	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//				hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
				Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	excep ones	ot the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
	Offics		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
		ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
]	Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
• Fodder cultiva	ation: C	at/ Chinese cabl	bage/ Berseum may be grown	
Fishery:				
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
culture	grov	w-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harves	ting of fish sho	ould be done.	

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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Weather forecast for next five days of Chandel (18th to 22nd November, 2017)

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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest mature crops after rains. - Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relation in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m². If broadcasting is done, double the dose is



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Onion		Nursery raisin	g	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
		•		preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato	Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum
		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
				also advisible. Sow seed at about 3 inch depth.
Ginger/Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es			
Name of bird/		Stage	Disease and Management	Agro-meteorological advisories
animal		8	9	
Poultry	All ag	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with
(Chicken//			C	hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	All ag	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
-		, , ,		Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	All ag	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
8		t the young	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	All ag	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ts the young		Cases of H.S. may be encountered during this period
	ones	•		• Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
				for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed.
			care ee management	Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
Fodder cultiva	ation: O	at/ Chinese cabb	page/ Berseum may be grown	
Fisherv:			Deliberin may be grown	•
Type of	Stag	e.	Management	Agro-metrological advisories
Farming	Stag	,-	1.1mingement	11810 Most of Ogicial and 1001100
Carp	Nurs	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture		/-out		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
	8.0			mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
			1 1511	
			11311	pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
			11511	

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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17th November, 2017

Churachandpur

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14^{th} to 16^{th} November, 2017)

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Churachandpur (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $24-26\ ^{\circ}$ C & minimum temp. $13\text{-}15\ ^{\circ}$ C and relative humidity may reach up to 88% (max RH) & $61\ \%$ (min RH). The average wind speed may be 0-2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	- Stage		- Harvest mature crops after rains.
Rice	Harvesting to post harvesting		- Harvested panicles may be stacked for 5-7 days and turned regularly for bett threshing.
			- After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spramalathion 1% on the walls of stores.
Horticulture Crops			•
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 - Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is



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Onion		Nursery raisin	ig .	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.
Potato		Tuber seed treatment and sowing		- check that the new sprouts/ young plants in nursery beds are not damaged. Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Animal Science	es			
Name of bird/ animal		Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken// Duck)	All a	ge groups	Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	All a	ge groups	Vaccination	 Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			De-worming	• Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	_	ot the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
Cattle	All age groups excepts the young ones		Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
• Fodder cultiva Fishery:	tion: O	at/ Chinese cabl	bage/ Berseum may be grown	1.
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture	Carp Nurse		Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total l	harves	ting of fish sho	ould be done.	

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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MANIPUR BULLETIN

17th November, 2017

Senapati

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West $(14^{th}\ to\ 16^{th}\ November,\ 2017)$

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Senapati (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $22-23\,^{\circ}$ C & minimum temp. $12\text{-}13\,^{\circ}$ C and relative humidity may reach up to 92% (max RH) & 69 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
realite of the crop	Stage	1 est and disease	- Harvest mature crops after rains.
Rice	Harvesting to post		- Harvested panicles may be stacked for 5-7 days and turned regularly for better
Micc	harvesting		threshing.
	nar vesting		- After proper threshing, grains must be sundried well before storage. Dry grains/
			seeds to 12-14% moisture if mechanical thresher is used.
			- Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is
			slightly wet.
	Seed collection		- Apply 65kg Urea + 188kg SSP + 50kg MOP as basal dose before sowing.
Rapeseed/ Mustard	and 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.
			Land preparation may be done for sowing field pea. Sowing may be done at a
Field Pea	Seed collection		spacing of 30cm X 10-15cm.
	and sowing		Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
			Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay
Lentil/ Blackgram	Seed collection		crop in the crop fields where the soil moisture is optimum for seed germination.
(late variety)	and sowing		Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade
•			then sow it.
			For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying
	Post harvest		of seeds along with charcoal at 80:20. Check for moisture content or weight of
Seeds storage	management		charcoal and dry if required.
			For grains, store grains in well ventilated godowns after drying proper. Spray
			Malathion 1% on the walls of stores.
Horticulture Crops			
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
J	(26-30 days old		followed by 46 kg Urea in two splits dose with an interval of 20-40 days of
	seedlings) to early		transplanting.
	vegetative		
Cauliflower	Transplanting		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose
	(25-30 days old		followed by 50 kg urea in two splits dose with an interval of 20-40 days after
	seedlings) to early		transplanting for main season crops.
	vegetative		
Coriander	Land preparation		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid
	& sowing		water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days
			before sowing to protect seeds from ant and other insects.
			- Apply 200-250 kg of FYM (@ ½ cart load) in 100 m ² and mix thoroughly to
			improve soil fertility. Seed rate is 100g seeds for 100 m ² .
Spinach (Palak)	Land preparation		- Well drained soil is best for growing spinach beet. Avoid damping off by adding
	& sowing		Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm
			apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is



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Onion		Nursery raisir	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as preventive measures against soil borne diseases. For 25 m² area we need ½ kg seeds.
Potato		Tuber seed treatment and sowing		- check that the new sprouts/ young plants in nursery beds are not damaged. Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is 25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing. Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
Ginger/ Turm	eric	Rhizome formation	Rhizome rot Soil nutrition	- Spray Carbendazim @2.5 g/lit of water for rhizome rot After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
4 . 10 .			management	soil to improve soil fertility.
Animal Science Name of bird/ animal	es	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken// Duck)	All aş	ge groups	Management	 Protect animals/ birds from sudden drop in temperature. Cover the wall with hessian cloth/ polythene sheet during night time. Litter must be stirred frequently and aired every day.
Sheep/ Goat	All aş	ge groups	Vaccination	 Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig	Alla	ge groups	Coccidial infection	Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	_	the young • De-worming		De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
				·
	A11 o	ge groups	Skin disease Vaccination	Sprayer of Anti- <i>Psoroptic</i> may be used Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ots the young	Vaccination	 Vaccinate against B.Q., F.M.D. & H.S.II not yet vaccinated. Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
			Deworming	 De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
			Care & Management	 Mixture of mineral/ salts should be added in the feed. Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grow	n.
Fishery:	T C:		3.6	
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp culture		series/ v-out	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder.
				Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total	harves	ting of fish sh	ould be done.	

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Tamenglong

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th November, 2017)

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $26-27\,^{\circ}$ C & minimum temp. $14\text{-}16\,^{\circ}$ C and relative humidity may reach up to 88% (max RH) & $73\,\%$ (min RH). The average wind speed may be 2-4 km/hr.

, ,			
Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Titulité de title ét ép	Sugs	1 obt till tilbotist	- Harvest mature crops after rains.
Rice	Harvesting to post harvesting		- Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing.
			- After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spra Malathion 1% on the walls of stores.
Horticulture Crops			
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative	2 650 4114 425 435	- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/ 100 m ² . If broadcasting is done, double the dose is



Manipur Centre, Lamphelpat, Imphal - 795 004





Onion		Nursery raisin	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Onion		ivursery raisii	¹ g	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum	
1 otato		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
				also advisible. Sow seed at about 3 inch depth.
Ginger/ Turmeric		Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Scienc	es			
Name of bird/		Stage	Disease and Management	Agro-meteorological advisories
animal Poultry	A11 a	ge groups	• Managament	Protect animals/ birds from sudden drop in temperature. Cover the wall with
Poultry (Chicken//	All d	se groups	Management	hessian cloth/ polythene sheet during night time.
Duck)				Litter must be stirred frequently and aired every day.
Sheep/ Goat	A11 20	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep/ Goat	Ana	ge groups	Vaccination	Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	ot the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
	ones		Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
	_	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	excep	ots the young		Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
				for 100 kg body weight.
			Care & Management	• Mixture of mineral/ salts should be added in the feed.
				Avoid the cattle from chiting/biting by Flies
				Adopt tick control measures
			Mastitis	• Adequate care must be ensured for prevention of mastitis for the milch animals.
	tion: O	at/ Chinese cab	bage/ Berseum may be grown	
Fishery:	C.		34	A 4121122
Type of Farming	Stag	ge	Management	Agro-metrological advisories
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	· I			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
	3-31			mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
				feeder and 30% bottom feeder.
* Partial/ total 1				Sampling of fish for growth, disease should be done regularly by netting.

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Thoubal

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th November, 2017)

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Thoubal (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $26-27\,^{\circ}$ C & minimum temp. $14\text{-}16\,^{\circ}$ C and relative humidity may reach up to 88% (max RH) & $68\,\%$ (min RH). The average wind speed may be 0-2 km/hr.

apart. Seed rate is 100-120g/100 m². If broadcasting is done, double the dose is

the past three days.			speed may be 0-2 km/m.
T: II G			
Field Crops	~:		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest mature crops after rains. - Harvested panicles may be stacked for 5-7 days and turned regularly for bette threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field i slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relactor in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shad then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Sprain Malathion 1% on the walls of stores.
Horticulture Crops	•		
Light watering during	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		 Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm



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* Partial/ total				
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column feeder and 30% bottom feeder. Sampling of fish for growth, disease should be done regularly by netting.
			Fish	crude protein fortified with vitamins and mineral. For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
culture	grov	v-out Feed		Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water. Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
Carp		series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 - 7.5.
Type of Farming	Stage		Management	Agro-metrological advisories
• Fodder cultiva Fishery:	шоп: О	at/ Uninese cab	bage/ Berseum may be grown	•
• Fodder oulti	tion: C	ot/Chinasa a-1-1	Mastitis	Adequate care must be ensured for prevention of mastitis for the milch animals.
			3.6	Adopt tick control measures
				Avoid the cattle from chiting/biting by Flies
			Care & Management	Mixture of mineral/ salts should be added in the feed.
			Deworming	De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
Cattle	ones	ts the young		 Cases of H.S. may be encountered during this period Immediate treatment using appropriate drugs with the help of Consultant must be advocated to safe the animals.
Cattle	_	ge groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
C	ones		Vaccination	Vaccinate against FMD.
	_	t the young	De-worming	De-worm with Albendazole @7.5 mg/kg b.wt.
Pig	_	ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O2) tab twice daily for 5 days.
			Shearing for wool	Sheep should be sheared during this month.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
•				• Lambs should be vaccinated against Enterotoxaemia.
Sheep/ Goat	All ag	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Duck)				hessian cloth/ polythene sheet during night time. • Litter must be stirred frequently and aired every day.
animal Poultry (Chicken//	All ag	ge groups	Management	Protect animals/ birds from sudden drop in temperature. Cover the wall with bassion alash/ polysthone sheet during night time.
Name of bird/		Stage	Disease and Management	Agro-meteorological advisories
Animal Scienc	es			
		Tormation	Soil nutrition management	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with soil to improve soil fertility.
Ginger/ Turm	eric	Rhizome formation	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is also advisible. Sow seed at about 3 inch depth.
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @ 2 gm/lit of water for 20 minutes and dry in shed before planting as preventive measure against soil borne diseases before sowing.
1 otato		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
Potato Tuber seed			- check that the new sprouts/ young plants in nursery beds are not damaged. Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum	
				preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

17th November, 2017

Ukhrul

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 18th to 22nd November, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (14th to 16th November, 2017)

Observed fair sky on the morning hours of 14^{th} and variable to mainly cloudy on other days of the past three days with **2.3 mm** rainfall. Maximum temperature range of 26.0 to 26.2 $^{\circ}$ C and minimum temperature range of 11.7 to 18.5 $^{\circ}$ C with mean relative humidity 92.3 % max and 64.3 % min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (18th to 22nd November, 2017)

Likely to have light rains up to Saturday then shallow to moderate fog on morning hours of the next three days. Sky may remain cloudy to mainly cloudy for next two days then clear thereafter. The maximum temp. $22-23\,^{\circ}$ C & minimum temp. $12\text{-}13\,^{\circ}$ C and relative humidity may reach up to 89% (max RH) & 69% (min RH). The average wind speed may be 2-3 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Harvesting to post harvesting		 - Harvest mature crops after rains. - Harvested panicles may be stacked for 5-7 days and turned regularly for better threshing. - After proper threshing, grains must be sundried well before storage. Dry grains/ seeds to 12-14% moisture if mechanical thresher is used.
Rapeseed/ Mustard	Seed collection and sowing		 Zero tillage rapeseed/ mustard may be sown at 30 cm row spacing when the field is slightly wet. 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	Seed collection and sowing		Land preparation may be done for sowing field pea. Sowing may be done at a spacing of 30cm X 10-15cm. Recommended variety - Rachana. Seed rate is 75 kg/ hectare.
Lentil/ Blackgram (late variety)	Seed collection and sowing		Lentil/ Blackgram (late var.) may be sown 15 days before harvesting rice as relay crop in the crop fields where the soil moisture is optimum for seed germination. Treat the seeds with Carbendazim @ 2g/kg seed and dry for 30 mins in the shade then sow it.
Seeds storage	Post harvest management		For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•		
	morning hours is advise	ed for the rabi crops (es	specially in early vegetative stages).
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cabbage	Transplanting (26-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose with an interval of 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings) to early vegetative		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose with an interval of 20-40 days after transplanting for main season crops.
Coriander	Land preparation & sowing		- Select area with bright sunshine rich in organic manure for preparing beds. Avoid water logging area. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects. - Apply 200-250 kg of FYM (@ ½ cart load) in 100 m² and mix thoroughly to improve soil fertility. Seed rate is 100g seeds for 100 m².
Spinach (Palak)	Land preparation & sowing		- Well drained soil is best for growing spinach beet. Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart. Seed rate is 100-120g/100 m ² . If broadcasting is done, double the dose is



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Onion		Nursery raisin	ng	- Apply Captan 50 WP @ 2g/ litre of water during final land preparation as
Onion		Truisci y Taisin	18	preventive measures against soil borne diseases. For 25 m ² area we need ½ kg seeds.
				- check that the new sprouts/ young plants in nursery beds are not damaged.
Potato Tuber seed			Sowing may be done at a spacing of 60cm X 15-20cm after the soil attains optimum	
Totato		treatment and		soil moisture. Recommended varieties are Kufri Megha and Kufri Jyoti. Seed rate is
		sowing		25-30 quintals/ hectare. Treat seed tubers with Sixer (Carbendazim + Mancozeb) @
				2 gm/lit of water for 20 minutes and dry in shed before planting as preventive
				measure against soil borne diseases before sowing.
				Incubation of seeds in the sand bed for at about 7-10 days for sprouting of seed is
				also advisible. Sow seed at about 3 inch depth.
Ginger/ Turme	eric	Rhizome	Rhizome rot	- Spray Carbendazim @2.5 g/lit of water for rhizome rot.
		formation	Soil nutrition	- After rains apply Phosphate solubilizing bacteria @ 3-5kg/ acre (1.6 sangam) with
			management	soil to improve soil fertility.
Animal Science	es			
Name of bird/		Stage	Disease and Management	Agro-meteorological advisories
animal Poultry	A11 a	ge groups	▲ Managament	Protect animals/ birds from sudden drop in temperature. Cover the wall with
Poultry (Chicken//	Ana	ge groups	Management	hessian cloth/ polythene sheet during night time.
Duck)				 Litter must be stirred frequently and aired every day.
Sheep/ Goat	A11 a	ge groups	Vaccination	Vaccinate against B.Q./ H.S. this time.
Sheep/ Goat	All a	ge groups	Vacciliation	Vaccinate against B.Q./ H.S. this time. Lambs should be vaccinated against Enterotoxaemia.
			De-worming	Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt.
				· · · · ·
			Shearing for wool	Sheep should be sheared during this month.
Pig		ge groups	Coccidial infection	• Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days.
	ones	ot the young	De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
			Vaccination	Vaccinate against FMD.
			Skin disease	• Sprayer of Anti- <i>Psoroptic</i> may be used
		ge groups	Vaccination	• Vaccinate against B.Q., F.M.D. & H.S.if not yet vaccinated.
Cattle	_	ots the young		• Cases of H.S. may be encountered during this period
	ones			• Immediate treatment using appropriate drugs with the help of Consultant must be
				advocated to safe the animals.
			Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml
			. C ² - M	for 100 kg body weight.
			Care & Management	Mixture of mineral/ salts should be added in the feed. A visid the pattle from phiting by Flies.
				 Avoid the cattle from chiting/biting by Flies Adopt tick control measures
			Mastitis	1
• Fodder oultive	tion. O	ot/Chinasa aahl		Adequate care must be ensured for prevention of mastitis for the milch animals.
Fishery:	tion: O	at/ Chinese cabi	bage/ Berseum may be grown	
Type of	Stag	Je	Management	Agro-metrological advisories
Farming	Stag	,~		ANGLO MICOLOMOGRAM MUTISOLICO
Carp	Nur	series/	Pond and water	Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.
culture	· · · · · ·			Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by
				mixing with water.
			Feed	Provide feed 2 times @ 3-5 % body weight per day. Provide good feed having 30%
				crude protein fortified with vitamins and mineral.
			Fish	For semi-intensive farming, 10000-12000 fingerlings can be stocked in one hectare
				pond. Stocking ratio may be maintained at 40% of surface feeder, 30% column
* Partial/ total harvesting of fish s				feeder and 30% bottom feeder.
			111 1	Sampling of fish for growth, disease should be done regularly by netting.
* Partial/ total h	narves	ting of fish sho	ould be done.	

Lakliba Thangja faoba nong khara churaba yai amadi Nongmaijing dage leichil tharaba yai. Ayukki matamda nouna chongkhatlakpa ingtham mana masing singbu ishing paa na chaibiduna mana kenbadagi kanbiyu.