

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Bishnupur (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 32-33 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle Initiation	Case worm, borer,	 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
		leaf folder, plant hopper or thrips	water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		 Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric Rhizome formation		Soft rot in ginger and Rhizome rot in turmeric		- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.			
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccinati	on	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	All age groups • Vacci		on	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
		ots the young	Deworming		De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			Endopara Ectoparas		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	Pond and water	depth sho	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	nurseries - Pon- maint		maintaine	hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				ĥa.	2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1		
	Grow	-out	Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

Chandel

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4-3.1km/ hr.

Weather forecast for next five days of Chandel (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 31-33 °C & minimum temp. 22-23 °C. Relative humidity may reach upto 100 % (max RH) & 74 % (min RH). The average wind speed may be 2-4 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Stuge	Test and disease	- Maintain water level to 5-8cm and drain out excess water if accumulated due to rain.
			- Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
			- Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer After top dressing, one/ two prophylactic spray(s) in sunny days with 300-
	Tillering to Panicle Initiation		400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/			- Hand weeding should be done after rains to avoid hairy caterpillar. Also,
Groundnut			earthing-up and thinning may be done after rains. Avoid earthing up after 40
	Flowering to		days of sowing in groundnut.
	pegging	***	- Maintain proper drainage system to avoid water logging due to rains.
		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or
		T'11 1'	spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
Dll / D!	TI.	Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut Hand weeding should be done after rains if the weed population is high.
Blackgram/ Rice Bean	Flowering to fruiting		- Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest		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.
	management		For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric Rhizome formation		Soft rot in ginger and Rhizome rot in turmeric		- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.			
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccinati	on	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	All age groups • Vacci		on	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
		ots the young	Deworming		De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			Endopara Ectoparas		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	Pond and water	depth sho	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	nurseries - Pon- maint		maintaine	hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				ĥa.	2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1		
	Grow	-out	Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Churachandpur (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 32-33 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 68 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops	C4	D (1.12	A
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle Initiation		 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline
	Panicle Initiation		diluted in 400-500 litres of water.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main crop	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
		Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric Rhizome formation		Soft rot in ginger and Rhizome rot in turmeric		- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.			
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccinati	on	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	All age groups • Vacci		on	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
		ots the young	Deworming		De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			Endopara Ectoparas		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	Pond and water	depth sho	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	nurseries - Pon- maint		maintaine	hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				ĥa.	2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1		
	Grow	-out	Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Imphal East (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 32-33 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 66 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops			,
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle Initiation	Case worm, borer, leaf folder, plant hopper or thrips	 Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
Soybean/ Groundnut	Flowering to	Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha. - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
	 T 1.1		- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric Rhizome formation		Soft rot in ginger and Rhizome rot in turmeric		- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.			
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccinati	on	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	All age groups • Vacci		on	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
		ots the young	Deworming		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			Endopara Ectoparas		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	Pond and water	depth sho	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	nurseries - Pon- maint		maintaine	hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				ĥa.	2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1		
	Grow	-out	Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

Imphal West

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Imphal West (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 32-33 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 51 % (min RH). The average wind speed may be 0-4 km/hr.

Field Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle Initiation	Case worm, borer,	 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
		leaf folder, plant hopper or thrips	water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		 Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric Rhizome formation		Soft rot in ginger and Rhizome rot in turmeric		- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.			
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccinati	on	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	All age groups • Vacci		on	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
		ots the young	Deworming		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			Endopara Ectoparas		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	Pond and water	depth sho	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	nurseries - Pon- maint		maintaine	hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				ĥa.	2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1		
	Grow	-out	Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Senapati (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 31-32°C & minimum temp. 21-22 °C. Relative humidity may reach upto 100 % (max RH) & 80 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops	T	1	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice			 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer.
	Tillering to Panicle Initiation		- After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		 - Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. - Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.
Ginger/ Turmeric	Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.
Animal Sciences			
	g water for birds and	animals. Drainage may l	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories



Manipur Centre, Lamphelpat, Imphal - 795 004



"Gramin Krishi Mausam Seva"

Poultry	All age groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/ Duck)	′	Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.
		Management	• Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	Vaccination	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Management	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
	All age groups except the young	De-worming	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		 Vaccination 	Vaccinate against FMD.
		Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age groups	Vaccination	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		• Endoparasite/ Ectoparasite	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Care & Management	Give mineral mixture @ 30-50g daily.
		Milk fever	• Give 100-150ml of mixture calcium and phosphorous daily.

* Encircle pond	a witn nappa net oi	h happa net or raise the pond dyke height to avoid escape of fishes.		
Type of Farming	Stage	Management	Agro-metrological advisories	
Carp culture	Breeding	Pond and water	- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.	
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.	
	F		- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.	
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.	
	Grow -out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.	
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.	
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.	

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



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was **1.4** – **3.1**km/ hr.

Weather forecast for next five days of Tamenglong (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 31-32°C & minimum temp. 21-22 °C. Relative humidity may reach upto 100 % (max RH) & 67 % (min RH). The average wind speed may be 2-3 km/hr.

Field Crops	1		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Tillering to Panicle Initiation	Case worm, borer,	 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water. Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of
		leaf folder, plant hopper or thrips	water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		 Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric		Pric Rhizome Soft rot in Rhizome r turmeric			- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.		
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccination		• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	ge groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	excepts the young ones		Deworming		• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			• Endoparasite/ Ectoparasite		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	depth sho		nd clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water uld be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	ries	- Ponds sh maintaine		hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock ha.			
	Grow -out		Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Thoubal (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 32-33 °C & minimum temp. 23-24 °C. Relative humidity may reach upto 100 % (max RH) & 74 % (min RH). The average wind speed may be 2-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	A ano motoconological advisorios
	Stage	Pest and disease	Agro-meteorological advisories
Rice			 Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha.
	Tillering to Panicle Initiation		 Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		- Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut.
	pegging	***	- Maintain proper drainage system to avoid water logging due to rains.
		Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops	•	•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cauliflower	Vegetative stage of early crop and nursery of main	Whiptail	- The cauliflower plant before or at early curd formation stage, if the leaf margin turns white then reduce the dose of urea to be applied and apply 0.1% Ammonium Molybdate or Tracel @ 5g/ lit water.
	crop	Soft rot	Spray Streptocycline @ 0.1mg/ lit water at 10-15 days interval at least twice or Carbendazim @ 1-2 mg/ lit water.
			- Raise main crop cauliflower nursery.
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.



Manipur Centre, Lamphelpat, Imphal - 795 004



Ginger/ Turmeric		Pric Rhizome Soft rot in Rhizome r turmeric			- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.		
Animal Scien	ces	Į.					
	drinking	g water for bir			be constructed well around the birds or animals sheds to avoid water logging.		
Name of bird/ animal		Stage		ase and agement	Agro-meteorological advisories		
Poultry	All ag	ge groups	Vaccinati	on	Vaccinate birds against Fowl Pox.		
(Chicken/ Duck)			Deworming	ng	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.		
			Managem	ent	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.		
Sheep/ Goat	All aş	ge groups	Vaccination		• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.		
			Fasciolic	osis	Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.		
			Managem	ent	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging. 		
Pig		ge groups of the young	• De-worm	ing	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.		
	ones	, ,	• Ticks		Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.		
			Vaccinati	on	Vaccinate against FMD.		
			Management		Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.		
Cattle	All as	ge groups	Vaccination		Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.		
	excepts the young ones		Deworming		De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.		
			• Endoparasite/ Ectoparasite		• Inject Ivomec @ 1 ml/ 50 kg body weight.		
			• Care & M		• Give mineral mixture @ 30-50g daily.		
			Milk feve	r	Give 100-150ml of mixture calcium and phosphorous daily.		
Fishery							
					oid escape of fishes.		
Type of Farming		Stage	Managemen		trological advisories		
Carp culture	Breed	ing	depth sho		nd clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water uld be maintained at 1.0-1.5m.		
			Fish		ood quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, atla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than		
			Hormone dos		/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for .		
	nurser	ries	- Ponds sh maintaine		hould be free from unwanted vegetation and insects and water depth should be d at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be		
				provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock ha.			
	Grow -out		Pond and water	of pond w	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.		
			Fish		,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular		
			Feed	- Well bal	lanced feed fortified with vitamins and minerals should be provided @ 3-5% body r day. Feed can be fed at 2-3 times a day.		



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

14th August, 2018

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 15th to 19th August, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (10th to 13th August, 2018)

Observed **28.4 mm** rainfall with **mainly cloudy to overcast sky**. Maximum temperature recorded ranged from **28.7** to **30.5** °C and minimum of **22.6** to **22.7** °C with mean relative humidity **92.3** % max and **72.0** % min was recorded in the past four days & average wind speed was 1.4 - 3.1km/ hr.

Weather forecast for next five days of Ukhrul (15th to 19th August, 2018)

Likely to have moderate to heavy rains from Saturday and mainly cloudy to overcast sky with maximum temp. 31-32°C & minimum temp. 21-22 °C. Relative humidity may reach upto 100 % (max RH) & 81 % (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	Tillering to Panicle Initiation		 - Maintain water level to 5-8cm and drain out excess water if accumulated due to rain. - Weeding may be done manually or by using conoweeder followed by top dressing with Urea @33kg/ ha. - Apply 16-24 kg of Carbofuran (3G)/ ha with first top dressing of fertilizer. - After top dressing, one/ two prophylactic spray(s) in sunny days with 300-400ml Phosphamidon (40% EC), 300g Carbendazim and 20g Streptocycline diluted in 400-500 litres of water.
		Case worm, borer, leaf folder, plant hopper or thrips	Spray Coragen @3ml/15 lit of water or Lambdacyhothrin @ 15ml/ 15 litre of water (at least three pumps per sangam).
		Gall midge	- For gall midge, spray Fipronil @ 2g/ 15 lit water.
		Sucking insect	Imidachloprid @ 8ml/ 15 litres of water.
		Stem borer	- For stem borer, spray Chlorantraliniprol 23.5% @ 40 ml/ha.
Soybean/ Groundnut	Flowering to		Hand weeding should be done after rains to avoid hairy caterpillar. Also, earthing-up and thinning may be done after rains. Avoid earthing up after 40 days of sowing in groundnut. Maintain proper drainage system to avoid water logging due to rains.
	pegging	Hairy caterpillars	- For control of hairy caterpillars, dust 5% Malathion @ 20 kg/ ha to control it or spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water).
		Tikka disease	- Spray Carbendazim @ 0.5g / lit of water to control Tikka disease in groundnut.
Blackgram/ Rice Bean	Flowering to fruiting		 - Hand weeding should be done after rains if the weed population is high. - Spray Dichlorovos 76 EC 0.05% (0.6ml/ lit of water) against hairy caterpillars.
Seeds storage	Post-harvest management		For seed purpose store the seeds in <i>RC-Seed Bin</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops		•	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
King Chilli	Fruiting	Fruit rot and aphid	- Spray Redomil @ 2g/lit water or combination of Metalyx- M and Mancozeb a.i. then Imidacloprid @ 3ml/10lit of water.
Citrus		leaf eating caterpillar, thrips & mite.	- Spray Confidor @ 0.5 ml/ lit of water.
		Powdery mildew	Fungicide like <i>Carbendazim and sixer</i> must be applied as prophylactic measures. If powdery mildew is seen in the orchard, then <i>Bayleton</i> @7 g / 15 lit of water should be sprayed in the grown up trees.
Ginger/ Turmeric	Rhizome formation	Soft rot in ginger and Rhizome rot in turmeric	- Spray Redomil MZ 72 WP @ 2g/lit water alternately with Carbendazim @ 2g/lit water at 14 days interval.



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

* Provide clean		s and animals. Drainage may	be constructed well around the birds or animals sheds to avoid water logging.
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry	All age groups	 Vaccination 	Vaccinate birds against Fowl Pox.
(Chicken/ Duck)		Deworming	• Deworming against Helminth parasites using Piperazine liquid @ 30-40ml for 100 birds in drinking water. Again give half of the dose on second day.
		Management	Do not allow to consume muddy water to protect from E.coli infection. Use water sanitizer.
Sheep/ Goat	All age groups	Vaccination	• If the animals are not vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month.
		Fascioliosis	• Give Tolzan-F @ 15ml orally/ kg b. wt. It must be associated with vitamins like Livozyme @ 50ml twice daily.
		Management	 Protect from thunder showers. Protect from after winds (loo). Avoid flies by using Basil/ bouquets of Nirgundi or lemon grass by hanging.
Pig	All age groups except the young	De-worming	Deworming against Helminth parasites using Piperazine citrate @ 30 ml per adult animal once.
	ones	• Ticks	• Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.
		 Vaccination 	Vaccinate against FMD.
		Management	• Give mineral mixture like Vimicon and Ascagold suspension in pregnant sow @ 20g and 20ml resp. in feed.
Cattle	All age groups	 Vaccination 	Vaccinate against B.Q., F.M.D. & H.S. if not yet vaccinated.
	excepts the young ones	Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
		Endoparasite/ Ectoparasite	• Inject Ivomec @ 1 ml/ 50 kg body weight.
		Care & Management	Give mineral mixture @ 30-50g daily.
		Milk fever	Give 100-150ml of mixture calcium and phosphorous daily.

Fishery

* Encircle pona with nappa net or raise the pona ayke height to avoia escape of fishes.							
Type of	Stage	Management	Agro-metrological advisories				

Type of	Stage	Management	Agro-metrological advisories
Farming			
Carp culture	Carp culture Breeding Pond a		- Clean and clear water having 7.0-7.8 pH free from unwanted vegetation and insects. Water depth should be maintained at 1.0-1.5m.
		Fish	- Select good quality of carp brooders (2-4 years old) having more than 1kg b. wt. for Rohu, Mrigal, Catla, Kuri for seed production. For Pengba & Khabak b. wt. May be less than 300g.
		Hormone dose	- Ovitide/ Wova-FH/ Ovaprim@ 0.5ml/kg body weight can be injected to induce for spawning.
	nurseries		- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m. p ^H of pond water should be maintained at 7.0-7.5. Feeds should be provided 2-3 times a day @ 5-10 body weight per day. 20-30 million spawn can be stock in 1 ha.
	Grow -out	Pond and water	- Regular manuring at interval of 30 days with a slurry of RCD @1500kg/ha. Maintained p ^H of pond water at 7.0-7.5. Greenish colouration of water is desirable. If any change in colour, odour of water half of the water should be drain out and replace with fresh water.
		Fish	- 8000-10,000 fingerlings/ha can be stocked. Sampling of fish should be done by regular netting.
		Feed	- Well balanced feed fortified with vitamins and minerals should be provided @ 3-5% body weight per day. Feed can be fed at 2-3 times a day.