



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Bishnupur (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **30 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **100 %** (max RH) & **32 %** (min RH). The average wind speed may be **0-2 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



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Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Chandel (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **28 °C** & minimum temp. **14 °C**. Relative humidity may reach up to **78 %** (max RH) & **25 %** (min RH). The average wind speed may be **2-3 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



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“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

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Weather forecast for next five days of Churachandpur (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **29-30 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **97 %** (max RH) & **31 %** (min RH). The average wind speed may be **2-4 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



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“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 2018****Imphal East**

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Weather forecast for next five days of Imphal East (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **29-30 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **91 %** (max RH) & **30 %** (min RH). The average wind speed may be **3-4 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Imphal West (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **29-30 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **97 %** (max RH) & **39 %** (min RH). The average wind speed may be **2-4 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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
			• Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Senapati (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **26 °C** & minimum temp. **12-13 °C**. Relative humidity may reach up to **87 %** (max RH) & **38 %** (min RH). The average wind speed may be **3-4 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
<i>Animal Sciences</i>			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Tamenglong (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **27-28 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **94 %** (max RH) & **35 %** (min RH). The average wind speed may be **3 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Thoubal (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **30 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **99 %** (max RH) & **29 %** (min RH). The average wind speed may be **0-2 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Onion	Harvesting		- Onion bulbs may be harvested before rains and spread in the shed, let it dry for about 7-10 days without cutting the leaves to hasten the maturity. After this, cut the leaves and roots, injured and damaged ones may be sorted out and graded.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”



Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.
Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 save 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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @1500kg/ha at interval of 30 days should be done.
		Fish	8000-10,000 fingerlings can be stocked per ha. Sampling of fish for growth, diseases (if any) should be done by regular netting.
		Feed	Well balanced feed should be provided @ 3-5% body weight per day in 2-3 splits.
Paddy cum fish culture	Field		Prepare trenches/channels in rice field to a depth of 1.0 - 1.5m. 30-40% of the rice fields can be converted into trenches/ditch/channels for paddy cum fish culture.
Cat fish (Ngakra)	Pond and water		Pond water may be replenished with fresh water maintaining a depth of 1m.
	Fish		Male and female brooder fishes may be segregated for breeding operations.
	Feed		Well balanced feed may be fed @ 3-5% body weight/day.

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



ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004
“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****27th April, 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 28th April to 2nd May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (24th to 26th April, 2018)

Observed **no** rainfall with **mainly clear to partly cloudy but mainly cloudy** on 26th April. Maximum temperature recorded ranged from **27.3 to 29.8 °C** and minimum of **14.0 to 17.5 °C** with mean relative humidity **81.3 %** max and **29.3 %** min was recorded in the past three days.

Weather forecast for next five days of Ukhrul (28th April to 2nd May, 2018)

Likely to have widespread rainfall from Sunday during next five days but heavy rainfall at isolated places on 30th April with mainly cloudy to overcast sky with maximum temp. **27-28 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **81 %** (max RH) & **52 %** (min RH). The average wind speed may be **3-4 km/hr**.

* Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done after rains. Drainage may be constructed well to avoid water logging in and around the crop field.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Tillering		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field.
Maize	<i>For Rabi Maize</i> Vegetative to flowering & silking		- Drainage may be constructed well to avoid water logging in and around the crop field. - Construct wind breaks to avoid uprooting of standing crops by the high speed winds.
	<i>Kharif maize</i> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source.
Soybean/ Groundnut/ Blackgram/ Redgram	Seed collection to Land preparation		- Collect good quality seeds from reliable source for sowing. - Land preparation for sowing of soybean/ groundnut/ blackgram/ redgram may be started after rains.
Seeds storage	Post harvest management		For seed purpose store the seeds in RC-Seed Bin after proper drying and cleaning of seeds along with dry charcoal at 80:20 w/w ratios. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Bhindi	Sowing		Bhindi may be sown at the spacing of 30cm X 45cm after rains.
Ginger & turmeric	Planting		Planting of ginger and turmeric may be done after rains.
Cucurbits	Transplanting to vegetative		For the crops in vegetative stage, proper staking may be done to avoid plants to have direct contact with soil especially during rainy days. Avoid water logging.
Colocasia	Land preparation for planting		- Prepare land for planting colocasia after rains.
Animal Sciences			
* Repair the sheds of birds and animals to protect from strong winds and rains.			
* Disinfect the farm premises of all livestock/ poultry (surrounding area of 3ft width) using the repellent agent/ insecticides spray after rains.			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Duck)	All age groups	• Ranikhet disease	• Strongly advised to vaccinate against Ranikhet disease. Vaccinate the flock using Lasota strain vaccine through ocular route if the age of chick is less than 21 days and through nasal route if it is older than 21 days.
		• Coccidiosis	• Give Amprolium @ 2 gms/ litre of drinking water for 5-7 days.
Sheep/ Goat	All age groups	• Vaccination	• If the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. do it in this month. • PPR immunization must be done once in every three years.
		• Management	• Fly repellent must be used in the premises of the sheds.



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Pig	All age groups except the young ones	• De-worming	• De-worm with Albendazole @ 7.5 mg/kg b.wt.
		• Vaccination	• Vaccinate against FMD and Swine Fever.
		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
		• Management	• Breeding must be advocated continuously.
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 • Adequate care must be ensured for protecting from untimely strong rain/wind
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before for large scale fish culture.			
* Care must be taken for newly rain fed ponds by liming for stocking fish fries/ fingerlings or yearlings.			
* Intensive care must be taken for fish brooders by keeping them in separate ponds. It must be provided with balanced feed and good quality water.			
Type of Farming	Stage	management	Agro-metrological advisories
Carp culture	nurseries	Pond and water	Ponds water should be clean and clear free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.
		Feed	Well balanced feeds should be provided 2-3 times a day @ 5-10% body weight/day
		Fish	20-30 million spawn can be stock in 1 ha pond.
	Grow -out	Pond and water	Regular manuring with a slurry of RCD @ 1500kg/ha at interval of 30 days should be done.
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