



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

**MANIPUR BULLETIN****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Bishnupur (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **25-26 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **100 %** (max RH) & **55 %** (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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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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**“Gramin Krishi Mausam Seva”**



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**MANIPUR BULLETIN****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Chandel (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **23-24 °C** & minimum temp. **13-14 °C**. Relative humidity may reach up to **85 %** (max RH) & **34 %** (min RH). The average wind speed may be **2-5 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
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativ@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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**“Gramin Krishi Mausam Seva”**



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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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****11<sup>th</sup> May, 2018****Churachandpur**

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Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Churachandpur (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **24-25 °C** & minimum temp. **14-15 °C**. Relative humidity may reach up to **100 %** (max RH) & **58 %** (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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
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<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
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		• 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.
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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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**MANIPUR BULLETIN****11<sup>th</sup> May, 2018****Imphal East**

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**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Imphal East (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **24-25 °C** & minimum temp. **15 °C**. Relative humidity may reach up to **100 %** (max RH) & **41 %** (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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<b>For Rabi Maize</b> Cob formation to Maturity		- 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.
	<b>Kharif maize</b> Land preparation and seed collection		Land preparation for maize cultivation can be started after rains. Procure disease free quality seeds from reliable source. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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



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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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 Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



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



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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Imphal West (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **24-25 °C** & minimum temp. **15 °C**. Relative humidity may reach up to **100 %** (max RH) & **53 %** (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.

<i><b>Field Crops</b></i>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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><b>Horticulture Crops</b></i>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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



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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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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**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Senapati (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **21 °C** & minimum temp. **12 °C**. Relative humidity may reach up to **100 %** (max RH) & **46 %** (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.

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.

**ICAR Research Complex for N.E.H. Region**

Manipur Centre, Lamphelpat, Imphal - 795 004

**“Gramin Krishi Mausam Seva”****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
<b>Poultry (Chicken/ Duck)</b>	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.
<b>Sheep/ Goat</b>	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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
<b>Pig</b>	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. • Protect from thunder showers especially during night.
<b>Cattle</b>	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/water to avoid loss of essential body salts.
			• 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
<b>Carp culture</b>	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.
<b>Paddy cum fish culture</b>	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.
<b>Cat fish (Ngakra)</b>	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 Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**

**MANIPUR BULLETIN****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Tamenglong (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **22 °C** & minimum temp. **13 °C**. Relative humidity may reach up to **100 %** (max RH) & **51 %** (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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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**“Gramin Krishi Mausam Seva”**



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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Thoubal (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **25-26 °C** & minimum temp. **15-16 °C**. Relative humidity may reach up to **100 %** (max RH) & **44 %** (min RH). The average wind speed may be **0-4 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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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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.
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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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 Anti-Psoroptic may be used.
		• Management	• Breeding must be advocated continuously. • Protect from thunder showers especially during night.
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/water to avoid loss of essential body salts.
			• 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****11<sup>th</sup> May, 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 12<sup>th</sup> to 16<sup>th</sup> May, 2018 as below:

**Significant past weather for the preceding bi-weekly of Imphal - West (8<sup>th</sup> to 10<sup>th</sup> May, 2018)**

Observed **30.5 mm** rainfall with **overcast sky** during past three days. Maximum temperature recorded ranged from **22.8 to 26.8 °C** and minimum of **15.4 to 19.3 °C** with mean relative humidity **92.0 %** max and **74.3 %** min was recorded in the past three days.

**Weather forecast for next five days of Ukhrul (12<sup>th</sup> to 16<sup>th</sup> May, 2018)**

Likely to have thunderstorm with gusty winds at isolated places upto 14<sup>th</sup> May and widespread rains with mainly cloudy to overcast sky with maximum temp. **22 °C** & minimum temp. **13 °C**. Relative humidity may reach up to **88 %** (max RH) & **37 %** (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.

<b>Field Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to rain in crop field. -Top dressing may be done after the rains.
	Seed collection (Kharif rice)		- Collect well filled disease free quality seeds from reliable source for sowing nursery. Treat seeds with Carbendazim @ 2g/kg seeds before sowing. - Land preparation for raising kharif rice nursery may be started.
<b>Maize</b>	<i>For Rabi Maize</i> Cob formation to Maturity		- 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. Treat seeds with Carbendazim @ 2g/kg seeds before sowing after rains.
<b>Soybean</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Sow seed after rains @ 40-45 kg/ha or 10-11.3 kg of seed /sangam and the recommended variety is J.S.335. Sowing may be done at spacing of 45cm x 30cm. Treat seeds with Nativo@2g/kg seeds or with Bavistin@2.5g/kg seed or with Thiram.
<b>Groundnut</b>	Sowing		- Plot must be kept weed free to avoid insect/ pest. - Seed rate is 100 – 110 kg/ha and the recommended varieties are ICGS-75 & JL-24. Sow seeds at spacing 30cm x 15cm after rains. Treat seeds with Imidacloprid @ 2ml/ litre water or Bavistin @ 2.5g/ kg seed or with Thiram.
<b>Blackgram/ Rice Bean</b>	Sowing		- Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
<b>Seeds storage</b>	Post harvest management		For seed purpose store the seeds in <b>RC-Seed Bin</b> 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.
<b>Horticulture Crops</b>			
<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Lime/ Lemon</b>	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet to transplant the seeded or grafted seedlings from a reliable source. Incorporate 10-12 kg of FYM and Trichoderma @ 20g/ pit with the top soil. Avoid water logging area.
<b>Cucurbits</b>	Vegetative to flowering and fruiting		- Weeding may be done after rains. - Provide proper staking to support plants and avoid fruits to touch soil. - Rotting of young fruits/ premature ripening of fruits if observed then Methyl Eugenol or Beculure may be used as pheromone trap for fruit fly and insecticides like Cypermethrin may be sprayed. Neem oil may also be used.
<b>Colocasia</b>	Planting		- Select healthy mother rhizome. Treat planting material before sowing.



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Animal Sciences			
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		• 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.
		• Management	• Fly repellent must be used in the premises of the sheds. • Protect from thunder showers. • Protect from after winds (loo).
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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/water to avoid loss of essential body salts.
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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.
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	Feed		Well balanced feed may be fed @ 3-5% body weight/day.





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