



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

**MANIPUR BULLETIN****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Bishnupur (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 % (max RH) & 60 % (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 repellant 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

Lakliba Sagolseldagi mafam ayambada nong kannu churaba yai. Nong ishing yoxsinbiyu amadi loufamda ahenba ishing tungsindanaba semjinbiyu. Sha uchekki makol semjinbiyu amadi aruba thaknaba ishingda potash granules happaga pibiyu. Yenda til leitanaba Levamisole Hydrochloride pibiyu.

(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Chandel (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **28-29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **84 %** (max RH) & **40 %** (min RH). The average wind speed may be **4 km/hr**.

*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

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“Gramin Krishi Mausam Seva”

Tomato	Fruiting to harvesting		Avoid water logging. Harvest mature fruits before rains.
Animal Sciences			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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****15th May, 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 16th to 20th May, 2018 as below:

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Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Churachandpur (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **28-29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 % (max RH)** & **68 % (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sagam 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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.
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Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
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		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
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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.
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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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		Fish	20-30 million spawn can be stock in 1 ha pond.
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(I. Meghachandra Singh)
Scientist i/c, GKMS



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“Gramin Krishi Mausam Seva”

**MANIPUR BULLETIN****15th May, 2018****Imphal East**

GKMS at AMFU- Lamphelpat, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and India Meteorological Department, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 16th to 20th May, 2018 as below:

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Weather forecast for next five days of Imphal East (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **28-29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 % (max RH)** & **50 % (min RH)**. The average wind speed may be **2 km/hr**.

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	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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 repellant 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

Lakliba Sagolseldagi mafam ayambada nong kannu churaba yai. Nong ishing yoxsinbiyu amadi loufamda ahenba ishing tungsindanaba semjinbiyu. Sha uchekki makol semjinbiyu amadi aruba thaknaba ishingda potash granules happaga pibiyu. Yenda til leitanaba Levamisole Hydrochloride pibiyu.

(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Imphal West (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **28-29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 % (max RH)** & **65 % (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

Lakliba Sagolseldagi mafam ayambada nong kanna churaba yai. Nong ishing yoxsinbiyu amadi loufamda ahenba ishing tungsindanaba semjinbiyu. Sha uchekki makol semjinbiyu amadi aruba thaknaba ishingda potash granules happaga pibiyu. Yenda til leitanaba Levamisole Hydrochloride pibiyu.

(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Senapati (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **25-26 °C** & minimum temp. **16-17 °C**. Relative humidity may reach up to **100 % (max RH)** & **60 % (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

<i>Field Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
<i>Horticulture Crops</i>			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

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

Manipur Centre, Lamphelpat, Imphal - 795 004

“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of bird/ animal	Stage	Disease 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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

Lakliba Sagolseldagi mafam ayambada nong kannu churaba yai. Nong ishing yoksinbiyu amadi loufamda ahenba ishing tungsindanaba semjinbiyu. Sha uchekki makol semjinbiyu amadi aruba thaknaba ishingda potash granules happaga pibiyu. Yenda til leitanaba Levamisole Hydrochloride pibiyu.

(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Tamenglong (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **28-29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 %** (max RH) & **64 %** (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

Lakliba Sagolseldagi mafam ayambada nong kanna churaba yai. Nong ishing yoksiniyu amadi loufamda ahenba ishing tungsindanaba semjinbiyu. Sha uchekki makol semjinbiyu amadi aruba thaknaba ishingda potash granules happaga pibiyu. Yenda til leitanaba Levamisole Hydrochloride pibiyu.

(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Thoubal (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **29 °C** & minimum temp. **19-20 °C**. Relative humidity may reach up to **100 % (max RH) & 64 % (min RH)**. The average wind speed may be **4 km/hr**.

*** Harvest rain water for future use. Harvesting mature crops, fertilizer application or insecticide or pesticide sprays may be done before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
Blackgram/ Rice Bean	Land preparation to Sowing		- Prepare land after rains. Sowing may be done by broadcasting or dibbling. Plot must be kept weed free to avoid insect/ pest.
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 properly. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Lime/ Lemon	Transplanting		- In fertile upland area, prepare pits of size 2x2x2 feet after rains 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.
Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.

**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			
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.
		• Endoparasites	• De-worm using Levamisole Hydrochloride. Potash granules may be added in the drinking water of poultry.
		• 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 repellant 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 <i>Anti-Psoroptic</i> 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 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
• Fodder cultivation: Berseem/ oat crop may be sown immediately.			
Fishery			
* New fish ponds may be made or old ones may be renovated/ cleaned before rains 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.

SMS:

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(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****15th 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 16th to 20th May, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (11th to 14th May, 2018)

Observed **27.0 mm** rainfall with **overcast sky** upto 12th morning hours and **partly cloudy to mainly cloudy** thereafter during past four days. Maximum temperature recorded ranged from **21.3 to 28.0 °C** and minimum of **15.6 to 17.0 °C** with mean relative humidity **91.8 %** max and **63.5 %** min was recorded in the past four days.

Weather forecast for next five days of Ukhrul (16th to 20th May, 2018)

Very likely to have widespread heavy rains from Thursday to Sunday and mainly cloudy to overcast sky with maximum temp. **26-28 °C** & minimum temp. **17-18 °C**. Relative humidity may reach up to **84 %** (max RH) & **45 %** (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 before heavy rains from Thursday. Drainage may be constructed well to avoid water logging in and around the crop field. The sheds of birds and animals may be well constructed/ repaired to protect from heavy rains and provide clean drinking water. Encircle fish ponds with happa net to avoid escape of fishes.**

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Rice	Panicle Initiation (Pre-kharif rice)		- Maintained optimum water depth of 5-8cm in the field. Drain out excess water if accumulated due to heavy 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 after rains.
Maize	<i>For Rabi Maize</i> Cob Maturity to harvesting		- Harvest mature cobs before rains. - Drainage may be constructed well to avoid water logging in and around the crop field.
	<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.
Soybean	Land preparation to Sowing		- Prepare land after rains. 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 /sangan 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.
Groundnut	Land preparation to Sowing		- Prepare land after rains. 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.
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Horticulture Crops			
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Cucurbits	Vegetative to flowering and fruiting		- Avoid water logging. 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 after rains. Neem oil may also be used.
Colocasia	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.



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Type of Farming	Stage	Management	Agro-metrological advisories
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