



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

**MANIPUR BULLETIN****25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>  Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Bishnupur (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>  Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>29-31 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 76 % (min RH)</b>. The average wind speed may be <b>2-4 km/hr.</b></p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



<i>Animal Sciences</i>			
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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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



**MANIPUR BULLETIN**

**25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>                  Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Chandel (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>                   Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>28-30 °C</b> &amp; minimum temp. <b>20-23 °C</b>. Relative humidity may reach up to <b>99 % (max RH) &amp; 94 % (min RH)</b>. The average wind speed may be <b>2-4 km/hr</b>.</p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
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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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		• 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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Churachandpur

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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
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<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
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• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<b>Fishery</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
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(I. Meghachandra Singh)  
 Scientist i/c, GKMS



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<b>Name of the crop</b>	<b>Stage</b>	<b>Pest and disease</b>	<b>Agro-meteorological advisories</b>
<b>Rice</b>	Panicle Initiation <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<b>Fishery</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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



**MANIPUR BULLETIN**

**25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>                  Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Imphal West (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>                  Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>29-31 °C</b> &amp; minimum temp. <b>21-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 68 % (min RH)</b>. The average wind speed may be <b>0-4 km/hr.</b></p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



<b>Animal Sciences</b>			
<b>Name of bird/ animal</b>	<b>Stage</b>	<b>Disease and Management</b>	<b>Agro-meteorological advisories</b>
<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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<b>Fishery</b>			
<b>Type of Farming</b>	<b>Stage</b>	<b>Management</b>	<b>Agro-metrological advisories</b>
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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

**MANIPUR BULLETIN****25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>          Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Senapati (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>          Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>27-28 °C</b> &amp; minimum temp. <b>17-18 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 73 % (min RH)</b>. The average wind speed may be <b>2-3 km/hr.</b></p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



<i>Animal Sciences</i>			
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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

(I. Meghachandra Singh)  
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**Manipur Centre, Lamphelpat, Imphal - 795 004**  
**“Gramin Krishi Mausam Seva”**



**MANIPUR BULLETIN**

**25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>                  Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Tamenglong (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>                  Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>27-28 °C</b> &amp; minimum temp. <b>17-18 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 73 % (min RH)</b>. The average wind speed may be <b>2-3 km/hr.</b></p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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



<i>Animal Sciences</i>			
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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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



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**MANIPUR BULLETIN**

**25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>          Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Thoubal (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>           Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>29-31 °C</b> &amp; minimum temp. <b>22-23 °C</b>. Relative humidity may reach up to <b>100 % (max RH) &amp; 76 % (min RH)</b>. The average wind speed may be <b>2-4 km/hr.</b></p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
<b>Colocasia</b>	Planting		- Planting may be done after rains. Select healthy planting material and treat it before planting.
<b>Tomato/ Chilli</b>	Flowering & fruiting to harvesting		- Retain mature and healthy fruits for seeds.
		Late Blight	- Harvest mature ones and spray Dithane M-45 @ 2g/lit of water.
<b>Ginger/ Turmeric</b>	Planting		- Spread the rhizome in rain sheltered area, cover it with dry sand of 2 or 1½ inches thick for incubation till the field is ready for planting.



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<i>Animal Sciences</i>			
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.
		• 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.
<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 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

• Fodder cultivation: Berseem/ oat crop may be sown immediately.

<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Brooders	Pond and water	Ensure good quality/ clean water free from unwanted plants and animals with a minimum depth of 1.5 m. Fish feed pellet or rice bran & oil cakes (in ratio 1:1) should be provided @ 3-5% body weight per day in 2-3 splits. Spray CIFAX on the surface of the pond water. Male and female brooders must be kept in separate tanks.
	Breeding	pond	Fish hormones like ovaprim, ovatide or Wova-FH can be injected in both the brooders @ <b>0.5 - 0.7 ml/kg</b> of fish.
	Hatcheries	water	Hatching can be done in traditional hapas having outer & inner hapas or circular hatcheries. A mild current with fine shower is needed for circular hatcheries. Feed should not be given for 3 days.
	Nurseries	ponds	- Stock 20-30 lakhs spawns in one hectare water. Water depth should be more than 1.0 m. Feeding should be given@5-10% body weight/day.

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**MANIPUR BULLETIN**

**25<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 26<sup>th</sup> to 30<sup>th</sup> May, 2018 as below:

<p><b>Significant past weather for the preceding bi-weekly of Imphal - West (22<sup>nd</sup> to 24<sup>th</sup> May, 2018)</b>          Observed <b>no rainfall with mainly clear to partly cloudy upto 23<sup>rd</sup> then mainly cloudy sky on 24<sup>th</sup> May.</b> Maximum temperature recorded ranged from <b>29.9 to 30.7 °C</b> and minimum of <b>21.0 to 22.1 °C</b> with mean relative humidity <b>79.33 % max and 64.33 % min</b> was recorded in the past three days.</p>	<p><b>Weather forecast for next five days of Ukhrul (26<sup>th</sup> to 30<sup>th</sup> May, 2018)</b>           Likely to have fairly widespread rains during Sunday to Monday and partly cloudy to overcast sky with maximum temp. <b>27-29 °C</b> &amp; minimum temp. <b>17-19 °C</b>. Relative humidity may reach up to <b>99 % (max RH) &amp; 97 % (min RH)</b>. The average wind speed may be <b>2-3 km/hr</b>.</p>
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<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 <b>(Pre-kharif rice)</b>		- Maintain water level at 5-8 cm. - Monitor rice fields regularly for insect pest infestation.
	Nursery <b>(Kharif rice)</b>		- Raise kharif rice nursery. - Apply well decomposed FYM/ compost @ 1t/ 700 sq. m. at final leveling of nursery bed. After 7-10 days of sowing, apply 17-20 kg Urea and 3.5 kg of MOP per 700 m <sup>2</sup> along with 2 kg Carbofuran 3G, 2g Streptocycline and 20g Carbendazim. Maintain water level just to submerge green sprouts.
<b>Kharif Maize</b>	Sowing		- Sowing may be done.
<b>Soybean</b>	Land preparation to Sowing		- 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>	Land preparation to Sowing		- 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>	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.
<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 properly. 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>Tree bean</b>	Planting		Planting of 2 to 2.5 yrs old tree bean in upland area should be done in the pit of size 60 cm x 60 cm x 60 cm. The top soil should be mixed thoroughly with 5kg FYM. As a prophylactic measure against termite/ ants or other soil borne disease, Furadan 3-G @2gm/pit and Captan 50 WP or Sixer (Carbendazim + Mencozeb) @ 1 gm per pit may be incorporated in the soil before planting.
<b>Cucurbits (Water-melon, pumpkin, sponge gourd, etc.)</b>	Flowering & fruiting to harvesting	Powdery mildew or Downey mildew	- Harvest mature fruits and spray Bayleton (Triademeton 25WP) @ 0.7 g/ lit of water may be done twice at 10 & 14 days intervals respectively against Powdery mildew or Downey mildew especially in damped or moist area. - Drain out accumulated/ excess water in the field. - Sow cucurbits in upland area or under polyhouse.
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<i>Animal Sciences</i>			
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		• Skin disease	• Sprayer of <i>Anti-Psoroptic</i> may be used.
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<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 safe the animals.
		• Deworming	• De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight.
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<i>Fishery</i>			
Type of Farming	Stage	Management	Agro-metrological advisories
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