

Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

23rd January, **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 24th to 28th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd January, 2018)

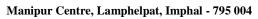
Observed mainly clear sky but partly cloudy during morning hours of 20^{th} Jan with **no** rainfall during past four days. Maximum temperature range of 23.9 to 24.2 °C and minimum temperature range of 6.2 to 7.2 °C with mean relative humidity 87 % max and 47 % min was recorded in the past four days.

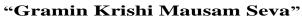
Weather forecast for next five days of Bishnupur (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. 25-26 $^{\circ}$ C & minimum temp. 7-8 $^{\circ}$ C and relative humidity may reach up to 100% (max RH) & 37% (min RH). The average wind speed may be 2-4 km/hr.

Field Crops Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare700-800 m² area of rice nursery for transplanting of one hectare area Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Downy mildew, Powdery mildew, white rust & Alternaria blight	- Insecticide sprays must be given during afternoon hours only For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once. - Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram (late variety)	Flowering to fruiting	Aphid Powdery mildew & rust	For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation	Cut worm	- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth. Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Land preparation and sowing		Prepare land for sowing bhindi.









raising to ting	and trays under polyhouse/ poly-tunnel. Recommended varieties of water melon: Sugar Baby, Madhavi-10, Madhuri and NS 295. If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level. Nursery for late crops may be raised. Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
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	and Vimeral @ 5 ml per lit of water. Provide external heat source such as
	"Meifu"/ chulhas or bulb.
	Litter must be stirred frequently and aired every day.
Coccidios	
Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
 Vaccination 	
	Enterotoxaemia, etc. this must be done during this month.
	• Take adequate care to prevent occurrence of Mastitis.
. D	• PPR immunization must be done once in every three years.
De-wormi	<u> </u>
Management	
- C :1: 1	• Increase energy feed by 5%.
• Coccidial	\ \(\frac{1}{2}\)
• De-wornin	
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ng	• 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.
Dewormin	30ml for 100 kg body weight.
• Care & M	 Avoid the cattle from chiting/biting by Flies. Adopt tick control measures
	Adequate care must be ensured for prevention of mastitis for the milch



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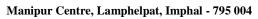
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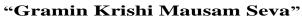
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Field Crops			,
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RC Maniphou 12 (90-105 days). - Prepare700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Aphid Downy mildew,	Insecticide sprays must be given during afternoon hours only. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
		Powdery mildew, white rust & Alternaria blight	- Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)	fruiting	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation		- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth.
	tuber formation	Cut worm	Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
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French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
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	Litter must be stirred frequently and aired every day.
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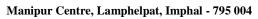
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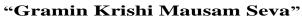
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Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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23rd January, 2018

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 24th to 28th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd January, 2018)

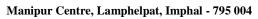
Observed mainly clear sky but partly cloudy during morning hours of 20^{th} Jan with **no** rainfall during past four days. Maximum temperature range of 23.9 to 24.2 °C and minimum temperature range of 6.2 to 7.2 °C with mean relative humidity 87 % max and 47 % min was recorded in the past four days.

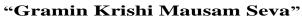
Weather forecast for next five days of Senapati (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. $21\text{-}22~^{\circ}\text{C}$ & minimum temp. $4\text{-}6~^{\circ}\text{C}$ and relative humidity may reach up to 100% (max RH) & 28% (min RH). The average wind speed may be 2 km/hr.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RC Maniphou 12 (90-105 days). - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Downy mildew, Powdery mildew, white rust & Alternaria blight	 Insecticide sprays must be given during afternoon hours only. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once. Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram (late variety)	Flowering to fruiting	Aphid Powdery mildew & rust	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation	Cut worm	- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth. Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Land preparation and sowing		Prepare land for sowing bhindi.









raising to ting	and trays under polyhouse/ poly-tunnel. Recommended varieties of water melon: Sugar Baby, Madhavi-10, Madhuri and NS 295. If the bulb formation stage has started then it must be checked that the soil is not too dry also care should be taken that the neck portion should be above the ground level. Nursery for late crops may be raised. Tomato nurseries should be raised under low cost polyhouse as the temperature is very low in open field. Nursery bed of 0.75m x 4m may be prepared and mix Carbendazim @ 5g/ 3m² area, keep the bed covered with gunny bag for at least 24 hrs. Sow seeds @ 10g/ 3m² area keep the bed covered with gunny bag. Seeds will germinate in 4-5 days.
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Training erri	sheet during night time. Provide Furavet Powder @ 1g/ 2 lit of drinking water
	and Vimeral @ 5 ml per lit of water. Provide external heat source such as
	"Meifu"/ chulhas or bulb.
	Litter must be stirred frequently and aired every day.
Coccidios	
Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
 Vaccination 	
	Enterotoxaemia, etc. this must be done during this month.
	• Take adequate care to prevent occurrence of Mastitis.
. D	• PPR immunization must be done once in every three years.
De-wormi	<u> </u>
Management	
- C :1: 1	• Increase energy feed by 5%.
• Coccidial	\ \(\frac{1}{2}\)
• De-wornin	
Vaccination	
Skin disea	
Vaccination	
ng	• 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.
Dewormin	30ml for 100 kg body weight.
• Care & M	 Avoid the cattle from chiting/biting by Flies. Adopt tick control measures
	Adequate care must be ensured for prevention of mastitis for the milch



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

23rd January, 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 24th to 28th January, 2018 as below:

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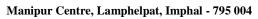
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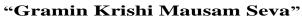
Weather forecast for next five days of Tamenglong (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. 22-23 $^{\circ}$ C & minimum temp. 4-5 $^{\circ}$ C and relative humidity may reach up to 100% (max RH) & 34% (min RH). The average wind speed may be 2-3 km/hr.

Field Crops			,
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RC Maniphou 12 (90-105 days). - Prepare700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Aphid Downy mildew,	Insecticide sprays must be given during afternoon hours only. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
		Powdery mildew, white rust & Alternaria blight	- Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)	fruiting	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation		- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth.
	tuber formation	Cut worm	Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			Watatinon 170 on the wans of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		- Flower during 1 st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Land preparation and sowing		Prepare land for sowing bhindi.









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Training erri	sheet during night time. Provide Furavet Powder @ 1g/ 2 lit of drinking water
	and Vimeral @ 5 ml per lit of water. Provide external heat source such as
	"Meifu"/ chulhas or bulb.
	Litter must be stirred frequently and aired every day.
Coccidios	
Parasitic	• Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.
 Vaccination 	
	Enterotoxaemia, etc. this must be done during this month.
	• Take adequate care to prevent occurrence of Mastitis.
. D	• PPR immunization must be done once in every three years.
De-wormi	<u> </u>
Management	
- C :1: 1	• Increase energy feed by 5%.
• Coccidial	\ \(\frac{1}{2}\)
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Vaccination	
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ng	• 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.
Dewormin	30ml for 100 kg body weight.
• Care & M	 Avoid the cattle from chiting/biting by Flies. Adopt tick control measures
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Thoubal

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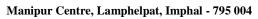
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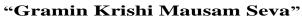
Weather forecast for next five days of Thoubal (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. 25-26 $^{\circ}$ C & minimum temp. 7-8 $^{\circ}$ C and relative humidity may reach up to 100% (max RH) & 34% (min RH). The average wind speed may be 0-4 km/hr.

Field Crops		ı	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare700-800 m² area of rice nursery for transplanting of one hectare area Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Aphid Downy mildew,	- Insecticide sprays must be given during afternoon hours only For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
		Powdery mildew, white rust & Alternaria blight	- Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)	fruiting	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation		- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth.
	tuber formation	Cut worm	Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
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Mango	Flowering		- Flower during 1 st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
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	"Meifu"/ chulhas or bulb.
	Litter must be stirred frequently and aired every day.
Coccidios	
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"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

23rd January, 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 24th to 28th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd January, 2018)

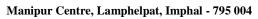
Observed mainly clear sky but partly cloudy during morning hours of 20^{th} Jan with **no** rainfall during past four days. Maximum temperature range of 23.9 to 24.2 °C and minimum temperature range of 6.2 to 7.2 °C with mean relative humidity 87 % max and 47 % min was recorded in the past four days.

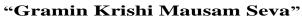
Weather forecast for next five days of Ukhrul (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. $22\text{-}23~^{\circ}\text{C}$ & minimum temp. $4\text{-}5~^{\circ}\text{C}$ and relative humidity may reach up to 99% (max RH) & 41% (min RH). The average wind speed may be 3-4~km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RC Maniphou 12 (90-105 days). - Prepare 700-800 m² area of rice nursery for transplanting of one hectare area. - Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Aphid Downy mildew, Powdery mildew, white rust & Alternaria blight	 Insecticide sprays must be given during afternoon hours only. For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once. Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting	Thermana origin	- Retain early pods of selected plants for seeds.
Lentil/ Blackgram (late variety)	Flowering to fruiting	Aphid Powdery mildew & rust	 For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation	Cut worm	- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth. Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		 Flower during 1st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Land preparation and sowing		Prepare land for sowing bhindi.









Animal Sciences Name of bird animal	Cucurbits Nurser		ng	- Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch
Sugar Baby, Madhavi-10, Madhuri and NS 295.				and trays under polyhouse/ poly-tunnel.
Protect animals birds from cold. Cover the wall with hessian cloth/polythene sheet during night time. Provide external heat source such as "Neight" clothene.				
Cole crops Nursery raising Nursery raising Nursery raising Nursery for late crops may be raised.	Onion	Vegetative to	bulb	
Initiation	Ollion		outo	
Nursery to transplanting				
Stage Disease and Management	Cole crops	Nursery raisin	ng	- Nursery for late crops may be raised.
Animal Sciences	Tomato			
Animal Sciences Name of bird/ animal Poultry (Chicken/ Duck) Sheep/ Goat All age groups Al		transplanting		
Ranimal Sciences Stage Disease and Management				area, keep the bed covered with gunny bag for at least 24 hrs.
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Poultry (Chicken/Duck)			Digagga and	A ano motocrological advisories
Protect animals/ birds from cold. Cover the wall with hessian cloth/ polythene sheet during night time. Provide Furavet Powder @ 1g/ 2 lit of drinking water and Vimeral @ 5 ml per lit of water. Provide external heat source such as "Mcifu" / chulhas or bulb. Coccidiosis • Coccidiosis • Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days. Sheep/ Goat Parasitic • Vaccination • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Give Ambrolium @ 1 gm/ litre of drinking water for 5-7 days. • Fit the animals have not been vaccinated against F.M.D., B.Q., H.S., Enterotoxaemia, etc. this must be done once in every three years. • De-worming • Administer Tolzan-F @ 2.5ml orally 50kg b. wt. • Avoid dampness to protect from Pneumonia. • Increase energy feed by 5%. • Ofloxacine/ Ornidazole (O2) tab twice daily for 5 days. • De-worming • De-worm with Albendazole @ 7.5 mg/kg b.wt. • De-worm with Albendazole @ 7.5 mg/kg b.wt. • Ofloxacine/ Ornidazole Go2, 5mg/kg b.wt. • Ofloxacine		Stage		Agro-meteorological advisories
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Duck Fig. All age groups All age groups Pig All age groups All age groups Cattle All age groups All age groups Cattle All age groups All age groups Occidial infection O		i in age groups	Winnagement	
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Parasitic Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.				
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Enterotoxaemia, etc. this must be done during this month. • Take adequate care to prevent occurrence of Mastitis. • PPR immunization must be done once in every three years. • De-worming • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. • Management • Avoid dampness to protect from Pneumonia. • Increase energy feed by 5%. • Coccidial infection • De-worming • De-worm with Albendazole @7.5 mg/kg b.wt. • Vaccination • Vaccinate against FMD and Swine Fever. • Skin disease • Sprayer of Anti-Psoroptic may be used • 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. • De-worming • De-worm with Albomacs suspension @60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies. Adopt tick control measures • Adequate care must be ensured for prevention of mastitis for the milch			Parasitic	
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

23rd January, 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 24th to 28th January, 2018 as below:

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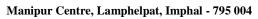
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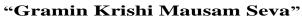
Weather forecast for next five days of Imphal East (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. $24\text{-}25~^{\circ}$ C & minimum temp. $6\text{-}7~^{\circ}$ C and relative humidity may reach up to 100% (max RH) & 28% (min RH). The average wind speed may be 2-3 km/hr.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Coccidiosis Give Amprolium @ 1 gm/ litre of drinking water for 5-7 days.	2 (1011)			
Parasitic Give Albendazole liquid @ 40 ml for 100 birds once only and half dose by next day is suggested.				
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Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN

23rd January, 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 24th to 28th January, 2018 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (19th to 22nd January, 2018)

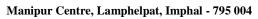
Observed mainly clear sky but partly cloudy during morning hours of 20^{th} Jan with **no** rainfall during past four days. Maximum temperature range of 23.9 to 24.2 °C and minimum temperature range of 6.2 to 7.2 °C with mean relative humidity 87 % max and 47 % min was recorded in the past four days.

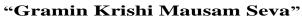
Weather forecast for next five days of Imphal West (24th to 28th January, 2018)

Likely to have no rainfall and clear sky upto Sunday. The maximum temp. $24\text{-}25~^{\circ}$ C & minimum temp. $6\text{-}7~^{\circ}$ C and relative humidity may reach up to 100% (max RH) & 35% (min RH). The average wind speed may be 0-2 km/hr.

Field Crops		ı	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-kharif Rice	Seed collection and land preparation for nursery		- Use quality seeds of pre-kharif rice for sowing. Recommended variety: RCM 13 (90-105 days) or RCM 7 (110-120 days) - Prepare700-800 m² area of rice nursery for transplanting of one hectare area Seed rate-transplanted crops: 50-60 kg /ha or broadcast (puddle field): 65-70 kg/ha or line planting: 30-40 kg/ha
Rapeseed/ Mustard	Flowering to fruiting	Aphid Downy mildew,	- Insecticide sprays must be given during afternoon hours only For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used. If the infestation is severe, then spray a systemic insecticide i.e. dimethoate once.
		Powdery mildew, white rust & Alternaria blight	- Spray Garlic Bulb Extract (ST) @ 1% or Trichoderma harzianum.
Field Pea	Flowering to fruiting		- Retain early pods of selected plants for seeds.
Lentil/ Blackgram	Flowering to	Aphid	- For organic control against aphid, sprays that consist of Azadirachtin, neem oil or Pyrethrin may be used.
(late variety)	fruiting	Powdery mildew & rust	Spray Neem Seed Kernel Extract at 5% concentration for powdery mildew and nimbicidin (0.3%) to control rust disease.
Rabi Maize	Vegetative		- Light irrigation may be given to keep soil moist if the soil is dry.
Potato	Vegetative to tuber formation		- Give light irrigation if the soil is dry. Ensure that the soil loose enough for better tuber growth.
	tuber formation	Cut worm	Spray Carbaryl @ 30ml/ 15 litre of water against cut worm.
Seeds storage	Post harvest management		For seed purpose store the seeds in <i>RC-seed bins</i> after proper drying and cleaning of seeds along with dry charcoal at 80:20. Check for moisture content or weight of charcoal and dry if required. For grains, store grains in well ventilated godowns after drying proper. Spray Malathion 1% on the walls of stores.
Horticulture Crops			Watatinon 170 on the wans of stores.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Mango	Flowering		- Flower during 1 st year of planting may be removed as it may suppress its corresponding growth that is essential in building up the young trees. - To protect from mango hopper, spray 800ml Malathion 50 EC or 700ml of Thiodan in 250 litres of water. - Paint the trunk of tree with Bordeaux paste (1:1:100) upto a height of 4-5 feet above the ground as prophylactic measure against diseases.
French bean	Land preparation and sowing		- Sowing of French bean may be done in prepared land. Seed rate for dwarf varieties like Pant Anupam & Arka Komal is 65kg/ha (spacing is 30x45 cm from seed to seed and row to row) and 25-30kg/ha for pole-type (spacing is 60x60cm with 2-3 seeds per hill). - Give light irrigation after 2-3 days of sowing.
Bhindi	Land preparation and sowing		Prepare land for sowing bhindi.









Animal Sciences Name of bird animal	Cucurbits Nurser		ng	- Raise cucurbits like water-melon, cucumber, sponge gourd, etc. in poly-pouch
Sugar Baby, Madhavi-10, Madhuri and NS 295.				and trays under polyhouse/ poly-tunnel.
Protect animals birds from cold. Cover the wall with hessian cloth/polythene sheet during night time. Provide external heat source such as "Neight" clothene.				
Cole crops Nursery raising Nursery raising Nursery raising Nursery for late crops may be raised.	Onion	Vegetative to	bulb	
Initiation	Ollion		outo	
Nursery to transplanting				
Stage Disease and Management	Cole crops	Nursery raisin	ng	- Nursery for late crops may be raised.
Animal Sciences	Tomato			
Animal Sciences Name of bird/ animal Poultry (Chicken/ Duck) Sheep/ Goat All age groups Al		transplanting		
Ranimal Sciences Stage Disease and Management				area, keep the bed covered with gunny bag for at least 24 hrs.
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• De-worming • Administer Tolzan-F @ 2.5ml orally/ 50kg b. wt. • Management • Coccidial infection • Ofloxacine/ Ornidazole (O ₂) tab twice daily for 5 days. • De-worming • De-worm with Albendazole @7.5 mg/kg b.wt. • Vaccinate against FMD and Swine Fever. • Sprayer of Anti-Psoroptic may be used • 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. • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mastitis • Adequate care must be ensured for prevention of mastitis for the milch				
• Management • Avoid dampness to protect from Pneumonia. • Increase energy feed by 5%. Pig All age groups except the young ones • De-worming • Vaccinate against FMD and Swine Fever. • Skin disease • Vaccinate against FMD and Swine Fever. • Skin disease • 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. • De-worm with Albomac suspension@60-90ml for 300kg body weight or 20-30ml for 100 kg body weight. • Care & Management • Mixture of mineral/ salts should be added in the feed. • Avoid the cattle from chiting/biting by Flies. Adopt tick control measures Mastitis • Adequate care must be ensured for prevention of mastitis for the milch			. D	
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