



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Imphal-East

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Imphal - East (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 25.0 – 29.0 °C & minimum temp. 13.0 – 14.0 °C. Relative humidity may reach upto 100 % (max RH) & 87 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none">- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield.- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt.- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.- Proper light is to be provided for layers. No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	<ul style="list-style-type: none">Remove aquatic weeds.Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	<ul style="list-style-type: none">Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	<ul style="list-style-type: none">- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Imphal-West

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Imphal - West (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 25.0 – 29.0 °C & minimum temp. 13.0 – 14.0 °C. Relative humidity may reach upto 100 % (max RH) & 87 % (min RH). The average wind speed may be 2 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval. - Proper light is to be provided for layers. No light for grower groups. - Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Senapati

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Senapati (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 20.0 – 24.0 °C & minimum temp. 8.0 – 11.0 °C. Relative humidity may reach upto 99 % (max RH) & 77 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.
Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none"> - Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval. - Proper light is to be provided for layers. No light for grower groups. - Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Tamenglong

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Tamenglong (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 23.0 – 28.0 °C & minimum temp. 10.0 – 14.0 °C. Relative humidity may reach upto 100 % (max RH) & 68 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none">- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield.- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt.- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.- Proper light is to be provided for layers. No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	<ul style="list-style-type: none">Remove aquatic weeds.Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	<ul style="list-style-type: none">Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	<ul style="list-style-type: none">- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Thoubal

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Thoubal (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 23.0 – 27.0 °C & minimum temp. 9.0 – 13.0 °C. Relative humidity may reach upto 100 % (max RH) & 91 % (min RH). The average wind speed may be 0-2 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none">- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield.- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt.- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.- Proper light is to be provided for layers. No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	<ul style="list-style-type: none">Remove aquatic weeds.Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	<ul style="list-style-type: none">Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	<ul style="list-style-type: none">- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Ukhrul

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Ukhrul (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 20.0 – 24.0 °C & minimum temp. 8.0 – 11.0 °C. Relative humidity may reach upto 99 % (max RH) & 75 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		<p>Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease.</p> <p>Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.</p>
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.
Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none"> - Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval. - Proper light is to be provided for layers. No light for grower groups. - Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Bishnupur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Bishnupur (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 23.0 – 27.0 °C & minimum temp. 13.0 – 15.0 °C. Relative humidity may reach upto 100 % (max RH) & 81 % (min RH). The average wind speed may be 2-6 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none">- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield.- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt.- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.- Proper light is to be provided for layers. No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	<ul style="list-style-type: none">Remove aquatic weeds.Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	<ul style="list-style-type: none">Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	<ul style="list-style-type: none">- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Chandel

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Chandel (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 22.0 – 26.0 °C & minimum temp. 11.0 – 13.0 °C. Relative humidity may reach upto 99 % (max RH) & 84 % (min RH). The average wind speed may be 2-3 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		<ul style="list-style-type: none">- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield.- Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt.- 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	<ul style="list-style-type: none">- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval.- Proper light is to be provided for layers. No light for grower groups.- Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamisole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	<ul style="list-style-type: none">Remove aquatic weeds.Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5.Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	<ul style="list-style-type: none">Provide feed 2 times @ 5 % body weight per day.Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	<ul style="list-style-type: none">- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

MANIPUR BULLETIN

30th October, 2015

Churachandpur

IAAS, ICAR-RC Manipur Centre in association with India Meteorological Department, Regional Meteorological Centre, Guwahati and Northern Hemisphere Analysis Centre, New Delhi, Ministry of Earth Science, Govt. of India reports the weather forecasts for the next five days, i.e., from 31st October to 4th November, 2015 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (27th to 29th October, 2015)

During last three days sky was to mainly clear to partly cloudy but mainly cloudy during afternoon hours of 28th & 29th Oct. No rainfall was recorded during last three days. Maximum temperature range observed was 27.3 – 28.7 °C, range of minimum temperature observed was 14.3 – 15.6 °C, mean relative humidity observed in morning and afternoon were 84.33 % and 57.66 % respectively. The average wind speed range was 1.1 – 2.3 km/hr.

Weather forecast for next five days of Churachandpur (31st October to 4th November, 2015)

There may be light rain on Sunday. Sky will remain mainly clear to partly cloudy with maximum temp. of 22.0 – 26.0 °C & minimum temp. 10.0 – 13.0 °C. Relative humidity may reach upto 100 % (max RH) & 71 % (min RH). The average wind speed may be 2-4 km/ hr during next five days. The Wind direction may north easterly to south easterly during next five days.

Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Field Crops			
Kharif Rice	Maturity to harvesting		<ul style="list-style-type: none"> - For crops at maturity stage, drain out water from the crop field 10-15 days before the expected date of harvesting. - Harvest rice before Sunday if 80 % of the spikelet is yellow & facility for threshing is available as there is likely to have light rain. - Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.
		False Smut	Spray Copper fungicide (Blitox 0.3%).
Soybean/ Groundnut	Maturity to harvesting		For seed purpose, bundling should be done after harvesting and kept it for 3-4 days to increase maturity. Thresh after 7-10 days of drying. Grain should be fully sundried to (10-12) % moisture for soybean and for groundnut pods should not have more than 5-8 % moisture. Frequent drying is suggested.
Potato	Land preparation		<ul style="list-style-type: none"> - Land preparation for planting potato may be started. - Proper drying of soil will be helpful to prevent cut worms. - Collect seed tubers from reliable source and treated it with Sixer (Carbendazim + Mencozeb) @ 2 gm/lit of water or Carbaryl 50 WP or Ridomil @ 2 gm/kg seed/ tubers for 20 minutes and let it dry in shed before planting as preventive measure against soil borne diseases.
Storage (seed)			- Clean and store the seeds in RC-seed bins after proper drying of the desiccant charcoal. Check for moisture content or weight of seeds. For grains, store in well ventilated godowns with regular check for moisture.
Horticulture Crops			
Onion	Nursery		Sowing of onion may be done. Treat seeds with Captan or Thiram @ 2-3g/ kg seeds to prevent fungal disease. Sow seeds evenly in the nursery bed to avoid overcrowding. Cover the seeds with fine soil & FYM and dried paddy straw/ gunny bag. Keep it moist till the seeds germinate.
Garden pea	Sowing/ Land preparation		Sowing of Garden pea may be done at a spacing of 10cm x 20cm. Before sowing treat seeds with Rhizobium leguminosarum, jiggery or gur solution so that the seeds are soaked well or follow soil inoculation with phosphobacterium. Maintain the depth of sowing to 2-3cm.
Cabbage	Transplanting (26-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 46 kg Urea in two splits dose after 20-40 days of transplanting.
Cauliflower	Transplanting (25-30 days old seedlings)		- Apply 50 kg DAP, 25kg MOP and 10 cart loads of FYM/ sangam as basal dose followed by 50 kg urea in two splits dose during 20-40 days after transplanting for main season crops.



**ICAR Research Complex for N.E.H. Region
Manipur Centre, Lamphelpat, Imphal - 795 004**



“Gramin Krishi Mausam Seva”

Tree Bean	Pre-bearing and bearing trees		- Apply 60g DAP+ 10g MOP + 20g Tracel (micronutrient mixture) to pre-bearing and bearing trees before flowering for better yield. - Spray Carbendazim @ 2g/ lit water to moist the soil to a depth of 1 ft. to prevent Verticillium wilt. - 20g Carbofuran 3G/ plant may also be in-corporated as prophylactic measure against bark borer/ termites.
Animal Sciences			
Name of the animal	Growth stage	Disease/ infestation	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	- Deworm with Albendazole liquid @ 30 to 40 ml for 100 birds once only and repeat with half dose after 7 days. Also, deworm at every 3 weeks interval. - Proper light is to be provided for layers. No light for grower groups. - Start keeping new batch chicks in case of layer variety.
		Vaccination for Fowl pox	-Vaccine has to be given for Fowl pox.
Sheep/ Goat	Above 3 months of age	Deworming	- Give Ranizole suspension @ 3ml/ 10 kg body weight
Pig	All age groups	Management	- Keep sheds dry.
		Deworming	Give Morantel citrate tab. (Banminth) @ 15mg/kg body weight.
		Ectoparasites (skin infestation)	Add Butox @ 2ml/lit of water and brush with the solution twice every fortnightly.
Cattle / Buffalo/ Mithun	Above 3 months of age (as and when required)	Deworming	Give Rafoxamide plus Levamizole (Rafox plus)/ Ranizole suspension @ 1ml/ 2kg body weight or 5.5ml/ 10 kg body weight (Ranizole) in lower altitude.
		Ectoparasitic infestation	Butox liquid @ 2 ml. in 1 litre of water and brush using the solution twice a week
		Black Quarter/ Black leg disease	Vaccinate with B.Q & H.S. vaccine for all the animals of above 3 months
Fishery:			
Type of Farming	Stage	Management	Agro-metrological advisories
Carp culture	Nurseries/ grow-out	Pond and water	Remove aquatic weeds. Maintain minimum depth of 1.0 - 1.5 m and pH at 7.0 – 7.5. Apply Lime @ 25-30kg/ ha every month or broadcast Green AQ @ 2 litre/ha by mixing with water.
		Feed	Provide feed 2 times @ 5 % body weight per day. Provide good feed having 30% crude protein fortified with vitamins and mineral.
		Fish	- Sampling of fish for growth, diseased fish should be done regularly by netting.

SMS:

Nongmaijingda nong khara chuba yaba leibana khaoba yaba phou leirabadi nong chudringei mamangda khaobiya. Hawaii tharak thadringei mamangda maruda Rhizobium leguminosarum totpiyu natraga leibakta phosphobacterium happiyu.

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