

Manipur Centre, Lamphelpat, Imphal - 795 004





MANIPUR BULLETIN 23rd February, 2017

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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of 17^{th} & 18^{th} Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

Weather forecast for next five days of Churachandpur $(24^{th}$ to 28^{th} February, 2017)

Likely to have no rain and sky clear with maximum temp. $26-28\,^{\circ}$ C & minimum temp. $11\text{-}13\,^{\circ}$ C. Relative humidity may reach up to 74 % (max RH) & 13 % (min RH). The average wind speed may be 4-6 km/hr. Wind direction may be South South-Easterly during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-Kharif rice	Nursery to transplanting		- Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m ² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °CTransplant the seedling at 20-25 days after sowing.
Potato	Maturity to harvesting		 Cut the haulm at ground level. Ensure no re-growth of the stem. Harvest the crop when the skin of the tuber has become firm. Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops	.		1 0
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. - Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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"Gramin Krishi Mausam Seva"

			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
	formation		
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal			T
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)			- Poultry farming of layer type birds can be started now.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds.
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
		Deworming	3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers). ➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
		Deworming	day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
	excepts the young	Management	pneumonia.
	ones	Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	> De-worming of animals should be done using Abendazole/ Levamisole @7.5
		De-worming	mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
D'	All age groups	Care and	Mineral mixture be added in feed @10-20 g/adult animal.
Pig	except the young	management	> Treat drinking water with potassium permanganate/ sanitizer.
	ones		> Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
			sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	All age groups		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
Cattle	excepts the young	B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
	ones	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	01103	Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
			cultivation.



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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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of $17^{th}~\&~18^{th}$ Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

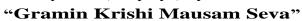
Weather forecast for next five days of Ukhrul (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $25-27\,^{\circ}$ C & minimum temp. $9-11\,^{\circ}$ C. Relative humidity may reach up to 92 % (max RH) & 14 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly on 25^{th} then South Westerly thereafter during next five days.

Field Crops	Ctoro	Doct and discoss	A and motografical admission
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories - Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/ 700
	Nursery to		m ² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds.
Pre-Kharif rice	transplanting		- Soaking and incubation of seeds may be started before sowing when minimum
			temperature reaches 10-12 °C.
			-Transplant the seedling at 20-25 days after sowing.
			- Cut the haulm at ground level. Ensure no re-growth of the stem.
Potato	Maturity to		- Harvest the crop when the skin of the tuber has become firm.
1 otato	harvesting		- Harvest should be done on sunny day only. Heap the produce in the shade for
			curing of skin and left undisturbed for 15-20 days.
	Maturity to		- Harvest the crops when the color of leaves, stem & siliqua is pale green to
Rapeseed/	harvesting		yellow, seeds are dark and produce rattling sound on shaking and 75% of the
Mustard			siliquae mature. It must be harvested during morning before drying of dew to
112000000			avoid shattering f pods.
	Maturity to		 Harvest mature crops before rains to avoid loss and attain quality yield. Well filled and disease free pods may be harvested for seeds for next season.
Pulses	_		- well filled and disease free pods may be narvested for seeds for next season.
	harvesting		- Earthing-up of rabi maize sown intercropped with pea or potato may be done
	Vegetative		and apply irrigation at an interval of 10-15 days to maintain moisture status.
	Vegetative		- When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-
Rabi maize			culture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan
			3G at maize whorl.
	Post harvest		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			weight of seeds.
			- After proper drying, store grains in well ventilated godowns. Spray Malathion
			1% in godowns.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Nursery raising to		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost
G 114	land preparation		polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1
Cucurbits	for transplanting		incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered
	in open field		with polythene sheet till the seeds sprout.
			- Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
D11 11	Corring		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and
Bhindi	Sowing		25kg MOP per sangam at final stage of land preparation before sowing.
			Recommended varieties are - Arka Anamika and Pusa Sawani
	Nursery to land		- Raise nursery.
Brinjal/ chilli	preparation for		- Land preparation for transplanting of brinjal/chilli may be done.
Dinjar ciiii	transplanting		Zame proparation for transplanting of ornigan chini may be done.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	Transplanting to		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
Tomato	vegetative		during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of
	3 · · · · · ·		transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching
			powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting.
			- A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
	formation		
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)		D 111 - 11	- Poultry farming of layer type birds can be started now.
•		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
		Deworming	day with half the dose at regular interval of 3 weeks.
~	All age groups	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
Sheep/ Goat	excepts the young ones	Management	pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	> De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the young	Care and	Mineral mixture be added in feed @10-20 g/adult animal.
<u> </u>	ones	management	> Treat drinking water with potassium permanganate/ sanitizer.
			> Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
		Mites infestation	sheds > Spray with Skin Heal Spray in sufficient quantity.
		Deworming	Spray with Skin Heat Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.
		Deworming	 Give Piperazine riquid & 10-13th orany once only. If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
Cattle	All age groups	B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
Cattle	excepts the young	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	ones	Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
		1 odder cultivation	cultivation.
	1		cuiti tution.



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Tamenglong

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Weather forecast for next five days of Tamenglong (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $25-27\,^{\circ}$ C & minimum temp. 10- $12\,^{\circ}$ C. Relative humidity may reach up to 75 % (max RH) & 14 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North East Easterly on 25^{th} then South Easterly thereafter during next five days.

Field Crops	Ctore	Dogt and discoss	A one meteoral estad estades
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories - Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/ 700
	Nursery to		m ² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds.
Pre-Kharif rice	transplanting		- Soaking and incubation of seeds may be started before sowing when minimum
			temperature reaches 10-12 °C.
			-Transplant the seedling at 20-25 days after sowing.
			- Cut the haulm at ground level. Ensure no re-growth of the stem.
Potato	Maturity to		- Harvest the crop when the skin of the tuber has become firm.
Totato	harvesting		- Harvest should be done on sunny day only. Heap the produce in the shade for
			curing of skin and left undisturbed for 15-20 days.
	Maturity to		- Harvest the crops when the color of leaves, stem & siliqua is pale green to
Rapeseed/	harvesting		yellow, seeds are dark and produce rattling sound on shaking and 75% of the
Mustard			siliquae mature. It must be harvested during morning before drying of dew to
112000000			avoid shattering f pods.
	Matanitanta		 Harvest mature crops before rains to avoid loss and attain quality yield. Well filled and disease free pods may be harvested for seeds for next season.
Pulses	Maturity to		- well filled and disease free pods may be narvested for seeds for next season.
	harvesting		- Earthing-up of rabi maize sown intercropped with pea or potato may be done
	Vegetative		and apply irrigation at an interval of 10-15 days to maintain moisture status.
	Vegetative		- When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-
Rabi maize			culture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan
			3G at maize whorl.
	Post harvest		- For seed purpose dry, clean and store the seeds in RC-seed bins after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			weight of seeds.
			- After proper drying, store grains in well ventilated godowns. Spray Malathion
			1% in <i>godowns</i> .
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Nursery raising to		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost
~	land preparation		polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1
Cucurbits	for transplanting		incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered
	in open field		with polythene sheet till the seeds sprout.
			- Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
	Ci		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger
Bhindi	Sowing		may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing.
			Recommended varieties are - Arka Anamika and Pusa Sawani
	Nursery to land		- Raise nursery.
Brinjal/ chilli	preparation for		- Land preparation for transplanting of brinjal/chilli may be done.
Dinjar ciiii	transplanting		Zano proparation for transplanting of ornigal chili may be done.
			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	Transplanting to		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
Tomato	vegetative		during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of
			transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching
			powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting.
			- A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)			- Poultry farming of layer type birds can be started now.
Turkey/ Duck)		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds.
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
	A 11	3.6	day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
•	excepts the young ones	Danasanalasa	pneumonia. New born but not yet been dewormed should be given deworming agent.
	ones	Deworming	New born but not yet been dewormed should be given deworming agent.
	A 11	De-worming	De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
D! ~	All age groups	Care and	➤ Mineral mixture be added in feed @10-20 g/adult animal.
Pig	except the young ones	management	> Treat drinking water with potassium permanganate/ sanitizer.
	ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
			sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	All age groups		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
Cattle	excepts the young	B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
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	01100	Mastitis	Animals should be milked completely.
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Thoubal

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Weather forecast for next five days of Thoubal (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. 27-29 °C & minimum temp. 11-13 °C. Relative humidity may reach up to 76 % (max RH) & 13 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be South South-Easterly to South West-Westerly during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
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Potato	Maturity to harvesting		 - Cut the haulm at ground level. Ensure no re-growth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative		 Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Seeds storage	Post harvest management		 - For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. - After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops	•		
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		 Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching



Manipur Centre, Lamphelpat, Imphal - 795 004





"Gramin Krishi Mausam Seva"

Garden pea/ Broad bean Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal Name of bird/ animal	Fruiting to harvesting Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage All age groups	powdery mildew and yellow rust Leaf minor Plutella, Daimond Black Moth	powder may also be applied @ 15kg/ ha to prevent bacterial wilt. - Apply 75:30:60 kg of NPK/ ha at the time of transplanting. - A light irrigation should be given just after transplanting - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area. Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture. - For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases. Agro-meteorological advisories
Broad bean Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	harvesting Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage	and yellow rust Leaf minor Plutella, Daimond Black Moth Disease and	 - A light irrigation should be given just after transplanting - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area. Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture. - For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Broad bean Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	harvesting Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage	and yellow rust Leaf minor Plutella, Daimond Black Moth Disease and	 - Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area. Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture. - For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Broad bean Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	harvesting Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage	and yellow rust Leaf minor Plutella, Daimond Black Moth Disease and	rust especially to the crops grown in moist/ shady area. Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Broad bean Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	harvesting Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage	Leaf minor Plutella, Daimond Black Moth Disease and	rust especially to the crops grown in moist/ shady area. Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Onion/ Garlic Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	Vegetative to bulb formation Head formation and harvesting Vegetative to flowering and late sowing Stage	Plutella, Daimond Black Moth	Spray Dichlorovos @ 1ml/ litre of water. Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Cabbage/ Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	formation Head formation and harvesting Vegetative to flowering and late sowing Stage	Plutella, Daimond Black Moth	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Cauliflower/ Broccoli Coriander Animal Sciences Name of the animal	Vegetative to flowering and late sowing	Black Moth Disease and	depending upon the severity of the infestation. - Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Broccoli Coriander Animal Sciences Name of the animal	Vegetative to flowering and late sowing Stage	Disease and	- Light watering may be done to maintain soil moisture For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Coriander Animal Sciences Name of the animal	flowering and late sowing Stage		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Coriander Animal Sciences Name of the animal	flowering and late sowing Stage		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Animal Sciences Name of the animal	flowering and late sowing Stage		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Animal Sciences Name of the animal	sowing Stage		to protect against soil borne diseases.
Name of the animal	Stage		
Name of the animal			Agro-meteorological advicaries
			Agra-meteorological advisaries
Trume of bridge unimal			
	All age groups	Management	inglo ineccorological advisories
		Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
		Ü	- Adequate measures must be taken up to protect birds from wet weather and
			drop in temperature if sudden rainfall occurs.
Poultry (Chicken/			- Poultry farming of layer type birds can be started now.
Turkey/ Duck)		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds.
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
		Deworming	day with half the dose at regular interval of 3 weeks.
	All age groups	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
Sheep/ Goat	excepts the young ones	Wanagement	pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
	ones	Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
			mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
P	All age groups	Care and	➤ Mineral mixture be added in feed @10-20 g/adult animal.
Pig	except the young	management	> Treat drinking water with potassium permanganate/ sanitizer.
	ones		> Provide ample ventilation in the shed/dry bedding. Avoid dampness in
			sheds
		Mites infestation	> Spray with Skin Heal Spray in sufficient quantity.
			➤ Give Piperazine liquid @ 10-15ml orally once only.
	A 11	Ŭ	
Cattle		B.Q./ H.S/FMD	
	ones		
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
		1 Jagor Carrivation	cultivation.
Cattle	All age groups excepts the young ones	B.Q./ H.S/FMD Ectoparasites Mastitis Fodder cultivation	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely.



Manipur Centre, Lamphelpat, Imphal - 795 004

"Gramin Krishi Mausam Seva"



MANIPUR BULLETIN 23rd February, 2017

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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of $17^{th}~\&~18^{th}$ Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

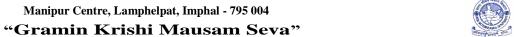
Weather forecast for next five days of Ukhrul (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $25-27\,^{\circ}\,\mathrm{C}$ & minimum temp. $8\text{-}10\,^{\circ}\,\mathrm{C}$. Relative humidity may reach up to 69 % (max RH) & 18 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be South westerly upto 24^{th} then North West Westerly thereafter during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-Kharif rice	Nursery to transplanting		 Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds. Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C. Transplant the seedling at 20-25 days after sowing.
Potato	Maturity to harvesting		 Cut the haulm at ground level. Ensure no re-growth of the stem. Harvest the crop when the skin of the tuber has become firm. Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative	Stem borer	 Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation. To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. - Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt.









			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting.
			- A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)			- Poultry farming of layer type birds can be started now.
		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds.
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
		D '	3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
	All aga groups	Management	day with half the dose at regular interval of 3 weeks. - Avoid keeping animals in a damp area; provide warmth to prevent from
Sheep/ Goat	All age groups excepts the young ones	Management	pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
	ones	Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	> De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All aga amauma	_	mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	All age groups except the young	Care and	➤ Mineral mixture be added in feed @10-20 g/adult animal.
rig	ones	management	Treat drinking water with potassium permanganate/ sanitizer.
	ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
			sheds
		Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
	All age groups		➤ If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
Cattle	excepts the young	B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
	ones	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
			cultivation.



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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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of $17^{th}~\&~18^{th}$ Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

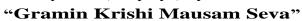
Weather forecast for next five days of Imphal East (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $25-27\,^{\circ}$ C & minimum temp. $9-11\,^{\circ}$ C. Relative humidity may reach up to 94 % (max RH) & 13 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly on 24^{th} then Southerly Westerly thereafter during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-Kharif rice	Nursery to transplanting		 Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds. Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C. Transplant the seedling at 20-25 days after sowing.
Potato	Maturity to harvesting		 Cut the haulm at ground level. Ensure no re-growth of the stem. Harvest the crop when the skin of the tuber has become firm. Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative	Stem borer	 Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation. To control the infestation of stem borer, apply few granules of Carbofuradan
Seeds storage	Post harvest management		 3G at maize whorl. For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. - Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting.
			- A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
	formation		
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)		D 111 - 11	- Poultry farming of layer type birds can be started now.
• /		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds. 2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
		Deworming	day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
	excepts the young ones	- Training of the state of the	pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
		De-worming	> De-worming of animals should be done using Abendazole/ Levamisole @7.5
	All age groups		mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig	except the young	Care and	Mineral mixture be added in feed @10-20 g/adult animal.
0	ones	management	> Treat drinking water with potassium permanganate/ sanitizer.
			> Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
		Mitas infectation	sheds Spray with Skin Heal Spray in sufficient quantity.
		Mites infestation Deworming	
		Deworming	 Give Piperazine liquid @ 10-15ml orally once only. If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
Cattle	All age groups	B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
Cattle	excepts the young	Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
	ones	Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
		1 odder curryation	cultivation.
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MANIPUR BULLETIN 23rd February, 2017

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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of 17^{th} & 18^{th} Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

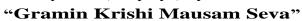
Weather forecast for next five days of Imphal West (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $25-27\,^{\circ}$ C & minimum temp. $9-11\,^{\circ}$ C. Relative humidity may reach up to 86 % (max RH) & 13 % (min RH). The average wind speed may be 2-3 km/hr. Wind direction may be North Easterly on 24^{th} then Southerly thereafter during next five days.

Field Crops	Ctore	Doct and discoss	A and motografical admirantes
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Nursery to		- Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m ² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds.
Pre-Kharif rice	transplanting		- Soaking and incubation of seeds may be started before sowing when minimum
Fre-Kharm rice	transplanting		temperature reaches 10-12 °C.
			-Transplant the seedling at 20-25 days after sowing.
			- Cut the haulm at ground level. Ensure no re-growth of the stem.
	Maturity to		- Harvest the crop when the skin of the tuber has become firm.
Potato	harvesting		- Harvest should be done on sunny day only. Heap the produce in the shade for
	nai vesting		curing of skin and left undisturbed for 15-20 days.
	Maturity to		- Harvest the crops when the color of leaves, stem & siliqua is pale green to
T) 1/	harvesting		yellow, seeds are dark and produce rattling sound on shaking and 75% of the
Rapeseed/	8		siliquae mature. It must be harvested during morning before drying of dew to
Mustard			avoid shattering f pods.
			- Harvest mature crops before rains to avoid loss and attain quality yield.
DL.	Maturity to		- Well filled and disease free pods may be harvested for seeds for next season.
Pulses	harvesting		·
			- Earthing-up of rabi maize sown intercropped with pea or potato may be done
	Vegetative		and apply irrigation at an interval of 10-15 days to maintain moisture status.
Rabi maize			- When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of inter-
Kabi iliaize			culture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan
			3G at maize whorl.
	Post harvest		- For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper
	management		drying of seeds along with charcoal at 80:20. Check for moisture content or
Seeds storage			weight of seeds.
			- After proper drying, store grains in well ventilated godowns. Spray Malathion
			1% in godowns.
Horticulture Crops		1 -	
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
	Nursery raising to		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost
G 1.4	land preparation		polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1
Cucurbits	for transplanting		incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered
	in open field		with polythene sheet till the seeds sprout.
			- Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field. Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger
Bhindi	Sowing		may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and
	Sowing		25kg MOP per sangam at final stage of land preparation before sowing.
			Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land		- Raise nursery.
	preparation for		- Land preparation for transplanting of brinjal/chilli may be done.
	transplanting		Land preparation for transplanting of ornigar enim may be dolle.
Tomato			- 25 to 30 days old tomato seedlings may be transplanted in prepared land
	Transplanting to		incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm
	vegetative		during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of
			transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching
			powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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			Apply 75:30:60 kg of NPK/ ha at the time of transplanting.A light irrigation should be given just after transplanting
Garden pea/ Broad bean	Fruiting to harvesting	powdery mildew and yellow rust	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Cabbage/ Cauliflower/ Broccoli	Head formation and harvesting	Plutella, Daimond Black Moth	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
Coriander	Vegetative to flowering and late sowing		 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.

	Sowing		to protect against son borne diseases.	
Animal Sciences				
Name of the animal				
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories	
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry. - Adequate measures must be taken up to protect birds from wet weather and drop in temperature if sudden rainfall occurs. - Poultry farming of layer type birds can be started now. 	
		Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers). 	
		Deworming	Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.	
Sheep/ Goat	All age groups excepts the young	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from pneumonia.	
	ones	Deworming	New born but not yet been dewormed should be given deworming agent.	
	All age groups except the young ones	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.	
Pig		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds 	
	All age groups excepts the young ones	Mites infestation	> Spray with Skin Heal Spray in sufficient quantity.	
Cattle		B.Q./ H.S/FMD Ectoparasites Mastitis Fodder cultivation	 Give Piperazine liquid @ 10-15ml orally once only. If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. Butox@ 2ml/lit of water at forth nightly interval. Animals should be milked completely. Fodder crops should be irrigated every 20-30 days and 20-22 days for oat cultivation. 	



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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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of $17^{th}~\&~18^{th}$ Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

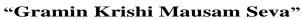
Weather forecast for next five days of Bishnupur (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $26-28\,^{\circ}$ C & minimum temp. 10- $12\,^{\circ}$ C. Relative humidity may reach up to 71 % (max RH) & 13 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be South Easterly to South-Westerly during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-Kharif rice	Nursery to transplanting		 Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds. Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °C. Transplant the seedling at 20-25 days after sowing.
Potato	Maturity to harvesting		 - Cut the haulm at ground level. Ensure no re-growth of the stem. - Harvest the crop when the skin of the tuber has become firm. - Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative	Stem borer	 Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation. To control the infestation of stem borer, apply few granules of Carbofuradan
			3G at maize whorl.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			170 m gowo 1715.
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. - Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		Raise nursery.Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching



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			powder may also be applied @ 15kg/ ha to prevent bacterial wilt.
			- Apply 75:30:60 kg of NPK/ ha at the time of transplanting.
			- A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
	Vegetative to bulb	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Onion/ Garlic	formation		
Cabbage/	Head formation	Plutella, Daimond	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval
Cauliflower/	and harvesting	Black Moth	depending upon the severity of the infestation.
Broccoli			
	Vegetative to		- Light watering may be done to maintain soil moisture.
Coriander	flowering and late		- For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended
	sowing		to protect against soil borne diseases.
Animal Sciences			
Name of the animal	T	1	
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
	All age groups	Care &	- Proper ventilation must be provided to protect from moisture inside the shed.
		management	Litter must be kept dry.
			- Adequate measures must be taken up to protect birds from wet weather and
Poultry (Chicken/			drop in temperature if sudden rainfall occurs.
Turkey/ Duck)			- Poultry farming of layer type birds can be started now.
Turkey/ Duck)		Ranikhet disease	1. F-1 Strain may be first administered within 7 days of age and second dose may
			be given at 30days for all birds.
			2. R ₂ B vaccine of 8-9 weeks of age group birds (layers).
			3. Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next
		3.5	day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups excepts the young ones	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from
-			pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
	All age groups except the young ones	De-worming	➤ De-worming of animals should be done using Abendazole/ Levamisole @7.5
			mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
Pig		Care and	➤ Mineral mixture be added in feed @10-20 g/adult animal.
		management	➤ Treat drinking water with potassium permanganate/ sanitizer.
	ones		Provide ample ventilation in the shed/ dry bedding. Avoid dampness in
			sheds
Cattle	All age groups excepts the young ones	Mites infestation	Spray with Skin Heal Spray in sufficient quantity.
		Deworming	➤ Give Piperazine liquid @ 10-15ml orally once only.
			> If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic
		B.Q./ H.S/FMD	septicaemia, Foot & Mouth Disease, etc.
		Ectoparasites	- Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat
			cultivation.



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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 24th to 28th February, 2017 as below:

Significant past weather for the preceding bi-weekly of Imphal - West (21st to 23rd morning February, 2017)

Observed mainly clear sky and shallow fog at foothills during morning hours of $17^{th}~\&~18^{th}$ Feb with no rainfall during past four days. Maximum temperature range of 21.9 to 27.7 $^{\circ}$ C and rise in minimum temperature range of 8.7 to 11.3 $^{\circ}$ C with mean relative humidity 84.0 % max and 43.3 % min was recorded in the past four days. The average wind speed range remained 3.3 to 5.6 km/hr.

Weather forecast for next five days of Chandel (24th to 28th February, 2017)

Likely to have no rain and sky clear with maximum temp. $26-28\,^{\circ}$ C & minimum temp. $11-13\,^{\circ}$ C. Relative humidity may reach up to 63 % (max RH) & 16 % (min RH). The average wind speed may be 4-5 km/hr. Wind direction may be Westerly to North West Westerly during next five days.

Field Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Pre-Kharif rice	Nursery to transplanting		- Select pure, well filled, disease free and cleaned seeds. Seed rate is 60kg/700 m ² of nursery bed. Treat seeds with Carbendazim @ 2g/kg of seeds Soaking and incubation of seeds may be started before sowing when minimum temperature reaches 10-12 °CTransplant the seedling at 20-25 days after sowing.
Potato	Maturity to harvesting		 Cut the haulm at ground level. Ensure no re-growth of the stem. Harvest the crop when the skin of the tuber has become firm. Harvest should be done on sunny day only. Heap the produce in the shade for curing of skin and left undisturbed for 15-20 days.
Rapeseed/ Mustard	Maturity to harvesting		 - Harvest the crops when the color of leaves, stem & siliqua is pale green to yellow, seeds are dark and produce rattling sound on shaking and 75% of the siliquae mature. It must be harvested during morning before drying of dew to avoid shattering f pods. - Harvest mature crops before rains to avoid loss and attain quality yield.
Pulses	Maturity to harvesting		- Well filled and disease free pods may be harvested for seeds for next season.
Rabi maize	Vegetative		- Earthing-up of rabi maize sown intercropped with pea or potato may be done and apply irrigation at an interval of 10-15 days to maintain moisture status. - When the plant is knee high apply fertilizer @ 25 kg N/ha at the time of interculture operation.
		Stem borer	- To control the infestation of stem borer, apply few granules of Carbofuradan 3G at maize whorl.
Seeds storage	Post harvest management		 For seed purpose dry, clean and store the seeds in <i>RC-seed bins</i> after proper drying of seeds along with charcoal at 80:20. Check for moisture content or weight of seeds. After proper drying, store grains in well ventilated godowns. Spray Malathion 1% in <i>godowns</i>.
Horticulture Crops			
Name of the crop	Stage	Pest and disease	Agro-meteorological advisories
Cucurbits	Nursery raising to land preparation for transplanting in open field		- Go for nursery rising in polybags (size: 8cm X 10cm) under low cost polyhouse. In the 50 kg mixture of garden soil, sand and FYM in the ratio 2:1:1 incorporate 2gm Captan 50W.P. One seed is sown per polybag and kept covered with polythene sheet till the seeds sprout. - Prepare land for transplanting 4-5 leave stage cucurbits seedlings in open field.
Bhindi	Sowing		Land preparation for sowing bhindi may be done. Sowing of bhindi/ladies finger may be done at the spacing of 30cm x 45cm. Apply 25kg urea, 33kg DAP and 25kg MOP per sangam at final stage of land preparation before sowing. Recommended varieties are - Arka Anamika and Pusa Sawani
Brinjal/ chilli	Nursery to land preparation for transplanting		- Raise nursery Land preparation for transplanting of brinjal/ chilli may be done.
Tomato	Transplanting to vegetative		- 25 to 30 days old tomato seedlings may be transplanted in prepared land incorporated with well decomposed FYM at a spacing of 40-45cm x 50-60cm during evening/ cloudy day. Apply Sevin dust @ 2.5 – 5.0 g/ hill at the time of transplanting to protect the seedlings from caterpillar/ cutworm. Bleaching powder may also be applied @ 15kg/ ha to prevent bacterial wilt.



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"Gramin Krishi Mausam Seva"

			 - Apply 75:30:60 kg of NPK/ ha at the time of transplanting. - A light irrigation should be given just after transplanting
Garden pea/	Fruiting to	powdery mildew	- Spray Bayleton @ 7 g/ 10 litres of water against powdery mildew and yellow
Broad bean	harvesting	and yellow rust	rust especially to the crops grown in moist/ shady area.
Onion/ Garlic	Vegetative to bulb formation	Leaf minor	Spray Dichlorovos @ 1ml/ litre of water.
Cabbage/ Cauliflower/ Broccoli	Head formation and harvesting	Plutella, Daimond Black Moth	Spray Dichlorovos 76 EC @ 1ml/ lit of water may be sprayed at 7 days interval depending upon the severity of the infestation.
Coriander	Vegetative to flowering and late sowing		 Light watering may be done to maintain soil moisture. For late, treat seed with Trichoderma harzianum @ 4g/kg seed is recommended to protect against soil borne diseases.
Animal Sciences			
Name of the animal			
Name of bird/ animal	Stage	Disease and Management	Agro-meteorological advisories
Poultry (Chicken/ Turkey/ Duck)	All age groups	Care & management	 - Proper ventilation must be provided to protect from moisture inside the shed. Litter must be kept dry. - Adequate measures must be taken up to protect birds from wet weather and drop in temperature if sudden rainfall occurs. - Poultry farming of layer type birds can be started now.
		Ranikhet disease	 F-1 Strain may be first administered within 7 days of age and second dose may be given at 30days for all birds. R₂B vaccine of 8-9 weeks of age group birds (layers). Killed ND virus vaccine of 16-18 weeks of age group birds (layers).
		Deworming	➤ Use Albendazole liquid @ 20-40 ml for 100 adult birds and repeat it next day with half the dose at regular interval of 3 weeks.
Sheep/ Goat	All age groups excepts the young ones	Management	- Avoid keeping animals in a damp area; provide warmth to prevent from pneumonia.
		Deworming	New born but not yet been dewormed should be given deworming agent.
Pig	All age groups except the young ones	De-worming	 De-worming of animals should be done using Abendazole/ Levamisole @7.5 mg/kg b.wt. or Ivermectin @50mg/kg b. wt.
		Care and management	 Mineral mixture be added in feed @10-20 g/adult animal. Treat drinking water with potassium permanganate/ sanitizer. Provide ample ventilation in the shed/ dry bedding. Avoid dampness in sheds
Cattle	All age groups excepts the young ones	Mites infestation Deworming	 Spray with Skin Heal Spray in sufficient quantity. Give Piperazine liquid @ 10-15ml orally once only.
		B.Q./ H.S/FMD Ectoparasites	 If not vaccinated, give vaccine for Black Quarter now, Haemorrhagic septicaemia, Foot & Mouth Disease, etc. Butox@ 2ml/lit of water at forth nightly interval.
		Mastitis	Animals should be milked completely.
		Fodder cultivation	Fodder crops should be irrigated every 20-30 days and 20-22 days for oat cultivation.