



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



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Churachandpur (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0 – 29.0 °C & minimum temp. 12.0 – 14.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Potato</b>               | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for planting potato may be started.</li> </ul>  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.</li> </ul>   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Harvest mature crops.</li> </ul>   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | <ul style="list-style-type: none"> <li>- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> </ul>  |



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|  |   |                                | <ul style="list-style-type: none"> <li>- For 25 sq m area we need ½ kg seeds.</li> <li>- check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | <ul style="list-style-type: none"> <li>- Sowing of late season crop may be done.</li> <li>- Care should be taken for the young seedlings below 20 days old.</li> </ul>   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| <ul style="list-style-type: none"> <li>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</li> <li>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</li> </ul> |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/<br>nurseries                          |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul> |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>  |

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



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**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

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**Weather forecast for next five days of Imphal-East (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 29.0 °C & minimum temp. 13.0 – 14.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Potato</b>               | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for planting potato may be started.</li> </ul>  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.</li> </ul>   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Harvest mature crops.</li> </ul>   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
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| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
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| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/<br>nurseries                          |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul> |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>  |

(I. Meghachandra Singh)  
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**ICAR Research Complex for N.E.H. Region  
Manipur Centre, Lamphelpat, Imphal - 795 004**



**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Senapati (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 25.0 – 27.0 °C & minimum temp. 10.0 – 12.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 45 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Soybean</b>              | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.</li> </ul>   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Harvest mature crops.</li> </ul>   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | <ul style="list-style-type: none"> <li>- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq m area we need ½ kg seeds.</li> </ul>  |



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



**“Integrated Agromet Advisory Services”**

|  |   |                                |  |
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|  |   |                                | - check that the new sprouts/ young plants in nursery beds are not damaged.<br>- 45-60 days old seedlings may be transplanted.   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | - Sowing of late season crop may be done.<br>- Care should be taken for the young seedlings below 20 days old.   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.<br>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/ nurseries                             |                                | - Fish harvesting can be started.<br>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.<br>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.<br>- Well balanced feed fortified with vitamins and minerals should be provided.<br>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.<br>- To stock fish for next year above practices may be done in small scale. |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | - Fish harvesting can be started.<br>- Maintained 1.0 m water depth of the trenches in paddy field.<br>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.  |

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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Tamenglong (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 27.0 – 30.0 °C & minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 44 % (minimum RH). The average wind speed may be 4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | - In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.  |
| <b>Field pea</b>            | Land preparation          |                              | - Land preparation for sowing field pea may be started.   |
| <b>Potato</b>               | Land preparation          |                              | - Land preparation for planting potato may be started.  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | Harvest mature crops.   |
| <b>Storage</b>              |                           |                              | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | - Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.  |



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Manipur Centre, Lamphelpat, Imphal - 795 004**



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|  |   |                                |  |
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|  |   |                                | <ul style="list-style-type: none"> <li>- For 25 sq m area we need ½ kg seeds.</li> <li>- check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | <ul style="list-style-type: none"> <li>- Sowing of late season crop may be done.</li> <li>- Care should be taken for the young seedlings below 20 days old.</li> </ul>   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| <ul style="list-style-type: none"> <li>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</li> <li>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</li> </ul> |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/<br>nurseries                          |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul> |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>  |

(I. Meghachandra Singh)  
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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Thoubal (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 13.0 – 15.0 °C. Relative humidity may reach a maximum of 100 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 2 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Potato</b>               | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for planting potato may be started.</li> </ul>  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.</li> </ul>   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Harvest mature crops.</li> </ul>   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | <ul style="list-style-type: none"> <li>- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> </ul>  |



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



**“Integrated Agromet Advisory Services”**

|  |   |                                |  |
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|  |   |                                | - For 25 sq m area we need ½ kg seeds.<br>- check that the new sprouts/ young plants in nursery beds are not damaged.<br>- 45-60 days old seedlings may be transplanted.   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | - Sowing of late season crop may be done.<br>- Care should be taken for the young seedlings below 20 days old.   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.<br>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/ nurseries                             |                                | - Fish harvesting can be started.<br>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.<br>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.<br>- Well balanced feed fortified with vitamins and minerals should be provided.<br>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.<br>- To stock fish for next year above practices may be done in small scale. |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | - Fish harvesting can be started.<br>- Maintained 1.0 m water depth of the trenches in paddy field.<br>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.  |

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**ICAR Research Complex for N.E.H. Region  
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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Ukhrul (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 24.0 – 26.0 °C & minimum temp. 9.0 – 11.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 49 % (minimum RH). The average wind speed may be 3-4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Soybean</b>              | Maturity to harvesting    |                              | Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | Harvest mature crops.   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | <ul style="list-style-type: none"> <li>- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> <li>- For 25 sq m area we need ½ kg seeds.</li> </ul>  |



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**“Integrated Agromet Advisory Services”**

|  |   |                                |  |
|--|---|--------------------------------|--|
|  |   |                                | - check that the new sprouts/ young plants in nursery beds are not damaged.<br>- 45-60 days old seedlings may be transplanted.   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | - Sowing of late season crop may be done.<br>- Care should be taken for the young seedlings below 20 days old.   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.<br>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/ nurseries                             |                                | - Fish harvesting can be started.<br>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.<br>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.<br>- Well balanced feed fortified with vitamins and minerals should be provided.<br>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.<br>- To stock fish for next year above practices may be done in small scale. |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | - Fish harvesting can be started.<br>- Maintained 1.0 m water depth of the trenches in paddy field.<br>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.  |

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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Bishnupur (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 13.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 47 % (minimum RH). The average wind speed may be 2-4 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | - In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.  |
| <b>Field pea</b>            | Land preparation          |                              | - Land preparation for sowing field pea may be started.   |
| <b>Potato</b>               | Land preparation          |                              | - Land preparation for planting potato may be started.  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | Harvest mature crops.   |
| <b>Storage</b>              |                           |                              | - Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spacing may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | - Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.  |



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|  |   |                                |  |
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|  |   |                                | - For 25 sq m area we need ½ kg seeds.<br>- check that the new sprouts/ young plants in nursery beds are not damaged.<br>- 45-60 days old seedlings may be transplanted.   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | - Sowing of late season crop may be done.<br>- Care should be taken for the young seedlings below 20 days old.   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| - Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.<br>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds. |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/ nurseries                             |                                | - Fish harvesting can be started.<br>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.<br>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.<br>- Well balanced feed fortified with vitamins and minerals should be provided.<br>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.<br>- To stock fish for next year above practices may be done in small scale. |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | - Fish harvesting can be started.<br>- Maintained 1.0 m water depth of the trenches in paddy field.<br>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.  |

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**“Integrated Agromet Advisory Services”**

**MANIPUR BULLETIN**

**21<sup>st</sup> October, 2014**

**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 22<sup>nd</sup> to 26<sup>th</sup> October, 2014 as given below:

**Significant past weather for the preceding bi-weekly of Imphal - West (17<sup>th</sup> to 20<sup>th</sup> October, 2014)**

During past four days sky was mainly clear to partly cloudy but mainly cloudy to cloudy from afternoon hours of 18<sup>th</sup> to morning of 19<sup>th</sup> Oct. **3.2 mm** rainfall was recorded during past four days. Maximum temperature range observed was 27.3 – 29.5 °C, range of minimum temperature observed was 16.5 – 20.0 °C, mean relative humidity observed in morning and afternoon were 91.5 % and 60.5 % respectively. The average wind speed range was 0.7 – 1.2 km/hr.

**Weather forecast for next five days of Chandel (22<sup>nd</sup> to 26<sup>th</sup> October, 2014)**

There may be no rain upto Saturday but light rain on Sunday. Sky may be mainly clear with maximum temp. of 28.0 – 30.0 °C & minimum temp. 12.0 – 15.0 °C. Relative humidity may reach a maximum of 99 % (maximum RH) & 52 % (minimum RH). The average wind speed may be 3 km/ hr during next five days.

| Name of the crop            | Stage                     | Pest and disease infestation | Agro-meteorological advisories  |
|-----------------------------|---------------------------|------------------------------|---|
| <b>Field Crops</b>          |                           |                              |   |
| <b>Kharif Rice</b>          | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Drain it out completely 10 days before harvesting.</li> <li>- Harvest rice if 80 % of the spikelet have turned yellow.</li> <li>- Stacking of the harvested panicles for 5-7 days by turning the heap of panicles can help in better threshing.</li> <li>- Harvested crop must be well threshed. Clean and sundry seeds properly before storage.</li> </ul>                    |
| <b>Rapeseed/ mustard</b>    | Sowing                    |                              | <ul style="list-style-type: none"> <li>- In foot-hills and upland area zero tillage rape seed may be sown just after harvesting rice to make full utilization of the residual moisture.</li> </ul>  |
| <b>Field pea</b>            | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for sowing field pea may be started.</li> </ul>   |
| <b>Potato</b>               | Land preparation          |                              | <ul style="list-style-type: none"> <li>- Land preparation for planting potato may be started.</li> </ul>  |
| <b>Soybean</b>              | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest mature crop, sun-dry it for 2-3 days then thresh. Maintain required moisture content before storage for seed.</li> </ul>   |
| <b>Groundnut</b>            | Maturity to harvesting    |                              | <ul style="list-style-type: none"> <li>- Harvest the crop when 125 days old (var. ICGS-76) as well as dark tint inside the shell appears.</li> <li>- Make bundles and dry the crops in shade for 2-3 days for curing. Dry it for 4-5 days before storage. Select good quality pods for seeds.</li> </ul>  |
| <b>Blackgram</b>            | Maturity & harvesting     |                              | <ul style="list-style-type: none"> <li>- Harvest mature crops.</li> </ul>   |
| <b>Storage</b>              |                           |                              | <ul style="list-style-type: none"> <li>- Clean and store the seeds in RC-seed bins after proper drying. Check for germination of seeds or fungal growth. After proper drying, store grains/ seeds in well ventilated godowns.</li> </ul>  |
| <b>Horticulture Crops</b>   |                           |                              |   |
| <b>Coriander</b>            | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Select area with bright sunshine rich in organic manure for preparing beds. Treat seeds using Dichlorovos @ 1ml/ litre of water 2-3 days before sowing to protect seeds from ant and other insects.</li> <li>- Apply 200-250 kg of FYM (@ ½ cart load) in 100 sq. m and mix thoroughly to improve soil fertility.</li> <li>- Seed rate is 100g seeds for 100 sq. m.</li> </ul> |
| <b>Spinach beet (Palak)</b> | Land preparation & sowing |                              | <ul style="list-style-type: none"> <li>- Well drained soil is best for growing spinach beet.</li> <li>- Avoid damping off by adding Captan 50WP in the soil of bed. Spaning may be maintained at 10cm x 20-25cm apart.</li> <li>- Seed rate is 100-120g/ 100 sq m. If broadcasting is done, double the dose is required.</li> </ul>   |
| <b>Onion</b>                | Nursery raising           |                              | <ul style="list-style-type: none"> <li>- Apply Captan 50 WP during final land preparation as preventive measures against soil borne diseases.</li> </ul>  |



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**“Integrated Agromet Advisory Services”**

|  |   |                                |  |
|--|---|--------------------------------|--|
|  |   |                                | <ul style="list-style-type: none"> <li>- For 25 sq m area we need ½ kg seeds.</li> <li>- check that the new sprouts/ young plants in nursery beds are not damaged.</li> <li>- 45-60 days old seedlings may be transplanted.</li> </ul>   |
| <b>Cabbage/<br/>Cauliflower</b>  | Nursery   |                                | <ul style="list-style-type: none"> <li>- Sowing of late season crop may be done.</li> <li>- Care should be taken for the young seedlings below 20 days old.</li> </ul>   |
| <b>Tomato/ Chilli/<br/>Capsicum</b>  | Nursery   |                                | Nursery sowing of tomato/ chilli/ capsicum for <i>early/off-season vegetable</i> may be done under polyhouse only, open field is not advisable.  |
| <b>Animal Sciences</b>   |   |                                |  |
| <b>Name of the animal</b>  | <b>Growth stage</b>                               | <b>Disease/ infestation</b>    | <b>Agro-meteorological advisories</b>  |
| <ul style="list-style-type: none"> <li>- Provide clean drinking water to birds and animals. Avoid water logging around the sheds as it may help in mosquito breeding.</li> <li>- Take up measures to reduce flies and mosquitoes population in and around the birds/ animals sheds.</li> </ul> |   |                                |  |
| <b>Poultry</b>   | All susceptible age groups (as and when required) | Coccidiosis                    | Give preventive dose of Coximar @ 1g/ lit of drinking water for 7 days along with glucose.   |
|  |   | Deworming                      | Use Ventrimizole @ 1g in 1 litre of drinking water for 3 days.   |
|  |   | Litter management              | Open the hessian cloth hanging on the wall and cross ventilation must be provided.<br>Stir the litter material regularly.  |
| <b>Sheep/ Goat</b>   | Above 3 months of age (as and when required)      | Tetanus                        | In pregnant animals, inject Tetanus Toxoid @ 0.5ml at 3.5 months of pregnancy.   |
| <b>Pig</b>   | Above 3 months of age (as and when required)      | Skin infection                 | Give Ivermectin ( Indectin tab.) @ 10mg/33kg body weight.  |
|  |   | Coccidial infection (Diarrhea) | Ofloxacin/ Ornidazole (O <sub>2</sub> ) tab twice daily for 5 days.  |
|  |   | Deworming                      | - Deworm using Piperazine citrate @ 30 ml per adult animal once.   |
|  |   | Ticks                          | Add Butox liquid @ 2 ml/ lit of water and use the solution twice a week while brushing the animal.   |
| <b>Cattle / Buffalo/<br/>Mithun</b>  | Above 3 months of age (as and when required)      | Fasciolosis                    | - Give Tolzan-F @30 ml/ 100 kg body weight.  |
|  |   | Deworming                      | Give Nilzan/ Tolzan- F @ 30ml/ 100 kg body weight.   |
|  |   | Ticks/ Wounds                  | Topicure Spray may be used twice daily on the affected parts.  |
| <b>Fishery:</b>  |   |                                |  |
| <b>Type of Farming</b>   | <b>Stage</b>                                      | <b>Management</b>              | <b>Agro-metrological advisories</b>  |
| <b>Carp/<br/>Catfish culture</b>   | Grow – out/<br>nurseries                          |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Ponds should be free from unwanted vegetation and insects and water depth should be maintained at 1.0-1.5m.</li> <li>- Feeds should be provided 1-2 times a day @ 3 % body weight per day.</li> <li>- Well balanced feed fortified with vitamins and minerals should be provided.</li> <li>- Apply Green AQ @ 4litre/ ha or lime @ 200kg/ ha. Maintain good quality of pond water.</li> <li>- To stock fish for next year above practices may be done in small scale.</li> </ul> |
| <b>Paddy cum fish culture</b>  | Water management                                  |                                | <ul style="list-style-type: none"> <li>- Fish harvesting can be started.</li> <li>- Maintained 1.0 m water depth of the trenches in paddy field.</li> <li>- Provide rice bran and mustard oil cake (1:1) as supplementary feed. Avoid insecticide/pesticide application.</li> </ul>  |

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